



# Undergraduate Catalog

## 2022-2023

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# About The University

The University of Texas Permian Basin (UT Permian Basin) is located in the middle of the largest domestic oil field in the continental United States. Over 70 percent of Texas oil production is from the Permian Basin, and approximately 20 percent of the nation's domestic production is here. UT Permian Basin is focused on energy related education, including mechanical engineering with a concentration in nuclear engineering, energy marketing, energy accounting, energy finance and, petroleum engineering. The Permian Basin is the heart of America's energy production this is where students interested in energy can learn how to be successful.

UT Permian Basin's Student Life is active with clubs, organizations and events. The Campus Activities Board (CAB) brings concerts and entertainers to the community. The Wagner Noël Performing Arts Center opened in Fall 2011. The UT Permian Basin's Music Program has state of the art facilities for performance and music education. Also in Fall 2011, the state-of-the-art Science and Technology Building opened, providing superb facilities for biology, chemistry and computer science. The new Student Residence Dining Hall (RDH) provides quality food service, including meal tickets, for UT Permian Basin students. The gymnasium boasts a new weight training facility and wooden floor basketball and volleyball courts. Nearby are walking and rollerblading trails, a duck pond, and an Olympic-sized, outdoor heated swimming pool. The Visual Arts Studio facility provides two and three dimensional studio space that is first rate. Over 500 apartment-style student housing units are available for all classes of students, and the 5,600 square-foot Parker Ranch House provides recreational and study space. It is comprised of a lounge, meeting room and theater, a large commons area with a kitchen, weight room, two computer labs, and a covered, built-in barbecue pit. UT Permian Basin is now a member of the National Collegiate Athletic Association (NCAA) at the Division-II level. Its intercollegiate sports include men's and women's soccer, cross country, swimming, tennis, basketball as well as men's baseball and women's softball and volleyball. The athletic program also supports cheerleading and dance teams. Scholarships are available. In the Fall 2020, the D. Kirk Edwards Human Performance Center opened. This facility combines academic, research and athletic training space to support the growing interest in health-related training and research. The athletic wing serves as the hub for student-athletes with facilities that accommodates the thriving athletic program.

Individuals and businesses support the University through endowments, scholarships, and gifts. UT Permian Basin has a variety of scholarships available, including 31 Endowed Presidential Scholarships, 63 Endowed Scholarships, and a wide number and variety of non-endowed scholarships in virtually every discipline. Some are based on academics, but many are based upon financial need. The University partners with the communities through a variety of programs, including the Small Business Development Center (SBDC) and the Center for Energy and Economic Diversification (CEED). The CEED Building is available for meetings, workshops, and receptions. To find out more about the University or to arrange for a campus tour, call the Office of Admissions at 432.552.2605 or check out the website at [www.utpb.edu](http://www.utpb.edu).

## Statement of Equal Educational Opportunity

No person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under any program or activity sponsored or conducted by The University of Texas System or any of its component institutions on any basis prohibited by applicable law, including, but not limited to, race, color, age, national origin, religion, sex, sexual orientation, or disability. This policy applies to all University administrators, faculty, staff, students, visitors and applicants for employment or admission.

## Mission Statement

As a regional, comprehensive institution, The University of Texas Permian Basin serves a diverse community of students from the region, the state, and beyond. Through excellence in student-centered teaching, learning, research,

and public service, the University cultivates engaged citizens and impacts lives while advancing technology and the public interests of West Texas.

## Approval Requirements and Policies

All curricular requirements, standards, and rules presented in the *Undergraduate Catalog* must be documented as having gone through the appropriate policy-making/amending and approval procedures as defined in the UT Permian Basin *Handbook of Operating Procedures* and the *Academic Affairs Handbook*. New or amended courses, curricula, and academic policies and regulations concerning undergraduate education become effective and are incorporated into the *Undergraduate Catalog* upon review and approval by the respective academic departments and colleges (if applicable), the Undergraduate Curriculum Committee, the Faculty Senate, and the Provost and Vice President for Academic Affairs and, if required, the President, the UT System Board of Regents, the Texas Higher Education Coordinating Board, and the Southern Association of Colleges and Schools Commission on Colleges. The *Undergraduate Catalog* is maintained by the Office of the Registrar which ensures that the Catalog accurately represents the programs and services of the institution.

## SACSCOC Accreditation

The University of Texas Permian Basin is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate and masters degrees. Contact the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of The University of Texas Permian Basin.

## The University of Texas System Board of Regents

### Officers

Kevin P. Eltife, Chairman  
Janiece Longoria, Vice-Chairman  
James C. "Rad" Weaver, Vice-Chairman  
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### **Members with terms set to expire February 2023**

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Regent Christina Melton Crain  
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Regent Nolan Perez, M.D.  
Regent Stuart W. Stedman

### **Student Regent**

Student Regent Neelesh Choudary Mutyala

Each Regent's term expires when a successor has been appointed, qualified, and taken the oath of office.

# The University of Texas Permian Basin

## Administrative Officers

Sandra K. Woodley, President

Susan Ganter, Provost and Executive Vice President for Academic Affairs

Ceasario Valenzuela, Vice President for Business Affairs and CFO

Tatum Hubbard, Chief of Staff and Executive Director of Communication

Wendell Snodgrass, Vice President of Institutional Advancement

Bradley Shook, Vice President of Information Technology and Analytics, and Enterprise Applications Director

Paul Woolston, Vice President for Enrollment Management

Becky Spurlock, Vice President for Student Development and Leadership

Todd Dooley, Director of Athletics

### **Deans**

Rajalingam Dakshinamurthy, Interim Dean College of Arts and Sciences

Steven Beach, Dean College of Business

Larry Daniel, Dean College of Education

George Nnanna, Dean College of Engineering

Donna Beuk, Dean College of Health Sciences and Human Performance

# Learning Resources and Institutes

## Information Technology Services

The Information Technology Services (ITS) provides computer, telephone, networking, and videoconferencing support to UT Permian Basin. Instructional facilities include the campus network, computer classrooms, multimedia classrooms, interactive video classrooms, computer laboratories, and mobile multimedia equipment.

ITS also operates the University data communications network. This high-speed network interconnects buildings, offices, classrooms, and laboratories to provide an integrated communication facility for the Institution. The University network also connects users to the global Internet. The combination of wide-area and local-area network facilities provides high-speed Internet connections to every office, classroom, and laboratory on campus. Both wired and wireless connectivity are available across the campus.

Computer classrooms provide for hands-on instruction using modern computer equipment and software. Multimedia classrooms provide modern multimedia presentation capabilities for faculty and students. Interactive video classrooms provide for real-time, fully interactive videoconferencing capabilities between the UT Permian Basin main campus and a wide variety of distant locations.

## Information Resource Access Policy

The following policy will govern student access to state-owned information resources at UT Permian Basin.

1. Only individuals showing enrollment in the current semester will be provided access to UT Permian Basin information resources. For the sake of this policy, enrollment in any summer term will constitute acceptable enrollment for the entire summer.
2. If a student is involved in research with a faculty member, the student **MUST** enroll in a research course, and pay the appropriate tuition and fees in order to have access to UT Permian Basin information resources.
3. Students who have received a grade of "incomplete" in a prior semester and who require access to U. T. Permian Basin information resources as a legitimate requirement for completing the course will be required to pay the established information resource fees currently in effect prior to being provided information resource access.

## University Counseling and Psychological Services Center

The Student Counseling Center is located in Mesa Building room 4162. Services are available at no charge to U. T. Permian Basin students. Counseling, consultation, psychological evaluations, and educational presentations (by request) are available for students and their families. Office hours are 8:30 AM – 5:30 PM weekdays. Evening times and/or weekends may be available by appointment. The Center is also a training site for advanced graduate students in psychology who are completing the apprenticeship requirement for their master's degrees.

## Center for Energy and Economic Diversification

The Center for Energy and Economic Diversification (CEED) encompasses UT Permian Basin research and extension programs targeted to strengthening the economic development of the region. CEED is housed in a special use facility

which carries its name. It has become the focal point for economic development in West Texas. Programs housed in the CEED include the Economic Diversification Program and the Small Business Development Center (SBDC).

## FalconOnline

The FalconOnline Learning Center, is responsible for coordination and deployment of quality distance education through the use of the most advanced and efficient learning technologies available. In a continuing effort to educate those who integrate technology into their teaching, FalconOnline works with faculty to design, develop, deliver and support undergraduate and graduate courses for more flexible delivery to learners of UT Permian Basin. The Center's services include training and support for face-to-face sessions, online learning, and blended models. The Center promotes distance education initiatives to exchange online courses and programs with other UT System component institutions through the UT Online Consortium.

**Finish @ UT:** The University of Texas Finish@UT program links to various admissions and registrar offices throughout the UT System. Designated contacts at each campus and service support staff of the UT components are available to assist students. To see a full listing of courses and host universities for the online programs, please access the Finish@UT website.

## The Jan and Ted Roden Center for Entrepreneurship

The Jan and Ted Roden Center for Entrepreneurship was officially opened in the Fall of 2004 with private funding from Jan and Ted Roden to foster the entrepreneurial spirit of the students at UT Permian Basin. The Center serves as a focal point for all student-related activities in the area of entrepreneurship. Included within the Center are state-of-the-art multimedia and wireless computer capabilities as well as a library for student research in the areas of small business and entrepreneurship.

**Mission:** The Jan and Ted Roden Center for Entrepreneurship will serve as a vehicle for encouraging the entrepreneurial spirit in our students. First and foremost, the Center will strive to remind our students that self-venturing is a viable option as a career choice.

## Small Business Development Center

The Small Business Development Center (SBDC) program was initiated at UT Permian Basin in 1986 and moved to the CEED facility in 1990. The SBDC and its business consultants work closely with potential and existing business owners to ensure that they are as fully prepared as possible to reach their goals and objectives and are available to assist clients with:

- Business Plan development and improvement
- Finding Sources and Preparing for Financing
- Business Start-up/Expansion
- Marketing Research and Planning
- Financial Analysis
- Ongoing Management Issues

The core objective for the SBDC program is to provide clients with consulting and training. This activity focuses on start-up, expansion and problem solving for small business owners in a sixteen county area. A variety of training seminars covering all aspects of business development is presented throughout the year. The SBDC operates in partnership with the U.S. Small Business Administration.

# John Ben Shepperd Public Leadership Institute

The John Ben Shepperd Leadership Forum began in 1984 with private funding and brought leadership training to young people of Texas through an Annual Forum as well as through high school forums throughout the state. To expand on the Forums' vision, the John Ben Shepperd Public Leadership Institute became part of U. T. Permian Basin in the fall of 1995 with funding from the 74th Session of the Texas Legislature. The John Ben Shepperd Public Leadership Institute is a one small part of Shepperd's legacy of encouraging public leadership and service from Texans of all ages and walks of life.

## J. Conrad Dunagan Library

The J. Conrad Dunagan Library is a modern working university library, providing a full range of high-quality services based on both print and electronic resources to university students, faculty, staff, alumni, and the community, in pursuance of its vision of becoming the preferred destination for innovative knowledge and technology for the diverse university community and the public. The Library seeks to offer user -centered creative, efficient and effective services that develop information skills for lifelong learning citizens. The Library creates and implements strategic initiatives that enhance the utilization of library resources and offer all students and faculty, regardless of their location, the information resources they need in research, discovery, teaching, and presenting their findings.

The 66,000 square feet Library building with a seating capacity of 400 is open Monday through Sunday. It has collaborative learning spaces equipped with a smartboard, bean bag chairs, and whiteboards. Also available are study rooms and carrels which can be checked out to any enrolled UT Permian Basin student, 52 computing workstations, two of which are enhanced with additional software for students with disabilities and printing and scanning facilities. Additionally, there is a computer lab room equipped with 21 computers and overhead equipment from where library instruction sessions are held. The library also has laptops available for students use. Laptops can be checked out from the circulation desk of the library. The library also offers Wi-Fi access and service enabling all registered students roam throughout the building and campus wide.

To easily locate books and articles, the library offers FalconFinder, a one-stop, comprehensive discovery tool to facilitate most research needs to a core print collection of more than 700 of the most widely used academic journals, with another 88,659 journals available full-text by means of on-line electronic databases, as well as 225,000 print volumes and more than 3,000,000 eBooks. Library computing workstations facilitate access to electronic databases, commercial full-text materials and the Internet. Other types of resources are available in Special Collections, particularly items relating to the history of the Permian Basin area and the western region of the country. These materials include items by and about J. Frank Dobie, the papers of regional leaders John Ben Shepperd and J. Conrad Dunagan, manuscripts of significant Texas writers, a Texana history collection, unique collections of regional photographs, and the University Archives.

User needs drive the development and provision of services. Library services range from the routine loan of books and related materials to searching of remote electronic databases, and related document delivery. The Library conducts regular library instruction in person class sessions, online class sessions workshops and online research tutorials for students to optimize usage of the library resources. Librarians are continually online to answer questions and inquiries through a virtual FalconChat service. They can also be reached via email, on phone and in person at the library.

The library offers Interlibrary Loan (ILL) services which extend options for getting items not owned by the Library. Materials requested through this service come from a network of university libraries, community colleges and public libraries. The library accesses books, films and articles for students and faculty via this shared network.

# Academic Calendar

<b>Fall 2022</b>	<b>Regular Session</b>	<b>First Session</b>	<b>Second Session</b>
Registration Opens	4/1	4/1	4/1
Tuition and Fees Due	8/26	8/26	10/21
Classes Begin	8/29	8/29	10/24
Labor Day Holiday	9/5		
First Day of Late Registration	8/29		
Last Day to Add a Class	9/7	8/31	10/26
Last Day to Drop with a Refund	9/14	9/6	10/31
Last Day to Drop without Creating a Record	9/14	9/6	10/31
Last Day to File for Graduation	10/7		
Last Day to Drop or Withdraw	11/4	9/30	11/23
Thanksgiving Holiday	11/23 to 11/25		
Last Regular Class Day	12/8		
Reading Day	12/9		
Final Exams	12/12 to 12/15	10/21	12/16
Semester Ends	12/16	10/21	12/16
Commencement	12/17		
Final Grades Due	12/19	10/28	12/19
<b>Spring 2023</b>	<b>Regular Session</b>	<b>First Session</b>	<b>Second Session</b>
Registration Opens	11/1	11/1	11/1
Tuition and Fees Due	1/13	1/13	3/17
Classes Begin	1/17	1/17	3/20
First Day of Late Registration	1/17		
Martin Luther King Holiday	1/16		

Last Day to Add a Class	1/25	1/19	3/22
Last Day to Drop with a Refund	2/1	1/18	3/27
Last Day to Drop without Creating a Record	2/1	1/24	3/27
Last Day to File for Graduation	3/3		
Spring Break	3/13 to 3/17		
Last Day to Drop or Withdraw	3/31	2/17	4/21
Last Regular Class Day	5/4		
Reading Day	5/5		
Final Exams	5/8 to 5/11	3/10	
Semester Ends	5/12	3/10	5/12
Commencement	5/13		
Final Grades Due	5/15	3/20	5/15



<b>Summer 2023</b>	<b>Whole Semester</b>	<b>First Session</b>	<b>Second Session</b>
Registration Opens	4/1	4/1	4/1
Memorial Day Holiday	5/29		
Tuition and Fees Due	6/2	5/12	6/30
Classes Begin	6/5	5/15	7/3
First Day of Late Registration	6/5		
Last Day to Add a Class	6/7	5/17	7/6
Juneteenth National Independence Day Holiday	6/19		
Last Day to Drop with a Refund	6/21	5/19	7/10
Last Day to Drop without Creating a Record	6/21	5/19	7/10
Last Day to File for Graduation	7/7		
Fourth of July Holiday	7/4		
Last Day to Drop or Withdraw	7/14	6/16	7/29
Last Regular Class Day	8/4		
Final Exams	8/4	6/30	8/4
Semester Ends	8/10	6/30	8/17
Commencement	8/18		
Final Grades Due	8/21	7/7	8/21

# Admissions

Office of Admissions  
UT Permian Basin  
4901 E. University  
Room # MB 1221  
Odessa, TX 79762-0001  
(432) 552-2605

## Application Procedures

Persons seeking admission should apply online using the ApplyTexas Application found at <http://www.goapplytexas.org> or at the UT Permian Basin web site at [www.utpb.edu](http://www.utpb.edu).

To provide better assistance, it is helpful to know if the person is a new or former student, a transfer student, a graduate or undergraduate, an international student and what specific semester they plan to enroll. Potential students should plan to complete all admission requirements two months in advance of their enrollment.

## Freshmen Applicants

For application purposes, a freshman student is defined as "a student enrolling at a college or university for the first time and/or a transfer student who has successfully completed 1-23 semester hours of academic credit at a regionally accredited institution."

In addition to completing the ApplyTexas Application found at <http://www.goapplytexas.org>, the student must submit an official high school and transcript from an accredited school, and transcripts of all college courses attempted (if any). Although the final transcripts showing date of graduation cannot be sent until after high school graduation, a tentative admissions decision, as well as scholarship consideration, can be made on the basis of an official high school transcript listing the courses taken up to the time of application, the grades and the *approximate* class rank.

Applicants are considered freshmen if they have accumulated fewer than 24 semester credit hours (sch) of college credit following graduation from high school. The Office of Admissions recommends that potential freshmen complete the application process in the spring of their senior year in high school or by the following recommended dates:

<b>Fall Semester</b>	<b>Spring Semester</b>	<b>Summer Semester</b>
July 15	November 15	April 15

### **Fall Scholarship Deadline**

April 1

# High School Curriculum Requirements

Applicants must have one of the following:

1. Successfully completed the curriculum requirements for the Distinguished Endorsement High School Program, the Foundation Diploma, or Foundation Diploma with an endorsement.
2. Satisfied the ACT's College Readiness Benchmarks (English -18, Math 22, Reading 22 and Science 23) on the ACT assessment or earned on the SAT assessment a score of at least 480 on the Evidence Based Reading and 530 in Mathematics, in one sitting.

The following courses are recommended to be considered for admission::

English, Language Arts (Not including Journalism) and Reading – 4 credits  
Mathematics – 4 credits (Algebra 1, Geometry, and Algebra II are recommended)  
Science – 4 credits (Biology I, Chemistry I or Physics I are the courses recommend)  
Languages other than English – 2 credits (If two years of a single language are not completed in high school, at least two semesters of a single language may be required at the college level)

The above curriculum requirement may be satisfied if the applicant's official high school transcript or diploma states that the applicant completed the portion of the recommended or advanced curriculum or its equivalent that was available to the applicant, but was unable to complete the remainder of the curriculum solely because courses necessary to complete the remainder were unavailable to the applicant at the appropriate times in the applicant's high school career as a result of course scheduling, lack of enrollment capacity, or another cause not within the applicant's control. Applicants included within this category are those who have a GED, are out-of-state residents, attend private schools, or home schooled. Students graduating from other high school programs should complete a similar college preparatory course of high school study.

## Freshmen Admission Requirements

### Top 25% of the High School Class

All students graduating from an accredited Texas high school who are ranked in the top 25% of their high school graduation class will be admitted unconditionally to UT Permian Basin. Students applying to UT Permian Basin from an accredited high school outside of Texas or who graduated from an accredited Texas school with class rank not in the top 25% must meet the high school unit requirements. Students admitted on this basis must complete the requirements of the Texas Success Initiative (TSI).

#### Test Optional Policy (2022-2023)

The SAT and ACT Exams are optional for the 2022-2023 school year. Test scores will be used as supporting documents to determine admission and scholarship opportunities. Students will be reviewed on a holistic basis focusing on the strength of the high school record, overall grade point average, grades within the course subjects, dual credit work, and additional information (resume and/or extracurricular activities, leadership opportunities, and work experience provided with the ApplyTexas application). The value of standardized tests is valued as a piece of the review process and will be considered alongside the other required application credentials.

## Home Schooled Applicants

The admission requirements for students who have been home schooled are the same as for students who have attended traditional public or private schools. A transcript with all coursework, completed and in progress, is required with the application, test scores, and application fee. Home school transcripts must have a notarized signature of the school official attesting to the authenticity of the record.

## GED Recipients

Freshman applicants with GED certificates must show evidence of meeting the state-mandated curriculum requirements by attaining a score in the 50th percentile or better on each individual GED score.

## Other Admissions Criteria

Applicants who do not meet the state-mandated admission criteria may also be admitted to UT Permian Basin based on a number of criteria or indicators of readiness for college success.

Applicants who have evidence of high school graduation or its equivalent may be admitted by the director based on high school rank, ACT or SAT scores, and other evidence of college readiness, including the following criteria:

- Student's rank in high school class
- Letters of recommendation from educators or professionals who can comment on the applicant's potential for success in college
- Scores on the CLEP, AP, International Baccalaureate, or other nationally recognized standardized examination for college placement
- The SAT Writing exam
- Essays submitted as part of the ApplyTexas application
- Concurrent or dual enrollment college course credit
- Documentation of a rigorous high school curriculum completed
- SAT, ACT, or other standardized test results
- Evidence of leadership in community service or school activities
- Work experience or military service since leaving high school
- Complete an interview with a representative of the Admissions Office prior to consideration for admission; in this interview, the applicant will be asked to present evidence of academic ability
- Performance ranking of the high school

In reviewing a student for admission the Admissions Director will consider: the applicant's evidence of academic ability; whether the applicant is the first generation in his or her family to attend or graduate from college; whether the applicant is bilingual; the applicant's responsibilities while attending school; the applicant's involvement in community activities; the applicant's extracurricular activities; and the socioeconomic background of this family. An applicant may be admitted unconditionally, provisionally or conditionally.

## Conditional Admission

All admitted students must satisfy the TSI requirements and placement testing of the University. Students who do not successfully meet these requirements or who enter with academic deficiencies may be admitted conditionally. Conditionally admitted students will complete a student success plan as one of the conditions for their admissions. To be removed from conditional status, a student must:

- Complete twelve or more general education credit requirements from UT Permian Basin with grades of "C" or better in each course; and
- Complete other enrollment requirements consistent with his or her deficiencies at the time of application.

Failure to meet these requirements may result in an academic probation or dismissal.

## Provisional Admissions Program

Under the UT Permian Basin Provisional Enrollment Program for freshmen, any student graduating from high school may enter UT Permian Basin in the summer or spring semester following her or his high school graduation regardless of his or her high school record or score on the Scholastic Aptitude Test (SAT) or American College Test (ACT) provided that they have graduated from a high school with the required units and subjects as prescribed by the Institution. Students who successfully meet the following standards will be admitted for subsequent semesters or unconditional admissions status. The student must complete in a single semester, or the combined summer terms a total of twelve semester credit hours of general education courses selected from English, mathematics, natural sciences, social sciences, fine arts, and humanities with a semester grade point average in those courses of 2.0 or above.

## Early Admissions Program (EAP)

Students seeking admission to The University Early Admissions Program (EAP) of Texas of the Permian Basin prior to high school graduation must:

- have completed their sophomore year of high school;
- be ranked in the top 25% of their class;
- have a "B" average;
- present a minimum score of 900 on the SAT (CR+M) or 19 on the ACT;
- have the recommendation of their high school principal or counselor; and
- have the approval of their parent or guardian acknowledging an understanding of the program and granting approval for participation

In addition to the requirements that must be met to be eligible to participate in the EAP, the students:

- must submit the ApplyTexas Application form in addition to an EAP application
- must meet TSI requirements
- will pay the regular tuition rates and will be permitted to enroll in college courses
- will be allowed to enroll in up to six credit hours per semester of any freshman/sophomore level courses that are being offered, provided they have the prerequisites

## International Students

For purposes of admission, an international student is defined as "a student who is, or will be, in the United States on a non immigrant student visa." This specifically refers to the Student (F) and Exchange Visitor (J) Visas. International student admission requirements apply but are not limited to international students on F or J visas. To comply with federal laws and immigration requirements international students must be degree-seeking students in order to enroll at UT Permian Basin.

Foreign-born students who are naturalized U.S. citizens or who have immigrant status (permanent resident status) in the United States should note the following:

1. Please allow ample time for receipt, verification and evaluation of any foreign credentials. Regulations for foreign credentials are the same as listed under international student requirements.

2. TOEFL, IELTS, or Duolingo scores or other evidence of communication skills sufficient for classroom work may be requested if the student's first language is not English or if academic preparation was not in English.
3. Financial arrangements required of international students do not apply to resident or naturalized U.S. citizens.

In addition to the general admission requirements for Freshman and Transfer Applicants, the following regulations apply to all international students:

International Applicants should apply for admission using the ApplyTexas Application (electronic) at <http://www.goapplytexas.org> at least 120 days before the anticipated enrollment date and should arrange to have test scores and academic records in the Office of Admission no later than 60 days before the enrollment date. Verification of credentials may also be required. UT Permian Basin will issue immigration papers (I-20 or DS2019) for student visas after all admission credentials have been received and approved. For more information contact the International Student Adviser at (432) 552-2605. There is no application fee (subject to change). All international students are considered nonresident students for tuition and other purposes.

1. **High School or Secondary School Transcripts** - Submit an official record (transcript) of all secondary school work attempted, including subjects taken and grades earned. In addition, an official copy of final examinations taken at the end of the secondary school program, such as school leaving certificates and matriculation exam results should be submitted. If documents are written in a language other than English, complete and official English translations must be provided. Each transcript (mark sheet) should contain a complete record of studies at the institution from which it is issued (i.e. the subjects taken and grades (marks) earned in each subject.) Send these to UT Permian Basin Admissions, 4901 E. University, Odessa, TX 79762-0001.
2. **College/University Transcripts** - Official, certified transcripts of student's academic record (mark sheets) from universities previously attended must be submitted. Both a copy of the official foreign academic record and an official English translation must be included. Moreover, where university-level studies are to be considered for possible undergraduate transfer credit, a syllabus, catalog, or similar bulletin must be submitted which describes the courses in sufficient detail for proper evaluation.
3. **Certification of Financial Support** – Students must submit a completed and signed Certification of Finances form that provides evidence guaranteeing the student's ability to pay expenses while enrolled at UT Permian Basin. This form must be accompanied by documentation supporting the statement in the form of a current letter from a bank or other reliable institution or from the sponsor's employer. (Photo static copies of support statements furnished to meet another university's requirements are not acceptable.) The University has no financial aid available for international students. Additional support can be from family members, a sponsor, or government with supporting documentation and signatures attached to the Certification of Finances Form (available online at [www.utpb.edu](http://www.utpb.edu)).
4. **English Proficiency** – All applicants whose native language is not English, must submit proof of English proficiency by one of the following:
  - a. TOEFL scores or other evidence of communication skills sufficient for classroom work may be requested if the student's first language is not English or if academic preparation was not in English. Test of English as a Foreign Language (TOEFL) scores must be submitted before admission will be granted. Minimum score for admission consideration is 550 (paper-based), 213 (computer-based), or 79 (internet-based). Information concerning the TOEFL may be obtained by writing to: TOEFL, Box 899, Princeton, NJ 08540 (The University of Texas Permian Basin institution number: 6914) or
  - b. The Academic Examination of International English Language Testing System (IELTS) with a minimum score of 6.5 or better. There is no institutional code for UT Permian Basin and so send your scores to UT Permian Basin Admission, 4901 E. University, Odessa, TX 79762-0001 **OR**
  - c. Duolingo English Test (DET) Scores: A minimum DET score of 100 sent directly to UTPB Admissions Office from the testing center or use institutional number 276692 **OR**
  - d. 24 sch of transferable college course work from a regionally accredited U.S. institution to include English 1301 & 1302 (Freshman Composition I & II) with grades of "C" or higher.

5. **Medical Insurance Requirement** - International students on F-1 visas must have medical hospitalization and repatriation insurance for themselves. Insurance for dependents is optional. Students on J-1 visas are required to carry medical, hospitalization and repatriation insurance for themselves and their dependents.
6. **Vaccination Requirement** - All new students and those who are returning after a one semester absence and under the age of 22 will be required to show evidence that they have received the bacterial meningitis vaccination or eligible for an exemption prior to enrolling. The vaccination dose or booster must be during the five-year period preceding and at least 10 days prior to the first day of class or prior to moving into on-campus housing (whichever is applicable). Students taking online courses only (no on-campus based courses) are not required to have the vaccination. Send evidence of the vaccination or qualified exemption to UTPB Admissions, 4901 E University Blvd, Odessa, TX 79762. For more information about the immunization requirements and exclusions, please refer to the Texas Department of Health Services, Immunization Branch (MC 1946), PO Box 149347, Austin, TX 78714-9347.
7. **Employment Restrictions** - Students on F-1 visas do not normally have employment privileges. Government regulations require international students to certify that they have finances deemed sufficient by the University while pursuing their degree without employment. Thus, international students should not expect to support themselves through employment while attending the University. International students may request permission to seek employment while attending the University after they have completed one academic year of study. See the International Student Advisor.
8.  **Holders of F-1 student visas and J-1 sponsored Student Visas** must enroll for a full load of study.
  - a. **Undergraduate students** - Twelve (12) semester hours is the minimum load. If the student does not plan to enroll during the summer sessions, full-time enrollment should be 15 semester hours.
  - b. **Graduate students** - Nine (9) semester hours is the minimum load.
9. **Graduate Studies** - Students requesting admission to graduate programs must comply with all of the above requirements **in addition** to the graduate studies requirements listed in the *Graduate Catalog*.
10. **International Transfers from U.S. Institutions** - Transfer admissions from universities within the United States will be processed only for those students who have completed one full year (24 semester hours) or more of studies. If currently "**in-status**" under an F or J Visa, the United States Citizenship and Immigration Services (USCIS) must be notified when an international student transfers from one U. S. institution to another. Once a student is admitted, UT Permian Basin will provide a **Transfer-In Form** that will need to be completed by the previous U.S. institution and submitted to UT Permian Basin to release the active Visa information for update. However, if a student is "**out of status**" with USCIS, that student should reinstate him/herself with USCIS prior to enrolling at UT Permian Basin. Questions regarding a student's immediate immigration status must be directed to the international student adviser. It is the student's responsibility to obtain the correct visa and to maintain the appropriate immigration status while in the United States. International students should refer to, carefully read, and make sure the conditions of the visa, noted on the back of Form I-20 or DS2019, are understood **before** signing the form.

## Transfer Applicants

For application purposes, a transfer student is defined as "a student who has successfully completed 24 or more semester hours of credit (post-secondary school completion) at a regionally accredited institution prior to transferring to U. T. Permian Basin."

The University is committed to the recruitment and retention of transfer students. Direct Connect and other articulation agreements with community colleges across the state and participation in the Texas Common Course Numbering System simplify the transfer of credit to UT Permian Basin. The University provides a Transfer Admission Counselor who assists with prospective transfer applicants and an Academic Advisor for Transfer Students who assists students with degree plans prior to and after enrollment. The University provides transfer merit scholarships to assist academically qualified transfer students in making UTPB a more affordable choice. This next section outlines the admission requirements and transfer procedures. If any questions arise regarding the transferability of courses, please contact the Admission Office at 432-552-2605 or [admissions@utpb.edu](mailto:admissions@utpb.edu) for further assistance.

# Transfer Admissions Requirements

Transfer students seeking admission, who have accumulated fewer than 24 schs, will be considered for admission under the criteria established for freshman admission (See Freshmen Admission Requirements) and must have a cumulative grade point average of 2.0 or higher in the college-level courses.

Transfer students seeking admission, who have accumulated 24 schs or more from regionally accredited colleges or universities (post-secondary school), must meet the following entrance requirements:

- Submit to the Office of Admissions, official transcripts from all colleges and universities previously attended. All documents submitted become the property of UT Permian Basin and will not be returned to the student.
- Must have a 2.0 grade point average or better on a 4.0 grading system in previous college work.
- Must not be on academic or disciplinary suspension from any previously attended college or university (be eligible to re-enroll in the colleges or universities previously attended).

A transfer applicant from a non-accredited institution may be considered for conditional admission by the Admissions Review Committee. A transfer student admitted conditionally must achieve a grade point average of 2.0 or above for the first 30 hours of course work undertaken at UT Permian Basin and is subject to academic dismissal at any time the grade point average falls below 2.0.

## Former Students

Students who have previously attended UT Permian Basin but have not been enrolled in the immediate past two semesters, must reapply. Those students who have enrolled in another college or university since attending U. T. Permian Basin must submit official transcripts of all work completed.

## Change of Educational Objective

Students who have graduated or are scheduled to graduate from UT Permian Basin and wish to continue enrollment to pursue another educational objective must reapply indicating their new intention. (Example: second bachelor's degree, a master's degree, teacher certification)

## Transient Students

Transient students seeking admission for one semester or summer session provided they are in good standing at the colleges or universities previously attended are welcome at UT Permian Basin. Only a current transcript from the last institution will be required prior to enrolling at UT Permian Basin. A student will not be admissible if they are *ineligible* to return immediately to their former institution. A student granted admission as a transient or as a non-degree student and who decides to pursue a degree at UT Permian Basin is welcome. The applicant must update his/her application and provide official transcripts from all colleges and universities previously attended.

## Academic Fresh Start

Texas residents may apply for admission to UT Permian Basin under the Academic Fresh Start statute (*Texas Education Code, Sec.51.931*). Applicants seeking admission under the Academic Fresh Start statute must, at the time of application, inform the Office of Admissions in writing of their intent and confer with an admission representative about the impact on the overall credits and grades being considered. Under this program, residents are permitted to apply for admission and enroll as undergraduate students and academic course credits or grades earned 10 or more



years prior to the semester for which the student seeks enrollment are not considered for admission purposes. In addition, an applicant who makes the election to apply under this statute will not receive any course credit for courses taken 10 or more years prior to enrollment under Academic Fresh Start. Other standard admissions criteria generally applied to persons seeking admission to the University is not affected by this plan.

If a student who enrolls under this program completes a prescribed course of study, earns a baccalaureate degree, and applies for admission to a postgraduate or professional program offered by a public institution of higher education, the admitting institution will consider only the grade-point average of the applicant established by the course work completed after the student enrolled under this plan (along with other criteria the institution normally uses to evaluate applicants for admission).

## Academic/Disciplinary Suspension at Former School

A student who is not eligible to return immediately to his/her former institution is not eligible to enroll at UT Permian Basin. Normally a student who is dismissed for disciplinary or academic reasons from UT Permian Basin or from another institution will not be admitted.

## Transfer of Credit

### Undergraduate Transfer of Credit

There is no limit to the number of credit hours that may be transferred provided they meet the rules governing transfer of credit listed below. However, students must complete a total of 48 hours of upper level credit and at least 30 of those credit hours must be taken at UT Permian Basin, with the last 24 schs taken in residence, in order to be eligible to receive a degree. In addition, at least 25% of the credits used to meet a degree requirement must be from UT Permian Basin. Course work shown on transcripts from other academic institutions is subject to two separate evaluations:

1. **Admission.** Course work is evaluated to determine the transferable credit for admission. This evaluation is performed by an admissions officer during the admission process.
2. **Applicability toward degree requirements.** Course work is evaluated to determine whether the student's freshman/sophomore courses provide the necessary preparation for upper level courses at UT Permian Basin and to determine the applicability of previous upper level course work toward degree requirements at UT Permian Basin. This evaluation is performed by an academic advisor in the student's chosen field of study.

### Rules Governing Transfer of Credit

1. The college or university from which the credit is to be transferred must be accredited by a regional accrediting agency.
2. Courses transfer to UT Permian Basin on the same level and with the corresponding number of credit hours earned at another institution. D grades may be included in the total number of credit hours to be accepted for transfer to UT Permian Basin; however, D grades will not be accepted to fulfill the requirements of a major, minor or any General Education requirement.
3. When a course has been repeated for credit, the most recent grade and credit hours will be used to determine the acceptance of the course and also to determine if the student meets the minimum grade point average entrance requirement.
4. The following are not accepted by the University toward admission or degree requirements:

- a. Orientation, remedial English, remedial reading courses, remedial mathematics courses, remedial writing (composition).
  - b. General Education Development tests on high school or college level.
5. Sectarian courses in religion are counted for admission purposes but do not apply toward degree requirements. However, courses in the philosophy of religion, the Bible as a literary work or surveys of the Old and New Testament may be applicable as free electives.
6. Vocational and technology courses are not accepted as transfer credit by the Admissions Officer. Under special circumstances some of these courses may be accepted on an individual course basis by the faculty advisor with the approval of the Dean of the School or College.
7. Except for Kinesiology majors, up to 4 credit hours will be accepted in physical activity courses toward admission requirements and total credits toward a degree. Up to 4 upper level credits in ROTC can be accepted in lieu of physical education.
8. Credit for Military Service – course credit for all physical education credit required (4 credits) and for additional schs, not to exceed 12, may be applied to satisfy elective course requirements for the student's degree program for courses outside the student's major or minor if the student
  - a. Graduated from a public or private high school accredited by a generally recognized accrediting organization or from a high school operated by the United States Department of Defense; and
  - b. Is an honorably discharged former member of the armed forces of the United States who has completed at least two years of service in the armed forces or was discharged because of a disability.
  - c. Student must provide proof of eligibility (i.e. DD Form 214 or disability discharge documentation)
9. If UT Permian Basin does not accept lower division course credit earned by a student at another institution of higher education, UT Permian Basin shall give written notice to the student and the other institution that the transfer of the course credit is denied. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Texas Higher Education Coordinating Board (THECB) rules and/or guidelines. If the transfer dispute is not resolved to the satisfaction of the student or the institution at which the credit was earned within 45 days after the date the student received written notice of the denial, UT Permian Basin shall notify the Commissioner of THECB of its denial and the reason for the denial. The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.
10. Correspondence or extension credit if appropriate to the curriculum and entered onto a transcript of a regionally and state accredited college or university, subject to the following limitations:
  - a. The maximum transferable credit is 15 semester hours of correspondence credit, 30 semester hours of extension credit, or 30 semester hours of correspondence and extension credit combined.
  - b. A maximum of six semester hours in the major may be correspondence credit.
  - c. The College of Business does not accept transfer of any upper-level business courses taken by correspondence.
  - d. Transfer credit is presented to the Office of Admissions at the time the student is applying to the University.
  - e. Appropriateness to the degree is evaluated by the faculty advisor for degree purposes when the degree plan is developed.

Prospective students often have questions about transfer of courses. Students are invited and encouraged to seek advice about courses and degree programs from the admissions advisors and, if necessary, the student will be referred for consultation with faculty members in the student's prospective discipline.

# Undergraduate Admission Appeals Process

If an undergraduate student is not admitted through the Admissions Review Process, the student may file a formal admissions appeal through the Admission Committee. The Admission Committee, composed of faculty and staff, reviews undergraduate admissions appeals.

To appeal the admission decision a formal Letter of Appeal should be addressed to the Admission Committee. The letter should cite any compelling circumstances that may have adversely impacted prior academic performance and should detail how the student's current situation will incline the student for future academic success.

The appeal should be submitted within 30 days of the initial denial decision but no later than 30 days prior to the intended semester/term to enroll. The Letter of Appeal may be submitted by e-mail to [admissions@utpb.edu](mailto:admissions@utpb.edu) or sent by mail to: Admission Committee, University of Texas Permian Basin, 4901 E University Blvd., Odessa, TX 79762.

The student will be notified approximately 14-21 days following the receipt of the Letter of Appeal. The decision of the Committee is final and shall be mailed to the address indicated on the original admission application. Application fees are non-refundable regardless of the result of an appeal.

## Credit by Examination

The University recognizes academic achievement of students gained by means other than through performance in organized classes. Students will be given the opportunity to receive credit by special examination in certain courses where proficiency may be practicably determined by examination.

Course credit earned by examination is recorded by the Registrar on the student's transcript, but no grade or grade points are awarded. The student is responsible for having test scores sent to the Admissions Office. The College of Business offers credit by examination in specific business courses. Refer to the College of Business section of this catalog for more information.

There are three separate programs by which a student may earn course credit by examination. These are:

- 1) CEEB Advanced Placement (AP) Examinations which are a part of the Advanced Placement Programs available in a limited number of secondary schools; and,
- 2) specified subject examinations of the CEEB College Level Examination Program (CLEP); and
- 3) the International Baccalaureate (IB) Diploma Program. The student is responsible for taking the tests early enough to allow sufficient time for scores to be reported to the University and processed by the Admissions Office. The deadline for registering to take CLEP examinations at a national testing center is four to six weeks before the scheduled test. Information concerning each of the testing programs follows.

1. **Credit for CEEB Advanced Placement (AP) Program Examinations.** The Advanced Placement Examination is the final examination for a nationally standardized course offered in a limited number of secondary schools under the auspices of the CEEB Advanced Placement Program (APP). The objective of the APP is to allow students to begin work toward college credit while still in high school. Students should check with their high school counselor or principal as to the availability of the APP examinations in their school. The APP is offered once a year during May at participating high schools.

<b>Discipline [UTPB Courses in brackets]</b>	<b>CEEB AP</b>
ART History (3 hrs.)[ARTS 1303]	3
ART History (6 hrs.) [ARTS 1303 ARTS 1304]	4
ART - Drawing [ARTS 1316]	3
Biology (4 hrs.) [BIOL 1306/BIOL 1106]	3
Biology (8 hrs.) [BIOL 1306/BIOL 1106, BIOL 1307/BIOL 1107]	4
Chemistry (4 hrs.)[CHEM 1311/CHEM 1111]	3
Chemistry (8 hrs.)[CHEM 1311/CHEM 1111, CHEM 1312/CHEM 1112]	4
Computer Science A (4 hrs.) [COSC 1430]	3
Computer Science AB (4 hrs.) [COSC 1430]	3
Macroeconomics (3 hrs.) [ECON 2301]	3
Microeconomics (3 hrs.) [ECON 2302]	3
English Language & Composition (3 hrs.)[ENGL 1301]	3
English Literature & Composition (3 hrs.)[ENGL 1302]	3
American/U.S. History I (3 hrs.)[HIST 1301]	3
American/U.S. History I & II (6 hrs.)[HIST 1301, HIST 1302]	4
Calculus AB (4 hrs.)[MATH 2413]	3
Calculus BC (8 hrs.)[MATH 2413, MATH 2414]	3
Physics C ELEC & MAG (4 hrs.)[PHYS 2316/PHYS 2126]	3

Physics C MECH (4 hrs.)[PHYS 2325/PHYS 2125]	3
Government & Politics: U.S. (3 hrs.)[PLSC 2305]	3
Psychology (3 hrs.)[PSYC 1301]	3
Spanish (4 hrs.)[SPAN 1411]	2
Spanish (8 hrs.)[SPAN 1411, SPAN 1412]	3
Spanish (11 hrs.)[SPAN 1411 , SPAN 1412, SPAN 2311]	4
Spanish (14 hrs.)[SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312]	5

2. **Credit for CEEB College Level Examination Program (CLEP) Examinations.**

Under the College Level Examination Program, the University will award credit for only the specified examinations. A student may attempt a CLEP examination at a national CLEP testing center before enrolling and have the scores reported to the University. These examinations are offered monthly at national CLEP test centers. Further information concerning the CLEP tests may be obtained from your high school counselor or principal, or from College Level Examination Program, Box 1821, Princeton, New Jersey 08540.

**Discipline [UTPB Courses in brackets]**

Financial Accounting [ACCT 2301]	50
Biology [BIOL 1306/BIOL 1106]	50
Chemistry [CHEM 1311/CHEM 1111]	50
Principles of Macroeconomics [ECON 2301]	50
Principles of Microeconomics [ECON 2302]	50
College Composition [ENGL 1301]	50
College Composition [ENGL 1301 & ENGL 1302]	58
American Literature [ENGL 2327]	50

History of U.S. I [HIST 1301]	50
History of U.S. II [HIST 1302]	50
Western Civilization I [HIST 2311]	50
College Algebra [MATH 1314]	50
College Mathematics [MATH 1332]	50
Pre-calculus [MATH 2412]	50
Calculus [MATH 2413]	50
Principles of Management [MNGT 3310]	55
Introductory Business Law [BUSI 3324]	55
Principles of Marketing [MRKT 3300]	55
American Government [PLSC 2305]	50
Introductory Psychology [PSYC 1301 ]	50
Introductory Sociology [SOCI 1301]	50
Spanish Language [SPAN 1411 & SPAN 1412]	50
Spanish Language [SPAN 1411 , SPAN 1412, SPAN 2311]	58
Spanish Language [SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312]	66

**3. Credit for International Baccalaureate**

UT Permian Basin awards course credit, as listed below, for the successful completion during high school of the International Baccalaureate Diploma program (IB) and passing the appropriate Standard Level (SL) and Higher Level (HL) exams with a score of 4 or better.

<b>IB Examination</b>	<b>UTPB Course(s) credited</b>
Biology (SL)	BIOL 1306/BIOL 1106
Biology (HL)	BIOL 1306/BIOL 1106 and BIOL 1307/BIOL 1107

Chemistry (SL)	CHEM 1311/CHEM 1111
Chemistry (HL)	CHEM 1311/CHEM 1111 and CHEM 1312/CHEM 1112
Computer Science (SL)	COSC 1430*
Computer Science (HL)	COSC 2430*
Economics (SL)	ECON 2301
Economics (HL)	ECON 2301 and ECON 2302
English (see Modern Languages)	
Environmental Systems (SL)	ENSC 1401
History (HL and SL)	
Americas	HIST 1301
Mathematics	
Analysis and Approaches (SL)	MATH 1314, MATH 1342, MATH 2412 or MATH 2413
Analysis and Approaches (HL)	MATH 1314, MATH 1342, MATH 2412, MATH 2413 or MATH 2414
Applicaitons and Interpretations (SL)	MATH 1314, MATH 1342, MATH 2412 or MATH 2413
Applications and Interpretations (HL)	MATH 1314, MATH 1342, MATH 2412, MATH 2413 ,MATH 2414 or MATH 2415 with suitable syllabus
Modern Languages	
Language A1, A2, and B	
English (SL)	ENGL 1301
English (HL)	ENGL 1301 and ENGL 1302
(w/extended essay, C or better)	
Spanish (SL)	SPAN 1411 and SPAN 1412
Spanish (HL)	SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312
Language <i>ab initio</i> (SL only)	
English (SL)	ENGL 1301
Spanish (SL)	SPAN 1411 and SPAN 1412
Music (SL)	MUSI 1306
Music (HL)	MUSI 1306
Philosophy (HL)	2303

Psychology (SL)	PSYC 1301
Psychology (HL)	PSYC 1301 and one upper level PSYC
Physics (SL)	PHYS 2325/PHYS 2125
Physics (HL)	PHYS 2325/PHYS 2125 and PHYS 2326/PHYS 2126
Social/Cultural Anthropology (SL)	SOCI 1301
Visual Arts (SL)	ARTS 1301
Visual Arts (HL)	ARTS 1301/based on review ARTS 1311, ARTS 1316

## Texas Residency for Tuition Purposes

The Office of Admissions initially determines Texas residency status for all new or re-applying students for the University. The initial decision is based on information provided by way of the admission application and Core Residency Questionnaire required to be completed by the student. Prospective students may seek additional information about residency status with the Residence Determination Official (Registrar) or may also seek information at the College for All Texans website at: <http://www.collegeforalltexans.com>. Search word "Residency." Students considering a reclassification of their residence status may do so with the Residence Determination Official (Registrar). For information on reclassification or residency issues please refer to the Registration and Student Records section of this catalog.

## Military Service Training School Courses

As a Serviceman's Opportunity College (SOC) institution, UT Permian Basin awards credit on a limited basis for military coursework. In order for the credit to be awarded, a student submits to UT Permian Basin an official Army/American Council on education Registry Transcript System (AARTS) or an official Sailor/Marine/ACE Registry Transcript (SMART) listing all military course work completed. The Admission Office evaluates the transcript and determines the transferability of course work. Credit is awarded for military course work that is deemed parallel to academic course work. Credit is not awarded for military experience based upon a Military Occupational Specialty (MOS) or for course work that is solely technical in nature. Awarding of credit for military course work does not guarantee its applicability to a degree at UT Permian Basin. A student who has taken military credits that do not transfer may challenge by examination (i.e., CLEP) or other petition procedure established by your academic department.

## Military Related Withdrawals

In accordance with Section 51.9242 of the Texas Education Code, a student who withdraws from the University in order to perform active military service (not including Texas National Guard Training exercises) will be readmitted for any semester or summer session that begins within a year after the student's release from active service. The student is not required to reapply. However, if he or she has been out for more than two semesters, the student must submit a returning student application to inform the University that the student plans to re-enroll and update demographic and major related information. Readmitted students may be eligible for the same financial assistance provided before the student's withdrawal.

In accordance with section 51.844 of the Texas Education Code, graduate or professional students who withdraw from or defer admission to the University to perform active military service in a combative operation will be readmitted to



their previous program. All previous earned coursework applied towards the program and any standardized test scores previously submitted will be accepted.

## **Dependents of Public Servants Killed in the Line of Duty**

In accordance with Section 51.803(e) of the Texas Education Code, applicants who are considered dependents of certain public servants who were killed or sustained a fatal injury in the line of duty are entitled to automatic admission to the University if the applicant meets any minimum requirements established by the University. Students admitted on this basis must complete the requirements of the Texas Success Initiative (TSI).

## **Policy on the Approval Process for Recruitment Materials and Presentations**

In order to ensure that recruitment materials and presentations are clear and uniform and accurately represent the Institution's practices, policies, and academic programs, the University requires a systematic and documented review and approval process that includes the appropriate campus stakeholders including the offices of Admissions, Graduate Studies, Marketing and Communication, as well as the relevant academic programs/departments/colleges. Both in-house and third party-produced recruitment materials are subject to this policy. UT Permian Basin complies with DoD guidelines and prohibits commissions, bonuses or other incentive payment based directly or indirectly on securing service member enrollments. The University must not provide any inducements to any parties for the securement of enrollment or tuition assistance from military service members. UT Permian Basin also refrains from the use of high-pressure recruitment tactics of any kind such as multiple unsolicited phone calls, e-mails or in-person visits. The University also prohibits same-day recruitment and registration for the purpose of securing military enrollments.

## **Guidelines for Independent Contractors or Agents in Recruitment and Admission Activities**

Independent (third-party) contractors who are engaged in recruitment and admission activities on behalf of UT Permian Basin are governed by the same principles and policies as institutional employees. In addition, independent contractors are responsible for the regular training of their employees to ensure proficiency in University standards and policies. These provisions are affirmed in third-party documents and/or contracts.

# Financial Aid

## Application Process

UT Permian Basin encourages students who wish to attend the University and who do not have the financial resources available to pay the cost of higher education to seek assistance through The Office of Student Financial Aid. The Office of Student Financial Aid operates to assist students seeking a degree or certification from UT Permian Basin in obtaining the necessary resources from federal, state, and private sources.

To obtain financial assistance, the University encourages all financial aid applicants, both graduate and undergraduate, to complete the current year application packet. This packet consists of two basic forms: the Free Application for Federal Student Aid ([www.FAFSA.gov](http://www.FAFSA.gov)) and the General Financial Aid Application. The FAFSA is required for all need-based aid programs, including Federal Title IV grants and loans, Federal Work-Study, and state grants, loans and work-study. The UT Permian Basin application is used to determine eligibility for aid programs administered through the University regardless of eligibility criteria. Some local scholarship funds also rely on data provided through the FAFSA. The Office of Financial Aid strongly encourages all students to complete both the Federal FAFSA and the UT Permian Basin application forms to be considered for all possible aid.

Because availability of funds in most programs is limited, applications should be completed as early as possible each year. Applications completed prior to May 1st will be given priority consideration for available aid. After May 1, applications will be considered for remaining available aid on a first-come, first-served basis. Applications are not considered complete until all required forms are properly filled out and are in the Office of Student Financial Aid. In some cases, students may be required to submit supporting documentation to verify aid eligibility. When students are selected for verification, their applications will not be considered complete until the required supporting documentation is in the Office of Student Financial Aid and all data is correct. Students subject to selective service registration will be required to file a statement that the student has registered or is exempt from selective service registration in order to be eligible to apply for federal or state funded financial aid.

**Please Note:** Application for financial assistance is not an application for admission. Also, awarding of financial aid does not guarantee acceptance to the University.

More information about the financial aid application process and aid programs is available at <https://www.utpb.edu/admissions-aid/financial-aid/index>

## Awarding Process

The Office of Student Financial Aid notifies students of what aid is being made available and how it will be disbursed by means of an electronic award notification for returning students sent to the UT Permian Basin email address provided to students and the home mailing address provided for new students.

The award letter will list one or more programs of assistance in which funds are available to the student. Availability does not guarantee actual release of money. Disbursement of funds depends on grade level and credit hours enrolled. The student must complete any additional program applications (i.e., a student loan application), and meet enrollment and academic progress requirements before any funds can be released.

The award(s) listed in the award notification are referred to as an award "package." The number of awards in the package and the amount of each award are determined by the availability of funds at the time the student completes the application for aid and, for need-based aid, the results of the federal need analysis of the FAFSA application. Any student receiving private 3rd party scholarships or other outside aid should notify the Office of Student Financial Aid as soon as possible so that the award can be included in the student's package. Failure to notify the office of all sources of

assistance could result in an over award and require a reduction in other financial aid. If a refund of aid is provided to the student prior to notification of other financial aid, repayment of funds may be required. Repayment demands can create a severe financial hardship so it is advisable that the student report accurately all sources of assistance.

The University participates in a number of assistance programs to provide an optimum availability of help for students. These programs can be divided into four basic types of financial aid: grants, scholarships, loans, and employment. Grants and scholarships are gift awards that do not have to be repaid. Loans are monies that have to be repaid with interest, usually after completion of the program. Employment is part-time work, usually on campus, that is scheduled around the student's class schedule.

Listed below are brief descriptions of some of the programs in which the University participates. Funding of the different programs varies from year to year as do eligibility criteria and even the name of programs. Federal and state programs are subject to frequent regulatory changes which supersede the information in this catalog. For further information about these programs and other available assistance, contact the Office of Student Financial Aid.

## Scholarships

Scholarships are gift aid that do not have to be repaid. The basic criterion for scholarship eligibility is academic success, although some scholarships also consider financial need or other qualities. Scholarships are often provided through the generosity of persons who have chosen to aid students through the establishment of an endowed scholarship or annual scholarship and eligibility for scholarship awards may be based on criteria outlined by the donor at the time the gift was made. UT Permian Basin encourages students to apply for scholarship assistance through all sources available to achieve the best results. Assistance from UT Permian Basin may be in the form of an institutional award such as the Presidential Plus, Presidential, Transfer Merit, Freshman Merit, and Freshman Grant or through scholarship funds that have been endowed with the University by individuals desiring to help worthy students. Awards for freshman students are made based on high school class rank and other information provided in the admission process. Transfer student eligibility is determined based on academic performance at the previous higher education institutions(s) attended. Continuing students are eligible to apply for scholarships based on academic excellence achieved while attending the University. Most scholarships have a deadline for application with preference being given to those who apply promptly, meet the specified criteria and will be attending the University as a full-time student. In addition to specific qualifications required for various competitive scholarships and fellowships awarded by the University, the committee or officer responsible for selection of a given scholarship or grant may consider the following: whether the applicant is the first generation in their family to attend or graduate from college; the applicant's responsibilities while attending school; the applicant's involvement in community activities; the applicant's extracurricular activities; and the applicant's professional or work experience since leaving high school. More information regarding scholarships is available at [www.utpb.edu/admissions/scholarships](http://www.utpb.edu/admissions/scholarships).

## Grants

Grants are federal, state or institutional funded programs that provide gift aid which does not have to be repaid. Grants are usually awarded based on information received by UT Permian Basin when the student completes the Free Application for Federal Student Aid (FAFSA) or Texas Application for Student Aid (TASFA). More information about grant and other financial aid options is available at [www.collegeforalltexas.com](http://www.collegeforalltexas.com)

## Federal Pell Grant Program

The Federal Pell Grant Program is the largest of the gift aid programs under the Federal Title IV codes. It provides the foundation for all need-based assistance. Financial need is the single criterion used to determine the amount of the

award, but students must also meet certain other stipulations to receive a Pell Grant. Pell grants are available only to undergraduates working on their first baccalaureate degree. To determine eligibility for the Pell grant, the student must first complete the Free Application for Federal Student Aid (FAFSA) and have the information sent to the Office of Student Financial Aid.

## **Federal Supplemental Educational Opportunity Grant Program**

The Federal Supplemental Educational Opportunity Grant Program (FSEOG) is designated to assist students with exceptional financial need. First preference for these awards is mandated by Federal regulation to go to Pell grant recipients. The FSEOG is available only to undergraduates.

## **Texas Public Educational Grant Program**

The Texas Public Educational Grant Program (TPEG) is a state administered program for students. Eligibility is determined using information from the FAFSA or TASFA needs analysis. Priority consideration is given to full-time undergraduate students, but graduate students are eligible also.

## **Texas Grant Program**

The TEXAS Grant program is a state funded program that helps qualified students pay tuition and fees. Criterion is based on the FAFSA needs analysis and completion of the recommended or distinguished high school curriculum. Priority will be given to students who meet the THECB priority model and who have completed a FAFSA or TASFA by the state priority deadline.

## **Hazlewood Act**

The Hazlewood Act for Texas Veterans was established by the Texas State Legislature. It is a tuition and fees waiver program to assist Texas veterans who have exhausted their eligibility for education benefits under the GI Bill® and are not eligible for Federal Title IV grants. Veterans who qualify will receive a waiver of all tuition charges and specified fees. Contact the Office of Student Financial Aid for further information about Hazlewood Act and other eligibility criteria. Hazlewood information can also be found at [www.collegefortexans.com](http://www.collegefortexans.com).

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government web site at <https://www.benefits.va.gov/gibill>.

## **Student Loans**

Student loans are available through a number of federal and state programs. Loans differ in interest rates, terms of repayment, and provisions for in-school deferments. Student loans are not gift aid and must be repaid. Students must be enrolled in at least six hours to receive their loans.

## **Federal Direct Loan Program**

The Federal Direct Subsidized Loan provides guaranteed student loans to students at a low variable interest rate. The Federal government pays the interest on these loans while the borrower is enrolled in school. Eligibility for a subsidized Federal Stafford Loan is determined through the FAFSA need analysis.

All other Federal loans are unsubsidized. This means that the borrower begins paying interest on the loan at the time the loan is made. In most cases, the principal can be deferred during enrollment periods. Unsubsidized loans can be used to meet the Expected Family Contribution (EFC) calculated in the FAFSA need analysis. The EFC is that portion of the student's family income which should be available to help pay a portion of the student's educational costs.

To qualify for loans, students must complete their entrance counseling, Master Promissory Note (MPN), and accept the loan amount. You have the right to accept all or a portion of your loans. Students or parents wishing to cancel loans or disbursements must complete the Cancellation Notice available in the Office of Student Financial Aid within 14 days of receiving their loan disbursement notice. More information about federal loans is available at [www.studentloans.gov](http://www.studentloans.gov).

## **Student Work Study Programs**

The Federal Work-Study Program provides on-campus employment opportunities for students to work as professional assistants, in the library, in student services, and in many other locations throughout the University. Because it is need-based, eligibility is determined from the FAFSA application. The number of hours per week is determined by the student's award amount, but students may not work over 19.5 hours per week. Pay is based on a sliding scale, but no one receives less than minimum wage. Both graduates and undergraduates may receive Federal Work-Study awards. Students can access a list of employment opportunities online at the Career Services website. Go to the University website [www.utpb.edu](http://www.utpb.edu), then locate Career Services (under Student Services), and then search the available list for current work-study jobs.

## **Off-campus Employment**

Students can access a list of off-campus employment opportunities online at the Career Services website. Go to the University website [www.utpb.edu](http://www.utpb.edu), then locate Career Services (under Campus Life), and then search the available list for current off-campus jobs.

## **Regular Student Employment**

Regular Student Employment is sometimes available through individual departments. These part-time jobs are not related to the need-based awards, and the employing department has considerable latitude in meeting personnel needs. Applications are submitted to the Office of Career Services. Students may not work over 19 hours per week.

## **Satisfactory Academic Progress**

Although state and federal policy has established many objectives for student financial aid programs, one clear purpose is to fund only students who meet certain academic standards. Institutions are, therefore, required by law to formulate standards to gauge the progress of students receiving federal and state financial aid by applying both qualitative and quantitative measurements to academic work as well as a maximum time limit for the completion of a degree. The

complete details of Satisfactory Academic Progress is available here. Most private and institutional scholarships have specific academic and enrollment standards required for renewal or continuance of the award, if renewal is allowed. Financial aid renewal policies are provided on the Office of Financial Aid section of the University website. <https://www.utpb.edu/admissions-aid/financial-aid/index>

## **Return of Title IV Funds (R2T4)**

As an institution participating in programs under Title IV of the Higher Education Act of 1965 as amended (hereinafter referred to as the "Act"), UT Permian Basin 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 withdraws from, or otherwise fails to complete the period of enrollment (i.e. receives all failing grades in the semester) 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 student who withdraws prior to that time may be entitled to a refund of tuition, fees, room and board, and other charges that 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, reduced by the amount of any unpaid charges and a reasonable administrative fee not to exceed the lesser of five percent, or one hundred dollars. If the student charges were paid by Title IV funds, a portion or all of the refund will be returned to these programs.

For example, a student withdraws on the 32nd day of classes of a 110 calendar day semester. The tuition and fee charges totaled \$2,754. The student was awarded and received the following financial aid: \$785 Federal Direct Unsubsidized Loan, \$1,141 Federal Direct Subsidized Loan and \$1,387 in Federal Pell Grant. The Return of Title IV Funds policy allows that the student "earned" 32/110 of the federal financial aid requiring the remainder to be returned to the federal aid programs. Under the policy, \$1,778 would be returned to the Federal Direct Loan by UT Permian Basin creating a balance with the University. The remainder of the loan would be repaid under the terms of the promissory note.

## **Texas Higher Education Coordinating Board Assistance**

THECB administers various tuition assistance programs, including programs for teachers and vocational nursing students. Further information may be obtained by contacting the Coordinating Board or by visiting the College for all Texans website <http://www.collegefortexans.com>

# Student Life

## Child Care Center

The UT Permian Basin's Child Care Center provides childcare services for students, faculty and staff. The Center provides an environment and opportunities for children to build the necessary skills for development. Activities are designed to enhance gross motor, fine motor, pre-academic, self-help, music, art, and social skills. Days also consist of indoor and outdoor play with teacher-directed learning activities. Teachers are certified in first aid and CPR. Rates vary depending on the age of the child. Students may qualify for assistance through West Texas Opportunities, depending on their income. Scholarships may be available.

## Career Services

The UT Permian Basin Career Services is located in room MB 2100 on the second floor of the Mesa Building. Career Services provides career counseling, on-campus job placement for work-study and non-work study students, off-campus job opportunities, administers the UTPB Work Co-op Program, the Study Abroad Program and also develops and coordinates numerous programming events throughout the year. Students seeking on-campus or off-campus employment, should visit the Career Services website, call 432-552-3634, or email [careerservices@utpb.edu](mailto:careerservices@utpb.edu).

## Campus Life

### Activities, Organizations, and Student Engagement

The Office of Student Life, located in SAC 210, provides a wide range of services and programs to help UT Permian Basin students develop leadership skills, communication skills, time management skills, and civic engagement. Student Life assists Registered Student Organizations to design and implement activities for UT Permian Basin students to enjoy between, before, or after classes. Also, in the Student Activity Center, run by Student Life, there is a welcoming atmosphere right in the heart of campus for students to relax, study, watch television, or participate in on-campus programs. For more information on any of these areas, call 432-552-2651.

## New Student Orientation

The Office of Student Life coordinates summer and January orientations for all new students. Orientation Leaders (OL) are students who can help new students become familiar with programs, services, and all the resources available on campus. The OLs are volunteers with an expressed interest in helping new students transition to UT Permian Basin and college life. There are intern positions available for OLs who have served for at least one summer. These Interns are called Student Orientation Coordinators (SOC) and they work in the Office of Student Life for approximately 10 months of the year helping to plan Orientation, recruit OLs, and implement the Orientation program.

## Student Senate

The Student Senate of UT Permian Basin is the elected student governing council which represents the interests and needs of the student body, and is recognized by the administration of UT Permian Basin and by the Board of Regents of

the UT System. Executive Officers, in addition to all Senators, except Freshman class Senators, are elected at the end of each spring semester. All Freshman and any vacant Senators are elected in the first 4 weeks of the fall semester. Candidate registration forms are available through the Student Senate page on FalconLink. Students are encouraged to seek elected offices.

The Student Senate makes recommendations to the administration on policies that affect the student body and appoints students to sit on important University committees with faculty and staff members. The Student Senate also sponsors many activities that benefit the University community, the Odessa community, and the Permian Basin area. The Student Senate also provides limited funding for Recognized Student Organizations sponsored events.

## **Campus Activities Board**

The Campus Activities Board (CAB) is responsible for selection, budgeting for, and developing cultural, social and recreational programs for the student body. Students are encouraged to contact the CAB to get involved as volunteer activity programmers and to join the organization. The UT Permian Basin CAB brings in a variety of well-known and aspiring artists and entertainers, sponsors movie night in the Student Activity Center, and takes students to regional and national leadership development conferences. CAB events in previous years have included: movie nights, Glow-light Paint Party, Roller Skating Party, Laser tag on the Quad, Welcome Week Food-truck Block Party, Black History Month events, and ice-skating at MCM Ice.

## **Recognized Student Organizations**

Students are encouraged to join or develop organizations that unite members with a common cause or interest. Such organizations allow students to pursue specialized interests and to have an opportunity to interact with classmates and professors in an atmosphere different from that of the classroom. Involvement in student organizations also provides a means of practicing leadership skills, time management, event planning, and public speaking. The Office of Student Life is responsible for the registration of all Recognized Student Organizations through FalconLink and publishes a guide for the development of clubs and organizations. The Office of Student Life also provides various resources for student organization development, materials, and training on UT Permian Basin policies. Membership cannot be denied on any basis prohibited by applicable law, including but not limited to race, color, national origin, religion, age, veteran status, sex, or disability. Examples of types of organizations registered at UT Permian Basin: academic, social, honor, community service, and religious in nature. Students who are involved in organizations have better grades and are more likely to graduate. In addition, students in organizations develop skills that will help them to be marketable in the workforce.

## **The Student Activity Center**

The Student Activity Center (SAC) is at the heart of the UT Permian Basin campus. Serving as a living room, meeting room and game room for students. During the school year the SAC is open from 7:00 AM - 10:00 PM. Monday through Thursday, 7:00 AM - Midnight on Fridays, and from 10:00 AM - 8:00 PM on weekends. There are quiet study areas that can be checked out, a game room, meeting spaces, televisions and television rooms, and food options. Starbucks is located on the first floor of the SAC and is open Monday through Friday. The Game Room is located on the second floor of the SAC and features pool and ping pong tables, shuffleboard table, Xbox Kinect, gaming rooms with Wiis and Xboxes, arcade games and a television room with DVD player. All games and equipment are free to use and only available to UT Permian Basin students. The SAC is a place to relax, study, and visit with friends between classes and into the evening.



## Volunteer Center

The Volunteer Center serves as a clearing house for volunteerism and service to the UT Permian Basin community and to the communities of Odessa and Midland. The Volunteer Center works with faculty, staff, and community agencies to provide UT Permian Basin students with opportunities for service-learning experiences.

## Intramurals

One of the best ways to get involved with other students at UT Permian Basin is through participating in campus events. One way here on campus to get involved is through UT Permian Basin Intramurals. Intramurals is a great way to meet other students, relieve stress, get involved and get good exercise. Another way to get information regarding intramurals is by visiting the intramural website. The purpose of this page is also to inform you of upcoming events and schedules. Visit this page frequently for up to date information. The purpose of the Intramural Department is to provide various activities for students. Intramural activities are designed to allow for social engagement, educational enhancement, mental and emotional health, beyond the classroom. The of the program is to continuously develop programs and activities to provide something for everyone, and most importantly, supply the opportunity to have fun.

## Gymnasium/Pool Complex

This three-story building is designed for recreational use by students, faculty and staff and their families.

The Gymnasium/Pool Complex consists of four racquetball courts, two volleyball, badminton courts, and three basketball courts. The complex has an exercise room equipped with free weights and a full set of station weight machines. In addition, there is a lighted athletic field, four lighted tennis courts, and 3.5 miles of walking, jogging and skating trails. The Olympic-size swimming pool is the largest outdoor pool in Odessa. It is heated for comfort and has certified lifeguards on duty during operating hours. The pool is open mid-March through mid-October.

## Student Publications

The Office of Student Services supports the dissemination of news and information of student interest and the publication of literary and artistic student work. *The Sandstorm*, an annual magazine-yearbook publication, is a collection of poems, short stories, and essays submitted by students and selected by a panel for publication. The magazine also prints photographs of student art that includes painting, sculpture, pottery, and photography. The editor and staff of this student publication are selected from the student body. Applications for editor are accepted from returning students and incoming students with publication experience. *The Mesa Journal*, the student newspaper for UT Permian Basin publishes news and information regarding the University, its students, and national or international news that affect the University community <https://mesajournalnews.com/>. *The Mesa Journal* provides an opportunity for students to gain newspaper journalism experience while attending the University. The editor and staff for *The Mesa Journal* are selected from the student body.

## Veterans Education Benefits

In compliance with United States Department of Veteran Affairs, the University aids veteran students in receiving Veteran Education Benefits. An official education certifying officer processes the applications and forms needed to certify the attendance of a veteran student at the University. Veteran students seeking additional information may contact the UT Permian Basin Veteran Services department, or may seek veteran information at [www.gibill.gov](http://www.gibill.gov)

## **Veteran Education Counselors**

Texas Government Code 434.302 allows for the Texas Veteran Commission to employ veteran counselors to work with institutions of higher education to promote and support veteran educational opportunities. Veterans who are enrolled in classes should contact the Coordinator of Veteran Services of the certifying officer at UT Permian Basin for more information.

## **Falcon Veterans Lounge**

The Falcon Veterans' Lounge is located on the second floor of the Mesa Building Room #2259. Falcon Veterans Lounge offers:

- A place for veterans and dependents to meet and socialize with other student veterans on campus.
- A place to study, relax or recharge your batteries with refreshments before, after or between classes.
- A place to learn about the benefits, resources, and services available to veterans and dependents offered at the University, Veterans Services, and local organizations.
- Other amenities include access to cable television, microwave, refrigerator and lockers.

For more information contact Veteran Services Office.

## **Falcon Veterans Association**

A student led organization that meets twice a month to serve the next generation of transitioning veteran students from military life to academic life. FVA's purpose is (1) to assist students in overcoming the isolation and disruption that such a transition can cause, by providing a support system in which veteran students and non-military students interact, bond, and discuss relevant issues on professional and social levels and (2) be an advocacy group to improve resources and services available that will make being a veteran student at the UT Permian Basin that much better.

## **Financial Literacy**

UT Permian Basin provides financial literacy and planning to assist students with making smart financial decisions while in college. This information is made available through the office of Financial Literacy during the spring and fall semesters. Money Matters Mondays are monthly seminars provided free on campus. Classroom presentations are available as well as online tools and links to materials. Private individual sessions are also offered for students year round. Students may be referred by a professor or department. Students may make an appointment and walk-ins are also welcome during office hours. All consultations are free and confidential. Students are encouraged to take advantage of these services.

### **Financial Literacy includes information on the following:**

- Investing in undergraduate education and college costs
- Planning for college and finding scholarships
- Understanding needs & wants and setting goals
- Credit basics and managing credit
- Creating a spending plan and monitoring your spending
- Different bank accounts and identity theft
- Solving debt problems and repaying educational loans

- Saving, investing, and managing major purchases
- Employee benefits and compensation

## Services of Students with Disabilities (SSD).

UT Permian Basin provides access to its programs, classes, services, and activities to qualified individuals with disabilities as required by Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990 as amended. Under the ADA and Section 504, a person with a disability is defined as "any person who (1) has a physical or mental impairment that substantially limits one or more major life activities, (2) has a record of such impairment, or (3) is regarded as having such impairment. UT Permian Basin encourages students with disabilities to visit the Office of ADA for Students (MB 4243), where they may receive consultations and request reasonable accommodations (including in appropriate situations classroom adjustments/modifications) under Section 504 and the ADA. To be considered for accommodations and/or services, a student must self-identify as having a disability and provide the Office of ADA for Students (MB 4243) with the required documentation of their disability at least one month before the accommodations and/or services are requested to begin. This information helps determine if a student is eligible for accommodations and, if so, for which specific accommodations.

## Registration Procedures:

To request accommodations, please contact the ADA Office for Students. The office can be reached via email at [ada@utpb.edu](mailto:ada@utpb.edu), via phone on 432-552-4696, and in person in room 4242 of the Mesa Building.

## Required Documentation

All disability documentation must be on letterhead signed by the appropriate licensed educational, mental health, or medical professional who is certified or licensed practitioner in the area for which the diagnosis is made. NOTE: Documentation presented on a prescription pad slip by itself, is unlikely to be sufficient.

In addition, all documents should provide the following information:

- Date of the evaluation;
- Method of evaluation/examination;
- Specific diagnosis;
- Medication - expected effects on functioning, and any side effects;
- Listing and discussion of specific limitations with respect to the disability's impact in academic and academic related environments as it relates to the accommodations requested.

Finally, please note that documentation should not be more than five (5) years old.

Students who provide all documentation and are eligible for services will be formally approved during an intake interview with the disability services office. Accommodations will be determined on a case-by-case basis, based on the documentation, the student's history and specific functional limitations. Students requesting accommodations in the classroom will be provided with a letter prepared by the Office of ADA for Students verifying the need for accommodations to each of their instructors.

## Accommodations

If a student is eligible to receive accommodations, the accommodations will be determined on a case-by-case basis, based on the documentation, the student's history, specific functional limitations, and other information. Students

approved to receive accommodations in the classroom will be provided a letter prepared by the Office of ADA for Students; that letter lists the approved accommodations, and the student should present it to all instructors in which accommodation is desired.

Depending on the situation, the following accommodations and others may be available to qualifying students with disabilities at UT Permian Basin:

- Note takers
- Extra time for test
- Isolated testing rooms
- Enlarged print on computers

If you need other specific accommodations, please consult with the Office of ADA for Students. <https://www.utpb.edu/academics/advising-and-support/testing-center/services-for-students-with-disabilities>

## Student Housing

UT Permian Basin offers a variety of options for students who desire to live on campus. The UT Permian Basin Residence and Dining Hall is the designated housing for incoming freshmen students. Freshmen options in the Residence and Dining Hall include a four bedroom unit, or a two person double occupancy unit. Each floor of the three story Hall has study/Teaming rooms, laundry, and lounges for student convenience. Upperclassmen have the following options in the apartment-style units: four bedroom unit, two bedroom unit, and efficiencies. Most buildings have a central laundry room downstairs for student convenience. The University also offers options for married students who may select from a one bedroom or two bedroom unit.

The housing area is within easy walking distance of the University Mesa Building, the Visual Arts Building, the Library/Lecture Center, and the Science and Technology building.

Each student unit is fully furnished. All Student Housing prices include the cost of electricity, water, sewer, cable, internet, laundry, garbage collection, maintenance, and police security. Student Housing is available on a first-come, first-served basis, and students must be enrolled.

Information regarding student housing may be found at <https://www.utpb.edu/life-at-utpb/housing-and-dining/index> or contact the office for a tour or visit at (432) 552-2743 or by email at [housing@utpb.edu](mailto:housing@utpb.edu).

# Student Health and Safety

## Disciplinary Procedures

UT Permian Basin maintain the rights and responsibilities of citizenship. All students are expected and required to obey federal, State, and local laws, to comply with the Regents' Rules and Regulations, with The UT System, and institutional rules and regulations, with directives issued by an administrative official of the UT System or institution in the course of his or her authorized duties, and to observe standards of conduct appropriate for an academic institution. (Regents' Rules and Regulations, Rule 50101) Any student who engages in conduct that violates the fore mentioned is subject to discipline whether such conduct takes place on or off campus or whether civil or criminal sanctions are also imposed for such conduct.

The official version of the student conduct code can be found on the Associate Dean of Student's web page within the University web pages at <https://www.utpb.edu/life-at-utpb/student-services/dean-of-students/index>. The University reserves the right to restrict the enrollment of any student for disciplinary or academic reasons. According to the Regents' Rules, the Associate Dean of Students has the authority to take interim disciplinary action when the continuing presence of the student poses a potential danger to persons or property or a potential threat of disrupting any authorized University activity.

In all cases, students are afforded due process through a meeting with the Associate Dean of Students and/or a formal disciplinary hearing.

## Disciplinary action could include

- Admonition.
- Warning probation.
- Disciplinary probation.
- Withholding of grades, official transcript and/or degree.
- Bar against readmission.
- Restitution or reimbursement for damage to or misappropriation of Institutional or System property.
- Deferred suspension.
- Suspension of rights and privileges, including participation in athletic or extracurricular activities.
- Failing grade for an examination or assignment or for a course and/or cancellation of all or any portion of prior course credit.
- Denial of degree.
- Suspension from the institution for a specified period of time.
- Expulsion (permanent separation from the institution).
- Revocation of degree and withdrawal of diploma.
- Other penalty as deemed appropriate under the circumstances.

## Grievances/Appeals

Students who have a grievance with another student, faculty, or staff member are encouraged to review the procedures set out on the Associate Dean of Student's web page on the University web pages at <https://www.utpb.edu/life-at-utpb/student-services/dean-of-students/index>. These procedures include information on how to file complaints of sexual harassment and discrimination on the basis of race or disability.

## **Sexual Harassment/Sexual Assault**

UT Permian Basin is committed to the principle that the University's working and learning environment be free from inappropriate conduct of a sexual nature. Sexual harassment in any form will not be tolerated and individuals who engage in such conduct will be subject to disciplinary action. Knowledge, either personal or experience as a witness, of such activity should immediately be reported to the Associate Dean of Students or the Title IX Coordinator.

## **Drugs/Narcotics**

Any student who is guilty of the illegal use, possession, and/or sale of a drug or narcotic on the campus of UT Permian Basin or any other UT System component institution is subject to discipline. If a student is found guilty of the illegal use, possession, and/or sale of a drug or narcotic on campus, the minimum penalty shall be suspension from the institution for a specified period of time and/or suspension of rights and privileges.

## **Intoxicating Beverages**

The use of intoxicating beverages is prohibited in classroom buildings, laboratories, auditoriums, library buildings, museums, faculty and administrative offices, intercollegiate and intramural athletic facilities, and all other public campus areas. State law will be strictly enforced at all times on all property controlled by UT System and its component institutions.

## **Student Medical Plan**

Students have access to medical services contracted by the University. Information about the medical services provider and the plan may be found on the University web site under Current Students, Medical Services.

## **Student Insurance**

Students needing health insurance may obtain information through the University web pages. This can be found under Current Students, Medical Services. International students are required to maintain health insurance which meets UT System coverage requirements.

## **AIDS, HIV, and Hepatitis B Infection Policies**

UT Permian Basin recognizes its responsibility to protect the rights and privileges of students, employees, patients, and the general public against the contact with the spread of infectious diseases. In recognition of Human Immunodeficiency Virus (HIV) and Hepatitis B (HBV) as serious health threats, UT Permian Basin has adopted a policy and procedural steps to protect both the rights and well-being of those students 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 UT Permian Basin 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* which is available on the internet at [www.utpb.edu](http://www.utpb.edu). This policy is applicable to all students of

UT Permian Basin as they pursue their academic (and clinical) endeavors. Brochures with information about AIDS/HIV will be made available to all students on request. Counseling Center. Student can call the Student Counseling Center at: (432) 552-3365 or stop by MB 4162.

## Hepatitis B Vaccination

The Hepatitis B Vaccination requirement applies only to students enrolled in a course of study that involves potential exposure to human or animal blood or bodily fluid.

## Bacterial Meningitis Information

Bacterial Meningitis is a serious, potentially deadly disease that can progress extremely fast, so utmost caution is required. It is an inflammation of the membranes that surround the brain and spinal cord. The bacteria that cause meningitis can also infect the blood. This disease strikes about 3,000 Americans each year, including 100-125 on college campuses, leading to 5-15 deaths among college students every year. Bacterial Meningitis 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. Symptoms include high fever, rash or purple patches on the skin, light sensitivity, confusion and sleepiness, lethargy, severe headache, vomiting, stiff neck, nausea, and seizures. The more symptoms present, the higher the risk. When these symptoms appear, seek immediate medical attention. There is treatment, but those who survive may develop severe health problems or disabilities. Early diagnosis and treatment can greatly improve the likelihood of recovery. For more information, contact your own health care provider, the campus medical services provider, or local Texas Department of Health. Information web sites: [www.cdc.gov](http://www.cdc.gov), [www.acha.org](http://www.acha.org). UT Permian Basin regularly informs students about this information by posting information on-line via our student registration system and posting on the back of our registration cards.

## Bacterial Meningitis Information (New Students)

All new students and those who are returning after a one semester absence and under the age of 22 years of age or younger will be required to show evidence that they have received the bacterial meningitis vaccination or eligible for an exemption prior to enrolling. The vaccination dose or booster must have been received during the five-year period preceding and at least 10 days prior to the first day of class or prior to moving into on-campus housing (whichever is applicable). Students taking online courses only (no on-campus based courses) are not required to have the vaccination. Send evidence of the vaccination or qualified exemption to UT Permian Basin Admissions, 4901 E University Blvd, Odessa, TX 79762. For more information about the immunization requirements and exclusions, please refer to the Texas Department of Health Services, Immunization Branch (MC 1946), PO Box 149347, Austin, TX 78714-9347. A student can opt-out of the immunization requirement by providing an affidavit signed by the applicant or, if a minor, by the applicant's parent or guardian stating that the applicant declines immunization for reasons of conscience.

## Hazing

Hazing in State educational institutions is prohibited by both State Law (Sections 51.936 & 37.151 et seq., Texas Education Code) and by the Regents' Rules and Regulations (Series 50101, Section 2). Individuals or organizations engaging in hazing could be subject to fines and charged with criminal offenses. Additionally, the law does not affect or in any way restrict the right of the University to enforce its own rules against hazing.

### Individuals

A person commits an offense if the person:

1. engages in hazing;

2. solicits, encourages, directs, aids or attempts to aid another engaging in hazing;
3. recklessly permits hazing to occur; or
4. has firsthand knowledge of the planning of a specific hazing incident involving a student in an educational institution, or has firsthand knowledge that a specific hazing incident has occurred, and knowingly fails to report that knowledge in writing to the Associate Dean of Students or other appropriate official of the institution.

## **Organizations**

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

## **Definition**

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

- any type of physical brutality, such as whipping, beating, striking, branding, electronic shocking, placing of a harmful substance on the body, or similar activity;
- any type of physical activity, such as sleep deprivation, exposure to the elements, confinement in a small space, calisthenics, or other activity that subjects the student to unreasonable risk of harm or that adversely affects the mental or physical health or safety of the student;
- any activity involving the consumption of a food, liquid, alcoholic beverage, liquor, drug or other substance that subjects the student to an unreasonable risk of harm or that adversely affects the mental or physical health or safety of the student;
- any activity that intimidates or threatens the student with ostracism, that subjects the student to extreme mental stress, shame or humiliation, that adversely affects the mental health or dignity of the student or discourages the student from entering or remaining registered in an educational institution, or that may reasonably be expected to cause a student to leave the organization or the institution rather than submit to acts described in this subdivision; and
- Any activity that induces, causes, or requires the student to perform a duty or task that involves a violation of the Penal Code. The fact that a person consented to or acquiesced in a hazing activity is not a defense to prosecution.
- Hazing with or without the consent of a student is prohibited by the UT System, and a violation of that prohibition renders both the person inflicting the hazing and the person submitting to the hazing subject to discipline.
- Initiations or activities by organizations may include no feature which is dangerous, harmful, or degrading to the student and a violation of this prohibition renders both the organization and participating individuals subject to discipline.

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

- calisthenics, such as sit-ups, push-ups, or any other form of physical exercise;
- total or partial nudity at any time;
- the eating or ingestion of any unwanted substance;
- the wearing or carrying of any obscene or physically burdensome article;
- paddle swats, including the trading of swats;
- pushing, shoving, tackling, or any other physical contact;



- throwing oil, syrup, flour, or any harmful substance on a person;
- rat court, kangaroo court, or other individual interrogation;
- forced consumption of alcoholic beverages either by threats or peer pressure;
- lineups intended to demean or intimidate;
- transportation and abandonment (road trips, kidnaps, walks, rides, drops);
- confining individuals in an area that is uncomfortable or dangerous (hot box effect, high temperature, too small);
- any type of personal servitude that is demeaning or of personal benefit to the individual members;
- wearing of embarrassing or uncomfortable clothing;
- assigning pranks such as stealing; painting objects; harassing other organizations;
- intentionally messing up the house or room for clean up;
- demeaning names;
- yelling and screaming; and
- requiring boxing matches or fights for entertainment.

### **Immunity**

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

## **Immunizations**

Institutions of higher education may require persons applying for admission to be immunized against diphtheria, rubeola, rubella, measles, mumps, tetanus, and poliomyelitis. The Texas Board of Health may require immunizations against these and additional diseases for registrants at any institution of higher education who are pursuing a course of study in any of the human or animal health professions, and the board may require such immunizations for any registrants in times of an emergency or epidemic in a county where such an emergency or epidemic has been declared by the Commissioner of Health. (Education Code 51.933(b-1))

## **On Campus Student Immunization and Background Check Requirement**

The State requires students, who reside in on-campus housing to provide a certificate signed by a health practitioner evidencing that the student has been vaccinated against bacterial meningitis at least 10 days prior to the student taking up residence in on-campus housing. The University is entitled to check the criminal history record for all students applying for on-campus housing. The University will notify students if this information is used to deny them housing.

# **Student Right-to-Know and Campus Security Act**

In compliance with the Student Right-to-Know and Campus Security Act (the Act) 20 U.S.C. Sections 1092 (a), (e) and (f), as amended, The University of Texas Permian Basin collects specified information on campus crime statistics, campus security policies, and institutional completion of graduation rates. Pursuant to the federal law, alleged victims of violent crime are entitled to know the results of campus disciplinary proceedings concerning alleged perpetrators. UT Permian Basin reports to the campus community on crimes considered to be a threat to students and employees and reported to campus police or local police agencies. UT Permian Basin 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 property owned or controlled by UT Permian Basin and may be supplemented by listing crimes which occur off the campus in buildings or on property owned or controlled by student organizations that are registered by the institution when such statistics are available from local police departments.

UT Permian Basin 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 of 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.)

UT Permian Basin publishes in the annual security report, its policy regarding sex-related offenses, including prevention programs, education programs to promote awareness of sexual harassment, domestic violence, dating violence, sexual assault, and stalking, administrative disciplinary procedures and sanctions for offenders, and counseling and student services for victims.

## **Criminal Background Checks**

Certain programs require students to submit to and satisfactorily complete a criminal background check review as a condition of admission, program completion, licensure, or participation in education experiences. Students who refuse to submit to a background check or who do not pass the background check may be dismissed from their programs. The student is responsible for the costs of the criminal background check.

## **Gang Free Zone**

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

## **Missing Student Notification Policy**

If a member of the University community has reason to believe that a student who resides in on-campus housing is missing, they should immediately notify the UT Permian Basin Police Department at (432) 552-2786. Students residing in on-campus housing have the option to identify confidentially an individual to be contacted by UT Permian Basin in the event the student is determined to be missing for more than 24 hours. Contact information will be accessible only to authorized campus officials and law enforcement and will not be disclosed outside of a missing person investigation. To designate a confidential contact, contact Student Housing at (432) 552-2743.

## Use of Facilities

The property, buildings, or facilities owned or controlled by the University are not open for assembly, speech, or other activities as are the public streets, sidewalks, and parks. The responsibility of the UT System Board of Regents and UT Permian Basin to operate and maintain an effective and efficient system of institutions of higher education requires that the time, place and manner of assembly, speech, and other activities on the grounds and in the buildings and facilities of the University be regulated. No person, organization, group, association, or corporation may use property or building owned or controlled by the University for any purpose other than in the course of the regular programs or activities related to the role and mission of the University, as permitted by the Regent's Rule 80101 and UT Permian Basin rules and regulations.

Most campus buildings and facilities are accessible to members of the campus community and their guests and visitors during normal business hours. Students have access to the buildings during scheduled class sessions including laboratory, library study, and research periods. After normal business hours, including weekends and holidays, all campus buildings are considered closed and secured. Late doors are equipped with electronic locks and closed circuit television cameras. This electronic access control system can allow access to those authorized entry and assigned a code for the system. Exterior building doors on campus are equipped with an electronic alarm, which annunciate at the alarm monitoring company during prohibited hours.

## Student Parking Information

Parking permits are required to park on campus. The parking spaces in all lots are restricted as marked or posted. All underground parking is reserved. Only Student Housing residents are allowed to park at Student Housing. Parking permits are typically purchased during registration and are valid from September through the following August. The permits are marked with an expiration sticker. Permits can be obtained at the UT Permian Basin Police Department Information Center, located in the Mesa Building throughout the school year and are prorated as necessary. In compliance with Texas Education Code 51.207 (b), The University enforces State of Texas vehicle inspection laws for vehicles parking or driving on campus. Disabled veterans may park with either a free University permit or without a University permit (at the discretion of the University) in a disabled parking space for an unlimited period of time.

## Student Travel Guidelines

### Pre-trip Planning

Any time a student organization plans an event or plans to attend an event off campus, special consideration should be given to possible means of travel. Although private vehicles may seem the easiest to coordinate and most cost effective, organizations and their advisors should consider liability issues and safety factors along with cost and ease of coordination. The necessary travel forms must be filed with the Office of Student Life at least one week before your group's travel. Please refer to the Student Life Forms Section on this website. The Office of Student Life will share this information, copies of any travel waivers, itineraries, contact information, etc. with the University Police and the Office of the Vice President of Student Affairs and Leadership. University vehicles may be reserved from the Physical Plant through the Student Life Office. University owned or leased vehicles may only be driven by University employees and only drivers who are university employees are covered by university or system insurance. If private vehicles are used, the owners of those vehicles are entitled to reimbursement for mileage at the state rate, however, be aware that private vehicles and most rental vehicles are NOT covered by university or system insurance. University vehicles are reserved by the entire university community on a first come, first served basis, by Physical Plant so plan ahead. Consider airline or bus transportation for longer trips, where student drivers may be too fatigued from participation in the event to be able to perform as your group's chauffer. Fifteen passenger vans have a high center of gravity and are more likely to tip

over when full than when empty; corners and curves must be taken more slowly and carefully than regular passenger vehicles.

Special event medical insurance is available through Mega Insurance, the same provider of student health insurance for the UT System. Special event insurance is required for all potentially dangerous activities such as camping, hiking, rock climbing, snow skiing, or water sports. It is recommended that special event insurance be used even when not required. The cost is two dollars per student, per day. (If your organization requires any travel, consult the *UT Permian Basin Handbook of Operating Procedures*).

The UT Permian Basin Student Services has funds set aside for group travel to conferences, but those funds are not unlimited. In addition to applying supplemental funds, groups should consider planning fund-raising activities well in advance of travel. Since neither Student Services funds nor fund-raisers are guaranteed monies, organizations should have alternate means of funding travel through dues, individual traveler fees, or other means. Whatever means of travel are selected, your organization should plan for potential emergencies. Individual drivers, student organizations, advisors, the University, and potentially the State of Texas may be sued by injured parties in the event of an accident. Many insurance companies sell individual trip or individual event insurance. This is an excellent way to limit the cost to your club, your advisor, or your university, by purchasing a liability insurance policy. Because individual students also have emergencies, you might consider requiring a trip deposit to be paid by all group members who plan to travel. This will help defray the lost travel and conference registration costs for students who must withdraw at the last minute.

## **Selection of Drivers**

Whether your organization decides to use university vehicles or private vehicles, you should consider how you will choose your drivers. You may decide to ask for state department of motor vehicles' reports on any potential drivers, proof of insurance, proof of mechanical trustworthiness and inspection stickers of private vehicles. Organization officers and advisors may also wish to confer about the trustworthiness of potential drivers from their experience with those students' behavior and judgment. Although it is not required, it is recommended that all UTPB organization advisors travel with their students. When university vehicles are used, only university employees may legally drive them. If private vehicles are used, the owner is entitled to reimbursement for mileage at the state rate, however, no university, state, or system insurance will cover the vehicle, driver, or passengers.

## **Travel Waivers**

Assumption of risk forms are another way to try and reduce the liability of your organization, advisor, and the University. These forms serve primarily to advise potential travelers of the risks involved in any mode of travel, to remind all group members of the necessity for caution while traveling, and to advise travelers of the importance of having their personal insurance up to date in case they are injured while away from home. Travel waivers also remind travelers that the activity being attended is voluntary. Waivers or assumption of risk forms should also ask travelers to list any personal health problems which the advisor or other club members should be aware of, medications required, personal health insurance company and policy number(s), and notification information for next of kin. If student travelers are under the age of 18, a parent or guardian must sign the waiver or assumption of risk form before the minor student will be allowed to travel, and this signature must be notarized. Copies of travel waivers should be left with the Student Life Office and another copy should accompany each vehicle or each group traveling, especially if particular health and insurance information is given on the travel waivers.

## **Safety Education**

Student organization advisors should provide some type of safety meeting to discuss the specific, general, and potential hazards associated with organization travel. This type of safety education should remind individual organization members of their potential liability for injury of others, whether during travel or during specific activities such as rock climbing, camping, athletic activities, etc.

A pre-departure meeting should also be scheduled for your group, so that the advisor or organization officers in charge can inform travelers of the itinerary, costs, expectations of behavior, type of clothing to pack for conference or specific activities during the trip, emergency procedures in case of accident, etc. Advisors should specify expectations regarding alcohol or other drug use during travel and at the event, as well as consideration of other state's laws regarding alcohol or other drug consumption or possession. Remind students that while traveling and while at the planned conference or event, they will be representing their organization, the University of Texas Permian Basin, and possibly the State of Texas.

## Supplies

Advisors and organization members should plan for first aid kits, battery jumper cables, cell phones, credit cards, drinking water, flashlights, maps, radiator coolant, spare tires and related equipment, and emergency phone numbers to have on hand in each vehicle or with each group traveling separately on public transportation.

The UT Permian Basin Police should also be notified of the nature of your travel, routes planned, planned departure and return dates, contact information for your group while traveling (cell phone numbers, hotel or motel phone numbers while at a conference, etc.), and each individual traveling with your group should inform his or her parents, guardians, or next of kin about the nature of travel.

## Contracts

In booking transportation or signing agreements required for conference attendance, lodging at campsites, hotels, or motels, or for any entertainment activities, it is important to remember that students cannot sign contracts on behalf of the university. Any agreements which may require any type of performance, financial or otherwise, on the part of UT Permian Basin must be reviewed by the purchasing department and will be signed by someone in the vice president for business affairs office who is authorized to sign contracts for the University.

In the case of travel emergencies, advisors and organization members must remember that rental car, medical services, or any other unforeseen emergency agreements can only be signed on an individual basis or between your organization and the service-providing agency. The University may refuse to compensate any organization which negotiates a contract without the express written approval of the Vice President for Business Affairs.

## Important Phone Numbers to Take on Your Trip

Office of Student Life	432-552-2650
Senior Associate Vice President for Student Services	432-552-2600
Vice President for Business Services	432-552-2700
University Police	432-552-2787

## Post-travel Evaluation

The organization advisor, drivers, and key organization planners should meet to evaluate all aspects of the organization's trip, but should focus especially on the effectiveness of your safety planning measures.

## Safe Driving Practices

### Use common sense in all unique travel situations

- Obey all traffic laws, especially speed limits.
- All passengers and drivers must wear seatbelts
- No horseplay or racing.
- Plan routes in advance; carpool and caravan where possible.
- Stop for coffee and rest breaks approximately every 90 minutes.
- Do not consume, possess, or transport alcohol or illegal drugs.
- Always have an alert passenger sitting up front with the driver to keep driver awake.
- Do not drive between 12:00 AM (midnight) and 6:00 AM without advisor approval.
- Drivers must pull over if drowsy and allow another organization approved driver take over.

### If an accident or breakdown occurs

- Pull well off the road and post flares or reflective signs.
- Follow all DPS driving rules and safety tips Emergency Procedures.
- Contact your advisor.
- Contact local police and complete accident report.
- Contact insurance company.
- Obtain names and addresses of all accident/incident witnesses.
- Do not make any statements concerning responsibility for accidents.
- Do cooperate with police; they will make determinations of fault.
- Do not offer to pay others for damages.
- Follow all procedures given in university vehicle packets.

## Copyrighted Materials and Peer-to-Peer File Sharing

Unauthorized distribution of copyrighted material may subject students to disciplinary action and civil and criminal penalties. Information concerning the legal consequences of such violations may be found in Title 17 of the United States Code, Circular 92, <http://www.copyright.gov/title17/92chap5.html#504>.

File-sharing programs are not necessarily harmless and in using them you may inadvertently consume excessive network bandwidth, violate copyright law, inadvertently share confidential information or make your computer unsecured. Disproportionate bandwidth usage and copyright infringement are violations of the University's rules for acceptable use of information technology.

Students should be aware that University networks and computers connected to the University networks are monitored by the Recording Industry Association of America (RIAA) and other copyright protection agencies. If you install peer-to-peer file sharing software on your computer you "open" your computer to monitoring by these agencies. If the university receives a notice from one of these agencies alleging a copyright violation associated with your computer, your network connectivity will be limited to local resources. This limitation will continue until you have discussed the situation with the UT Permian Basin Dean of Students. Repeat offenders are subject to disciplinary actions up to and including expulsion from the University.

# Campus Solicitations

No solicitation shall be conducted on any property, street, sidewalk, or in any building, structure, or facility owned or controlled by the University unless permitted by the Regents Rules and Regulations. "Solicitation," as defined in Rule 80103 of the Rules and Regulations of the Board of Regents of The University of Texas System, means the sale, lease, rental or offer for sale, lease, rental of any property, product, merchandise, publication or service, whether for immediate or future delivery, an oral statement or the distribution or display of printed material, merchandise or products that is designed to encourage the purchase, use or rental of any property, product, merchandise, publication or service, the receipt of or request for any gift or contribution, or the request to support or oppose or to vote for or against a candidate, issue or proposition appearing on the ballot at any election held pursuant to state or federal law or local ordinances. The Regents' Rules and Regulations may be accessed at the following Web site: [www.utsystem.edu/bor/rules.htm](http://www.utsystem.edu/bor/rules.htm).

# Fire Safety

UT Permian Basin holds fire safety as one the fundamental parts to providing everyone a safe environment. Everyone at our campus is encouraged to practice safety. If an incident occurs individuals are asked to promptly report the issue to any administrative university official. Information about fire safety policies, procedures, and reporting requirements can be found at <https://www.utpb.edu/university-offices/ehs/index>

## University Fire Warning System

The UT Permian Basin campus fire alarm system is continually monitored by GE Fire Works graphical interface system. This system operates on a fiber optic loop connected to every building fire panel on the UT Permian Basin campus. This system has simultaneous reporting capacity to the City of Odessa Dispatch for the Main campus, City of Midland Dispatch for the Midland Campus and University Police and EH&S via a class B fiber optics network. Environmental Health & Safety oversees a fire and life safety system that has over 1,600 alarm fire alarm initiating devices, 600 portable fire extinguishers, and 41 buildings with sprinkler systems as well as 4 special hazard systems.

## Emergency Alert System

Falcon Alert is an emergency notification service that gives UTPB administration the ability to communicate health, safety, or other emergency information quickly- via text message and email. All students are automatically enrolled in Falcon Alert and may opt out by visiting <https://falconid.utpb.edu/index.php/falconalert>.

## False Reports

A person commits an offense under Section 42.06, Texas Penal Code, if he knowingly initiates, communicates or circulates a report of a present, past, or future bombing, fire, offense, or other emergency that he knows is false or baseless and that would ordinarily: (1) cause action by an official or volunteer agency organized to deal with emergencies; (2) place a person in fear of imminent serious bodily injury; or (3) prevent or interrupt the occupation of a building, room, place of assembly, place to which the public has access, or aircraft, automobile, or other mode of conveyance. The offense under Section 42.06, Texas Penal Code, of making such a false alarm or report involving a public or private institution of higher education is a state jail felony. An individual adjudged guilty of a state jail felony shall be punished by confinement in a state jail for any term of not more than two years or less than 180 days and, in addition to confinement, an individual adjudged guilty of a state jail felony may be punished by a fine not to exceed \$10,000.

# Undergraduate Success Program

The Undergraduate Success Program at UT Permian Basin is responsible for driving retention and graduation rates. The office includes the Honors program, developmental education, the Freshman Seminar, Academic Advising, Graduation Help Desk, high impact practices such as study abroad, Testing Services, Tutoring and Mentoring, Early Alert, EAB predictive analytic software, the Retention Office, and academic probation and dismissal programs. For information on the tools we have available to help you succeed, contact the Dean of Student Success.

## The Success Center at UTPB

The Success Center at UT Permian Basin offers a wide array of academic support services for students, faculty, and staff. Located on the second floor of the Mesa Building, the Success Center is open year round and operates under the supervision of the Dean of Undergraduate Success. To contact the Success Center, please call 432-552-3350 or email [success@utpb.edu](mailto:success@utpb.edu). Services available at the Success Center include tutoring and mentoring on the AVID model, a peer mentoring program designed to provide support to all students, particularly freshmen. AVID is a key component of the Freshman Seminar and offers peer assistance in study skills, class preparation, and academic success.

## Tutorial Services

Tutorial support for a wide variety of courses – from developmental Math to Physics, from Organic Chemistry to Engineering – are also available in the Success Center. Tutors who support students are trained in AVID methodology. They use a student-centered philosophy to facilitate education from the learner's point of need. Most tutorials are available as either appointments or walk-in arrangements. Both group and individual tutorials are available.

Group tutorials are an essential learning tool for more challenging courses, and Supplemental Instruction (SI) and Peer Led Teams Learning (PLTL) are supplied for them. SI and PLTL are located in the Success Center, and faculty and SI and PLTL team members set the schedule and location for study sessions based on the needs of a particular course. The Supplemental Instructor or Peer Leader for most courses are hand-picked by the course instructor, and like the Success Center tutors, they have been trained in AVID to provide the most effective academic support possible.

Writing tutors are also housed in the Success Center. They offer both walk-in and appointment sessions for individuals and groups. These tutors are trained to help all writers improve the quality of their work, whether the writer is a student or a member of the faculty. Based on the simple philosophy that if the writer improves, the writing will follow, these tutors are skilled in facilitating improvements in critical thinking that are essential to intellectual and academic growth. Writing tutors facilitate graduate writing groups, in-class workshops, and campus-wide workshops on topics as varied as how to use style guides to avoiding common grammar errors. They can and do supply custom workshops for instructors who need to be absent but who do not want to lose valuable class time; the tutors cover areas of need associated with writing and research not typically covered in the course. These tutors are certified through AVID.

## Testing Services

Testing Services is committed to providing exceptional, accessible, and comprehensive testing programs for UT Permian Basin students and the community. All tests are administered under standardized conditions that are fair, efficient, and secure. We adhere to all standards set forth by UT Permian Basin. We provide in-house test proctoring services for professors make up exams, community members taking online/correspondence courses, and for students under the Americans with Disabilities Act. Tests administered on campus are Institutional ACT, Texas Success



Initiative Assessment (TSIA), TExES, CLAP, Test of Academic Skills V (TEAS), HiSET (high school equivalency exam), and TCEQ (Texas Commission on Environmental Quality).

## First Year Seminar

First Year Seminar is a required course for all first time, full time freshman. This course serves as an extended orientation for students to become familiar with their campus and the culture of a university. First Year Seminar is conducted through a generalized model to allow students to learn the basics of how to succeed in college that can apply in any major. Instructors for these seminars make sure students know how to access various support services, how to receive advising and schedule classes, how to make best use of financial aid, and make connections with faculty and peers to support their learning throughout their entire college career.

## Retention Office

The focus of the Retention office is keep students enrolled and help them make progress towards graduation. This office runs re-enrollment campaigns for students who have stopped out, does outreach on new program available to students, and hosts events focusing on enrollment and retention. This office also houses our Graduation Help Desk. The Help Desk does outreach to students who are approaching graduation to clear roadblocks and offer support and assistance to students to help them obtain their degrees. This office also does extensive work with our First Time in College (FTIC) cohorts through outreach and support services. Finally, this office also handles all cases of Academic Probation and Dismissal, and any student on dismissal can find the procedure for re-enrollment at: <https://www.utpb.edu/academics/undergraduate-studies/academic-dismissal>

## Developmental Education

Developmental Education is centered in Student Success, and all classes are supported and run through the Office of Developmental Education. Developmental Education helps students with preparation for their TSI exams, runs summer boat camps for the TSI, and helps to sponsor tutoring and mentoring for developmental course. For more information on developmental classes and TSI requirements, please see the Retention and Student Records section of the catalog.

## Honors Program

The University of Texas Permian Basin Honors Program provides a one-of-a-kind experience for academically talented students. As a member of the University Honors Program, students will gain unique opportunities that will enhance their academic experience. Students in the UTPB honors program interact with highly motivated faculty, staff, and peers. Students who register with the University Honors Program and successfully complete the following three-course sequence: UNIV 1301, UNIV 1302, and UNIV 2301, will be given credit for three general education courses: Language, Philosophy, and Culture; Creative Arts; and Government/Political Science. Honors students enrolled in UNIV 1301 are not required to take the Freshmen Seminar course (UNIV 1101). The Honors Program is open to students across all academic disciplines.

# Registration and Student Records

Students who are officially admitted to the University may register for courses. Prior to each academic semester, a registration period is held. Students may find information on registration dates and the dates of other transactions that affect them in the course schedule or may also seek information on the web at [www.utpb.edu](http://www.utpb.edu).

## Registration Process

Any student who is currently enrolled or who has been accepted into the University is eligible to register for classes. Students who have been away from UT Permian Basin more than a year or are new to the University must reapply or apply prior to any registration. Once accepted, students may proceed to the registration process.

## Freshman Registration

To assist freshmen who are entering the University in the fall semester, a special freshman registration is held in conjunction with freshman orientation. Freshmen must participate in orientation to register for classes. Registration is done as part of the orientation event. Dates for freshman orientation are provided for entering freshmen in advance of the scheduled orientation days. New students must complete the admissions process through the Office of Admissions prior to enrolling in classes. (See the Admissions section of the catalog for further details.) Individuals who desire financial aid assistance should contact the Office of Student Financial Aid several months in advance of Freshman Orientation so their aid may be processed in a timely manner. (See the Financial Aid section of the catalog and contact the Office of Student Financial Aid for details regarding financial aid.)

All entering freshmen must enroll in UNIV 1101 (Freshman Seminar) if they have not completed 24 college credit hours prior to enrolling. Freshmen seeking an exemption from the Freshman Seminar should ask at orientation or a time prior to enrolling in classes.

## New Transfer Students

Students who are transferring to the University or who are re-enrolling in the University after an absence of one year or more are permitted to register for classes during registration held prior to the beginning of classes only if they have been admitted or readmitted. This registration period is provided to allow students sufficient time to complete the registration process, including consulting advisors, signing up for classes, and paying tuition and fees. Students who are seeking financial aid and who have not completed this process by the financial aid priority deadline will inevitably be delayed in receiving funds from federal grants and secured and unsecured loans. (See the Financial Aid section of the catalog for details regarding financial aid.) Dates of registration are listed in the semester calendar of the course schedule and online at [www.utpb.edu](http://www.utpb.edu).

## Online Registration

Online registration is available through an online student portal <http://my.utpb.edu/>. To be eligible to web register, students must have met TSI requirements, claim their student ID number, and received clearance from their academic advisor. In addition, the student's account must be cleared of any restrictions or holds. The online portal allows students to view and print class schedules, grade reports, unofficial transcripts billing, financial aid, and transfer courses. In addition, students can also view their current account and financial aid status.

## **Enrollment Verification**

A student may request the Office of the Registrar to report to an outside agency their official enrollment status for a current term. Enrollment certification or verification must be requested by the student and will be processed after the official census date of the current term.

## **Student Advisement**

Students are encouraged to visit with their advisors for degree and class schedule planning. At announced times, all currently enrolled undergraduate students and currently enrolled graduate students who have been admitted to a graduate program or are seeking teacher certification will be permitted to early register for courses in the subsequent term. All newly admitted first time freshman will register for courses at orientation. Students who may need to be assigned a faculty advisor or who want to know who their faculty advisor is should contact the Academic Advising Center ([advising@utpb.edu](mailto:advising@utpb.edu)). Students may not register for conventionally taught partially self-paced courses after the last day of late registration. Students who need to: obtain their advisor's name, be assigned an advisor or be advised through email can reach out to the advising center via [advising@utpb.edu](mailto:advising@utpb.edu). In the e-mail, state the assistance needed, your major and your full name as it appears on your student records. Someone will respond by e-mail within two working days. Because advising by e-mail may require several e-mail exchanges, students should not plan to use e-mail as the sole method of getting academic advice during the last week before classes begin. For continuing students that need to schedule an appointment to either visit with or speak to an advisor they can do so by directly scheduling appointments through the advising website.

## **Changes in Enrollment**

### **Adds (Courses)**

Adding courses is an option to students before the census date of the semester they are enrolled in. Students must initiate an addition or change to their schedule during the time given on the academic calendar.

### **Drops (Courses)**

Dropping courses should not be confused with withdrawing from all courses. In courses taught on a conventional basis, a student may drop the course on or before the last day of the 10th week of classes. Students should consult the academic calendar for the last day to drop. Students may drop courses without permission of the instructor before the census date of the semester they are enrolled in. Students should refer to the course schedule for census date information.

Students must obtain the signature of the instructor whose course they are dropping if they drop the course after the census date and the last day to drop classes as given on the academic calendar for each fall and spring semester. Students may drop a class after the last date to drop only with permission of their Dean, Department Chair, and Academic Advisor.

The student must submit all requests to drop a course in writing to the Office of the Registrar. Faculty, relatives, or friends may not drop or add courses for a student. Drop forms must be completed at the Office of the Registrar prior to the end of the last day to drop. Failure to drop a class which is not being attended will result in a failing grade on the academic record. Students enrolling late in a course should not expect special make-up assistance from the instructor.

## **Six Drop Rule**

Students who enrolled in a Texas public institution of higher education as first-time freshmen in Fall 2007 and thereafter are not permitted to drop more than six course during their entire undergraduate career, (Texas Administrative Code 4.10) unless they show good cause (i.e. severe illness, death of a family member, or active military duty.) This limit includes all transfer work taken at other institutions of higher education. Any courses dropped prior to the census class day will not be considered attempted hours.

## **Withdrawal**

Withdrawing is defined as a student who requests to withdraw from all classes currently enrolled. Students are required to complete a withdrawal form from the Office of the Registrar and obtain the signatures of the Office of Student Accounts and the Student Financial Aid Office. In cases of illness, students may have someone notify the Registrar who will arrange for withdrawal. In addition, an administrative withdrawal can be processed in a situation in which an active duty member of the US armed forces is called to duty. The student must provide documents stating the official date to report to duty. A student who is withdrawing as result of military service may choose the following (1) receive a refund of tuition and fees (2) if eligible, be assigned an incomplete I or (3) at the Institution's discretion, receive a final grade in each course where substantial amount of course work has been completed and mastery of the material is demonstrated. A completed withdrawal form must be submitted to the Office of the Registrar prior to the final date to withdraw. Students should consult the academic calendar for the last day to withdraw from the University. A withdrawal request after the last date to withdraw must be processed via an Academic Petition Form and be approved by the academic advisor of the student, the chair of the department, and the academic dean. Failure to withdraw from the University will result in a failing grade on the academic record for all classes which the student never attended or stopped attending.

A withdrawal request becomes effective the date the completed and signed form is received from the student by the Office of the Registrar. Students should consult the Refund of Tuition and Fees Policy in the Regulations on Tuition and Fees section of this catalog to determine if they are entitled to a refund upon dropping a class or withdrawing from the University.

## **Military Called to Duty**

In accordance with Section 51.9111 of the Texas Education Code, students are excused from scheduled classes or other required activities if the student is called to and participate in required military service for a brief period. The student will be allowed to complete an assignment or exam within reasonable time after the absence.

## **Observance of Religious Holy day**

A student who misses an examination, work assignment, or other required project due to an observance of a religious holy day will be given the opportunity to complete the work missed within a reasonable time after the absence. It is the student's responsibility to provide proper notification to all class instructors for the day of the absence. Although a student who is excused under this policy may not be penalized for the absence, the instructor may appropriately respond if the student fails to satisfactorily complete the assignment or examination.

# Texas Success Initiative

The Texas Success Initiative (TSI) (Texas Education Code 51.3062) is a comprehensive program of assessment, advising, developmental education, and other strategies to ensure college readiness. Students are encouraged to speak to a counselor or advisor about their responsibilities regarding the TSI. For students who are first-time college students, initial testing will be required prior to your first semester. In the fall 2013 semester, the TSI Assessment becomes the only test recognized by the state of Texas for entry into any public college in the state. Previously, a variety of assessments were accepted for initial testing, including THEA and Accuplacer. Test scores from those instruments will still be recognized as long as the student was enrolled in at least one class prior to the start of the fall 2013 semester. TSI test results are valid for five (5) years from date of testing.

## Minimum Passing Standards

### TSIA2 Benchmark Scores

#### English Language Arts and Reading (ELAR)

- CRC minimum score of 945 **and** Essay minimum score of 5
- OR

- CRC score less than 945 **and** a diagnostic score minimum of 5 **and** a minimum essay score of 5
- #### Mathematics

- CRC minimum score of 950
- OR

- CRC less than 950 and a diagnostic level of 6

CRC- College Readiness Classification Test

CRC- Range 910-990

Diagnostic Score- Range 1-6

### TSIA Benchmark Scores

- Mathematics - 350
- Reading - 351
- Writing - Essay Score of 5; Essay Score of 4 and Multiple Choice of 340

## Exemptions/Exceptions

The following students shall be exempt from these assessment requirements. Exempt students will not be required to provide any additional demonstration of college readiness and will be allowed to enroll in any entry-level freshman course:

1. For a period of five (5) years from the date of testing, a student who is tested and performs at or above the following standards that cannot be raised by institutions:
  - a. ACT: composite score of 23 with a minimum of 19 on the English test shall be exempt for both the reading and writing sections of the TSI Assessment, and/or 19 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment;

- b. SAT: a combined critical reading (formerly "verbal") and mathematics score of 1070 with a minimum of 500 on the critical reading test shall be exempt for both reading and writing sections of the TSI Assessment, and/or 500 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment; or
  - c. SAT: Taken after March 1, 2016, a minimum score of 480 evidence based reading and writing and 530 in math. No combined score is required.
- 2. For a period of three (3) years from the date of testing, a student who is tested and performs on the Texas Assessment of Academic Skills (TAAS) with a minimum scale score of 1770 on the writing test, a Texas Learning Index (TLI) of 86 on the mathematics test and 89 on the reading test.
- 3. For a period of five (5) years from the date of testing, a student who is tested and performs at or above the following standards that cannot be raised by institutions:
  - a. on 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 score of at least 3, shall be exempt from the TSI Assessment requirements for those corresponding sections; or
  - b. STAAR end-of-course (EOC) with a minimum score of Level 2 on the English III shall be exempt from the TSI Assessment required under this title for both reading and writing, and a minimum score of Level 2 on the Algebra II EOC shall be exempt from the TSI Assessment requirements for the mathematics section.
- 4. A student who has graduated with an associate or baccalaureate degree from an institution of higher education.
- 5. A student who transfers to an institution from a private or independent institution of higher education or an accredited out-of-state institution of higher education and who has satisfactorily completed college-level coursework as determined by the receiving institution.
- 6. A student who has previously attended any institution and has been determined to have met readiness standards by that institution.
- 7. A student who is enrolled in a certificate program of one year or less (Level-One certificates, 42 or fewer schs or the equivalent) at a public junior college, a public technical institute, or a public state college.
- 8. A student who is serving on active duty as a member of the armed forces of the United States, the Texas National Guard, or as a member of a reserve component of the armed forces of the United States and has been serving for at least three years preceding enrollment.
- 9. A student who on or after August 1, 1990, was honorably discharged, retired, or released from active duty as a member of the armed forces of the United States or the Texas National Guard or service as a member of a reserve component of the armed forces of the United States.
- 10. A non-degree-seeking or non-certificate-seeking student. Any student above who has been determined to be exempt in mathematics, reading, and/or writing will not be required to enroll in developmental coursework and/or interventions in the corresponding area of exemption.
- 11. ESOL Waiver--UT Permian Basin may also grant a temporary waiver from the required assessment for students with demonstrated limited English proficiency in order to provide appropriate ESOL/ESL coursework and interventions. The waiver will be removed prior to the student attempting 15 credit hours of developmental ESOL coursework or attempting entry-level freshman coursework, whichever comes first, at which time the student would be administered the TSI Assessment.
- 12. GED - A minimum score of 165 on the Mathematical Reasoning subject test shall be exempt for mathematics. A minimum score of 165 on the Reasoning Through Language Arts (RLA) subject test shall be exempt for English Language Arts Reading (ELAR).
- 13. HiSET - A minimum score of 15 on the Mathematics subtest shall be exempt for mathematics. A minimum score of 15 on the Reading subtest and a minimum score of 15 on the Writing subtest, including a minimum score of 4 on the essay, shall be exempt for English Language Arts Reading (ELAR).

# Variant Courses

## Developmental Courses

Unless exempt, a student who fails an approved TSI exam must register for the appropriate developmental course as part of a co-requisite model. It is the student's responsibility to provide official scores to the Office of Admissions in order to qualify for an exemption prior to enrollment or expiration of those scores. Additional information concerning TSI, or a list of further exemptions, may be obtained by contacting the Office of the Registrar.

No student may withdraw from a developmental course unless the student is withdrawing from the University. Students will be permitted to withdraw from these courses only if they retake and pass the appropriate TSI section during the semester. Students who fail any portion on the second attempt may be permitted to enroll in a course approved by the Coordinating Board in an attempt to earn a grade of "C" or better. Students who earn a "C" or better in appropriate course will be considered to have satisfied the TSI requirement.

The following are approved courses which are used for meeting TSI requirements (Identified by TCCNS):

- Writing: ENGL 1301 (Composition I); or ENGL 1302 (Composition II).
- Reading: HIST 1301, 1302 (U.S. History); ENGL 2321, 2322, 2323 (British Literature); ENGL 2331, 2332, 2333 (World Literature); ENGL 2326, 2327, 2328 (American Literature); PSYC 2301 (General Psychology); or GOVT 2301, 2302, 2305, 2306 (American Government).
- Mathematics: MATH 1314 (College Algebra); MATH 1332, 1333 (College Mathematics); or a more advanced mathematics course for which any of the above are prerequisites.

Courses numbered 0301, 0398, 0399, 0400 are developmental in content. These courses may be required of students who do not pass all portions of the TSI exam or whose institutional placement test scores indicate a need for developmental preparation. Developmental courses do appear on the student's transcript, but do not provide credit toward a degree. Students receiving financial aid should consult the Office of Student Financial Aid concerning the effect of developmental coursework on academic progress.

The TSI rules and regulations shown in this catalog are those in effect when this catalog went to print. TSI rules and regulations are subject to change due to action by the Texas Legislature.

## Placement Testing

There are three areas tested for proper placement into course: chemistry, math, and writing. Tests are used for students who are TSI exempt.

- **Chemistry:** Students who plan to take CHEM 1311/1111 (Science, Nursing, and Engineering majors) must take the chemistry diagnostic test which is available only on this campus in the PASS Office. The test takes about 1 ½ hours to complete.
- **Math:** Students are placed into math classes based on a combination of their high school class percentile and SAT or ACT scores.
- **Writing:** Students are placed into English classes based on the results from the Directed Self Placement Test (DSP).

Freshmen are required to take the assessment instrument before they may register. Students whose assessment scores are not high enough must register for remedial courses in the area they did not meet the standard score. For additional information contact the PASS Office at 432-552-2630.

## **Auditing Class (Non-credit course registration)**

UT Permian Basin allows a person who does not desire course credit to register for classes on a noncredit basis. This is known as auditing a course. Students auditing classes are permitted to attend classes and participate in the course discussions, studio, and laboratory work and other class activities but are not required to complete work outside the classroom or sit for exams. The fee for auditing a course is \$35 per credit hour plus any applicable lab fee. This fee covers course participation, library use, and computer use privileges similar to those of students. It does not cover parking or provide access to student services covered by the student service fee or the medical services fee. No credit is earned through auditing the class and a student may not earn credit through examination for audited courses. Student may not audit contract study, self-paced, thesis, and research or practicum courses. Students applying only for the purposes of auditing a course are not required to meet all admission requirements.

However, students that have been denied admission are not eligible to enroll to audit. For further information on admissions for auditing purposes, contact the Admissions Office. Registration for auditing courses can occur only during the late registration period. It is on a space available basis only and requires the instructor's permission. Students should contact the Office of the Registrar for audit enrollment forms and procedures.

## **Independent Study (Contract Study)**

Several types of independent study are available at UT Permian Basin. These are referred to as Contract Study Courses, which include readings, special problems, selected topics, library research, and certain other learning activities. Before students may register for these courses, plans for the proposed study showing the objectives, procedures to be used for evaluation, and other plans must be written and approved by the appropriate instructor and by the Department Chair or Dean. Contract studies are not intended to substitute, by content, for courses listed in the catalog.

## **Lifetime Sports**

Every student is encouraged to enroll in lifetime sports. A maximum of four credits may be applied as electives toward requirements for a bachelor's degree. Some programs have additional limitations on the use of lifetime sports credit. Please see major requirements for details.

## **Self-Paced Instruction (SPI)**

Self-paced instruction (SPI) is often referred to as personalized instruction in master learning. Self-paced courses are designed to permit students to complete courses as rapidly as they are capable, or to take more time if needed to master them. SPI usually requires no formal class meetings, although in many courses the instructor meets once a week with a group of students desiring additional interaction or discussion. Most student-instructor contact in SPI is on an individual basis. Students enrolled in SPI courses are expected to interact with the professor either individually or in a group situation at least once each week or as often as a given course requires.

Self-paced courses are offered in many fields or degree programs. Students in SPI courses are provided with a course outline including instructions for study, activities to complete, sources of information, and other necessary instructions. Students may visit the instructor as often as needed to discuss and clarify the course material and to answer questions. When students believe they have mastered a unit within a SPI course, they may take the appropriate test.

If students pass at the prescribed level, they proceed to the next unit. In some courses, if students do not pass the unit, they may restudy it until they pass the test. Each unit must be passed in sequential order, so when all units and tests are successfully completed, students should have mastered the course material.



Since students may not need to attend class in SPI courses, they may begin such courses at any time up to four weeks prior to the end of the semester. Established deadlines for adding or dropping courses published in the course schedule refer to courses taught only on a conventional basis and not to courses taught on an SPI basis. SPI courses may not be dropped during final examination week. Although students have the option of continuing a SPI course into a succeeding semester, they are encouraged to complete it during the same semester for which they register. Students who do not complete the course in one semester's time may receive a grade of Z (satisfactory work in progress) and must reregister during a subsequent semester when the course is offered and pay tuition for the course if completion is desired. Partially self-paced courses are administered on the same basis as regular courses. The registration, drop/add, withdrawal, course completion and grading for partially self-paced courses are administered as all other conventional classes.

## Course Instruction Mode

- Online Courses are those in which more than 85 percent of the planned instruction occurs online/virtually (asynchronously) when students and faculty are not in the same place. A fully online course is one in which mandatory in-person meetings occur no more than 15% of the planned instructional time.
- Remote Courses are ones in which students, while not required to physically come to campus to attend in-person classes, are required to "attend" virtually/remotely (synchronously) during scheduled days and times, with students expected to log in and participate in the lecture via video conferences.
- Hybrid Courses are courses in which the majority (more than 50% but less than 85%) of the planned instruction occurs when students and instructor(s) are not in the same place. This form of instruction offers a mix of on-campus/in-person and remote/online/electronic learning.
- HyFlex Courses are those which, like hybrid courses, offer a mix of on-campus/in-person and remote/online/electronic learning. In these courses at least 50% of the planned instruction occurs when students and instructor(s) are in the same place.
- Face-to-Face/In-Person Courses are those in which more than 85 percent of the planned instruction occurs when students are in the same place with an instructor(s).

## Definitions of Academic Terminology

BA	Bachelor of Arts
BAAS	Bachelor of Arts in Applied Sciences
BBA	Bachelor of Business Administration
BFA	Bachelor of Fine Arts
BM	Bachelor of Music
BS	Bachelor of Science
BSN	Bachelor of Nursing
BSW	Bachelor of Social Work
ExCET	Examination for the Certification of Educators in Texas
FERPA	Family Educational Rights and Privacy Act

GPA	Grade point average
PASS	Programs Assisting Students Study
SCH	Semester credit hour(s)
TCCNS	Texas Common Core Numbering System
TEExES	Texas Examinations of Educator Standards
TOPT	Texas Oral Proficiency Test
TSI	Texas Success Initiative

## Requests for Access to Student Records (FERPA)

The Family Educational Rights and Privacy Act (FERPA), 20 U.S.C. Sec.1232g, and the Texas Public Information Act, Texas Government Code Sec. 552.001 et seq., are respectively a federal and state law that provide for the review and disclosure of student educational records. In accordance with these laws the University has adopted the following policy. Individuals are informed of their rights under these laws through this policy which is included in *The University Handbook of Operating Procedures* and the *University Catalog*.

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

- to appropriate University officials who require access to education records to perform their legitimate education duties
- to officials of other schools in which the student seeks or intends to enroll, upon request of these officials, and upon the condition that the student be notified and receive a copy of the record if desired;
- to federal, state, or local officials or agencies authorized by law;
- in connection with a student's application for, or receipt of, financial aid;
- to accrediting organizations or organizations conducting educational studies, provided that these organizations do not release personally identifiable data and destroy such data when it is no longer needed for the purpose it was obtained;
- to the parents of a dependent student as defined in Section 152 of the Internal Revenue Code of 1954, provided a reasonable effort is made to notify the student in advance;
- in compliance with a judicial order or subpoena, provided a reasonable effort is made to notify the student in advance unless such subpoena specifically directs the institution not to disclose the existence of a subpoena;
- in an emergency situation if the information is necessary to protect the health or safety of the student or other persons;
- to an alleged victim of any crime of violence, the results of the alleged perpetrator's disciplinary proceeding may be released;
- to a parent of a student regarding the student's violation of any Federal, State, or local law, or of any University rule or policy, governing the use or possession of alcohol or a controlled substance if the University determines that the student has committed a disciplinary violation with respect to that use or possession and the student is under the age of 21 at the time of the disclosure to the parent.

The University will release information in student education records to appropriate University officials as indicated in (15.111) above when such records are needed by administrators, faculty, or staff in furtherance of the educational or business purposes of the student or University.

A record of requests for disclosure and such disclosure of personally identifiable information from student education records shall be maintained by the Registrar for each student and will also be made available for inspection pursuant to this policy. If the Institution discovers that a third party who has received student records from the Institution has released or failed to destroy such records in violation of this policy, it will prohibit access to education records by that third party for five (5) years. Respective records no longer subject to audit nor presently under request for access may be purged according to regular schedules.

## Directory Information

At its discretion, the University may release Directory Information which shall include:

- name;
- local and permanent postal addresses;
- email address;
- telephone number;
- place of birth;
- field of study; dates of attendance;
- enrollment status;
- student classification (example: freshman, first year law school student)
- degrees awarded;
- certificates and awards (including scholarships) received;
- photographs;
- participation in officially recognized activities and sports;
- weight and height of members of athletic teams; and
- most recent previous educational agency or institution attended.

Students may have any or all Directory Information withheld by notifying the Office of the Registrar in writing each semester during the first 12 days of class of a fall or spring semester, the first 4 class days of a summer semester, or the first three days of any quarter. Request for non-disclosure will be honored by the Institution for only the current enrollment period; therefore, a request to withhold Directory Information must be filed each semester or term in the Office of the Registrar.

## Access to File

Upon written request, the University shall provide a student with access to his or her educational records. The Vice President for Student Affairs and Leadership has been designated by the Institution to coordinate the inspection and review procedures for student education records, which include admissions files and academic files. The Vice President for Business Affairs has been designated by the Institution to coordinate the inspection and review procedures for student financial files. Students wishing to review their education records must make written requests to the Vice President for Student Affairs and Leadership listing the item or items of interest. Students wishing to review their financial files must make written requests to the Vice President for Business Affairs listing the item or items of interest. Education records covered by the Act will be made available within 45 days of the request. A list of education records and those officials responsible for the records shall be maintained at the Office of the Registrar. This list includes:

- **Academic Records:** Office of the Registrar (Admissions/Registrar): College, Division, Department, and Faculty Offices
- **Student Services Records:** Student Activities Office: Director of Student Activities, Student Services: The Vice President for Student Affairs and Leadership
- **Financial Records:** Business Office: Vice President for Business Affairs, Financial Aid Office: Director of Financial Aid

Educational records do not include, subject to specific limitations of FERPA regulations (34 CFR Part 99):

- financial records of student's parents or guardian;
- confidential letters of recommendation which were placed in the educational records of a student prior to January 1, 1975, and confidential letters and confidential statements of recommendation placed in the student's educational file;
- records after January 1, 1975, if the student has waived, in writing, their right to inspect and review these letters and statements and those letters and statements are related to the student's admission to the University;
- application for employment, or receipt of an honor or honorary recognition;
- records of instructional, administrative, and educational personnel which are kept in the sole possession of the maker and are not accessible or revealed to any other individual except a temporary substitute for the maker;
- records of law enforcement units;
- employment records related exclusively to an individual's employment capacity;
- medical and psychological records;
- thesis or research papers, which may be made available to interested members of the public;
- records that only contain information about an individual after the individual is no longer a student at the Institution.

## Challenge to Record

Students may challenge the accuracy of their educational records. Students who believe that their educational records contain information that is inaccurate or misleading or is otherwise in violation of their privacy may discuss their problems informally with the Registrar. If agreement is reached with respect to the student's request, the appropriate records will be amended. If not, the student will be notified within a reasonable period of time that the records will not be amended, and they will be informed by the Vice President for Student Affairs and Leadership of their right to a formal hearing.

Student requests for a formal hearing must be made in writing to the Vice President for Student Affairs and Leadership who, within a reasonable period of time after receiving such requests, will inform students of the date, place, and the time of the hearing. Students may present evidence relevant to the issues raised and may be assisted or represented at the hearings by one or more persons of their choice, including attorneys, at the student's expense. The hearing officer that will adjudicate such challenges will be appointed by the Vice President for Student Affairs and Leadership in non-academic matters and by the Provost and Vice President for Academic Affairs in academic matters. Decisions of the hearing officer will be final, will be based solely on the evidence presented at the hearing, will consist of the written statements summarizing the evidence and stating the reasons for the decisions, and will be delivered to all parties concerned. The education records will be corrected or amended in accordance with the decision of the hearing officer if the decision is in favor of the student. If the decision is unsatisfactory to the student, the student may place, with the educational records, statements commenting on the information in the records or statements setting forth any reasons for disagreeing with the decision of the hearing officer, or both. The statements will be placed in the education records, maintained as part of the student's records, and released whenever the records in question are disclosed. Students who believe that the adjudications of their challenges were unfair or not in keeping with the provisions of the Act may request in writing, assistance from the President.

## Copies of Educational Records

Students may have copies of their educational records and this policy. These copies will be made at the student's expense at rates authorized in the Texas Public Information Act except official transcripts will be \$7.00 charged at the current rate approved as a University fee. Official copies of academic records or transcripts will not be released for students who have a delinquent financial obligation or financial "hold" at the University.

## FERPA Complaints

Complaints regarding alleged failures to comply with the provisions of the FERPA may be submitted in writing to the Family Policy Compliance Office, U. S. Department of Education, 400 Maryland Avenue SW, Washington, D.C. 20202-5920. Notice: Students are advised that research papers authorized by undergraduate students may be made available to interested members of the public.

## Residency Reclassification

The Registrar has been designated as the Residence Determination Official for the University. The official will make the determination of a student's residence status based on information provided by the student on the reclassification residency student packet and any additional information provided by the student.

A student has a right to apply for reclassification of residency for tuition purposes after a continuous 12 month period of living in Texas. To be considered a resident of this state the student must meet one of the following:

- have established a domicile in this state not later than one year before the census date of the academic term in which the person is enrolled in an institution of higher education; and maintained that domicile continuously for the year preceding that census date;
- be a dependent whose parent established a domicile in this state not later than one year before the census date of the academic term in which the dependent is enrolled in an institution of higher education; and maintained that domicile continuously for the year preceding that census date;
- have graduated from a public or private high school in this state or received the equivalent of a high school diploma in this state; and maintained a residence continuously in this state for the three years preceding the date of graduation or receipt of the diploma equivalent, as applicable;

A nonresident student may be reclassified as a resident if employment or personal factors or actions indisputably indicating a permanent intention to reside in the state. Students who would like to be reclassified are required to apply for reclassification with the Residence Determination official in the Office of the Registrar. Students must submit all required forms and any additional supporting documents for the purpose of reclassification in the allotted time of a forthcoming semester. Any reclassification materials received after the official census date (12th class day fall or spring semesters; or 4th class day in summer semesters) will be processed for the next semester. International students living in the United States under a visa permitting permanent residence, and undocumented immigrants who are permitted by Congress to adopt the United States as their domicile while they are in Texas must wait a period 12 months from which their residence in United States was granted before they may apply for reclassification of in-state status.

It is the responsibility of the student to notify the University of their intent to be reclassified and to contact the Residence Determination Official (Registrar) 30 days prior to enrolling in an approaching semester. Residency packets can be obtained online at <https://www.utpb.edu/academics/registration/office-of-the-registrar/become-an-in-state-resident>

## **Independent Student (Texas Resident)**

A student who is 18 years of age or older, moves to the State of Texas, and is gainfully employed in Texas for 12 months prior to enrolling in an institution of higher education is considered an independent student and is entitled to a residency status of in-state unless the individual is in Texas for some purpose other than establishing residence in the state. A student who enrolls prior to having lived in Texas 12 months will be classified as a non-resident student.

## **Dependent Student (Texas Resident)**

A student who is claimed as a dependent on their parent's/legal court appointed guardian's income tax, and who provide the sufficient documentation to support the residency claim of the parent, may be entitled to a residency status of in-state if their parent or legal court appointed guardian will prove their residency in Texas in support of the dependent student. Residency reclassification forms can be accessed by visiting the Office of the Registrar or the forms may be printed from <https://www.utpb.edu/academics/registration/office-of-the-registrar/become-an-in-state-resident>. Students may access the the THECB website for rules governing Texas residency.

## **Course Schedule**

A course schedule is printed prior to each enrollment period. Students will have the opportunity to view all available courses being offered for a forthcoming semester. The schedule of classes not only provides students with information on registration but additional information needed by students, such as dates and times of courses, registration dates, semester calendar , advising information, financial aid information and the location of courses. The University also provides this information online on the UT Permian Basin website: [www.utpb.edu](http://www.utpb.edu).

## **The Class Day**

The class day begins at 8:00 AM and ends at 10:00 PM. UT Permian Basin offers courses in the late afternoon and evening as part of the regular offerings. Students enrolling in these courses register in the same manner as students who are taking only daytime courses. Full-time students may have both day and evening classes. For information of class times, please see the Schedule of Classes printed version or web schedule.

## **Transcript**

Transcripts of grades earned at UT Permian Basin are available in the Office of the Registrar. The Family Education rights and Privacy Act requires that the student sign all transcript requests and releases. For details on obtaining transcripts contact the Office of the Registrar at 552-2635 or online. Students will be responsible for all fees related to obtaining an official copy of a university transcript.

# Academic Regulations

## University Authorized Absences

In accordance with authorized University activities (such as athletic events or scholastic activities that are officially sponsored by the University) notification by a designated individual of the activity will be made for all student participants of that activity. It is the student's responsibility to notify each instructor of his or her absence should an examination or work assignment be missed on the day of absence. An instructor is under no obligation to accommodate a student who is absent or misses work assignments without prior notification and make-up arrangements.

## Academic Petition

An academic petition is used (1) to gain approval for an exception to any scholastic regulation or (2) to document an official interpretation of an academic regulation. Forms for petitions are available at department and college offices. Normally, the student's advisor's signature and other faculty signatures, as appropriate, are required before the dean of the student's major field will approve or not approve a petition. Petitions regarding teacher certification requirements require the signature of the Dean of Education in addition to the student's major dean signature. The Dean's decision is the final step in the petition process.

## Academic Appeal (Grade Appeals)

A student who wishes to dispute an assigned grade should first submit a written appeal to the instructor and seek resolution via a conference either in person, by telephone, or virtually with the instructor.

The student should consult with the Student Rights Advocate and may consult with the advocate throughout the duration of the appeal process. The Student Rights Advocate is appointed by the Dean of Students:

- If, within five (5) working days of the conference with the instructor, the student believes that the issue has not been addressed or disagrees with the outcome of conference, the student should initiate and register a formal written complaint through the University Complaint Resolution Portal. The written complaint will be routed to the relevant Department Chair or supervisor (if the instructor does not have a Chair or if the instructor is the Chair) who will schedule a conference either in person, by phone, or virtually with the student.
- If, within ten (10) working days after the meeting with the Department Chair or supervisor, the student believes the grade appeal has not been addressed or disagrees with the outcome of the conference with the Department Chair or supervisor, the student should file a written appeal directly (not via the University Complaint Form Portal) with the appropriate academic Dean and seek an appointment either in person, by telephone, or virtually with them.

Upon receipt of the written appeal, the Dean will schedule a meeting in person, by telephone, or virtually with the student. Following the appointment with the student, the Dean will investigate the matter.

The Dean shall respond to the appeal within (10) working days of the meeting with the student unless an investigation requires additional time in which case the circumstances should be documented. The decision of the Dean shall be final.

# Attendance

Class attendance is required for those students taking developmental coursework (classes numbered 0398 and 0399), students enrolled in freshman level courses, international students, students receiving veteran's education benefits, and students receiving federal Title IV financial aid. In addition, some disciplines and many instructors have class attendance requirements. Students should consult with the individual instructors concerning class attendance requirements for the course.

The University may void the registration of a student who has not attended any classes or attended two or fewer days of classes on or before the twentieth class day. Faculty shall report to the Vice President for Student Affairs and Leadership or other designated University officials any student who is not attending classes as required above. The Office of Student Services shall seek to contact the student through their official campus contact information and permanent address information in the Registrar's records. If the student cannot be contacted or has only attended two or fewer days of classes on or before the twentieth class day the University may void the student's registration. After receiving written notification from the Vice President for Student Affairs and Leadership or other designated official to void a student's registration, the Registrar will send a registered letter notifying the student of the University's action and appeals process under the *Handbook of Operation Procedures*, part five, section 2. If a registration is voided, tuition and fees will be refunded minus the matriculation fee and other non-refundable fees. Students should also be aware that the voiding of their registration may leave them with a financial liability to the University or Financial Aid Provider for financial aid paid to them for expenses other than tuition and fees. The Office of Financial Aid will send a student, whose registration is voided a notification of obligations owed.

# Classification

Students at UT Permian Basin are classified in accordance with the number of semester hours earned. Hours earned are interpreted as hours passed at UT Permian Basin plus hours accepted in transfer from other institutions and/or credit by examination.

- Freshman: One who has earned fewer than 30 hours.
- Sophomore: One who has earned 30 hours but fewer than 60 hours
- Junior: One who has earned 60 hours but fewer than 90 hours
- Senior: One who has earned 90 hours or more.
- Degreed or Post Baccalaureate: One who has earned a bachelor's degree or higher and is enrolled as an undergraduate.

# Concurrent Enrollment

Tuition credit is available if three undergraduate hours or fewer are being taken at UT Permian Basin while concurrently enrolled at an area community college. The student must first register at the area college and bring a receipt to UT Permian Basin. The University's tuition charge will be the difference between the student's total tuition at each of the institutions, but never less than the hourly rate at UT Permian Basin.



## **Concurrent Second Bachelor's Degree (150 SCH minimum)**

A student desiring to complete two bachelor's degrees concurrently (showing both major degrees on the transcript and receiving two diplomas) must complete all requirements of each degree program including a minimum of 30 semester credit hours more than required in one of the degree programs. Students electing to major in two fields must meet the specified requirements for each major. No one course can be counted in the semester credit hours in more than one major. For example, the minimum is 120 semester credit hours to graduate with a bachelor's degree in one field, the student will need 150 semester credit hours to graduate with two bachelor's degrees (i.e., 120 semester credit hours for the first and 30 more semester credit hours for the second). One diploma is issued for each degree.

## **Second Bachelor's Degree (30 SCH minimum)**

A student already holding a bachelor's degree from U. T. Permian Basin or another accredited institution and seeking to earn a second bachelor's degree from UT Permian Basin must complete a minimum of 30 semester credit hours from UT Permian Basin of which at least 6 semester credit hours must be upper level credits in the student's major field. The student must fulfill all the requirements of the major including prerequisites even if the number of semester credit hours exceeds 30. Furthermore, the student must also complete 6 semester credit hours in American government (including Texas constitution) and 6 credits in American history. These hours will be included in the 30 semester credit hours if they are earned at UT Permian Basin.

## **Double Major (120 SCH minimum)**

Students electing to major in two fields must meet the specified requirements for each major and no one course can be counted in the semester credit hours in more than one major. In certain cases this may require completion of additional course work. In addition, each college or school must certify that the student has satisfied all major, as well as college or school requirements. No minor is required when completing two majors. Only one degree will be shown on the diploma and only one diploma will be issued. Both majors will appear on the transcript. Not all degrees allow for double majors.

## **Certificates**

Some academic units designate a set of classes that constitute a certificate in that academic unit. The requirements of the certificate are set by the faculty of the academic unit offering the certificate, not by the academic unit of the student's major field of study. When an academic unit offers a certificate in a field of study, it is open to all students in the University regardless of school of origin. Students who seek to earn a certificate will be expected to meet the normal prerequisites in courses making up the certificate and students must earn a "C" or better in all courses making up the certificate. Major or minor required semester credit hours and courses may be used (or stacked) to satisfy certificate and major or minor requirements simultaneously. Students may use a single course to satisfy more than one certificate requirement. No transfer credit can be counted toward a UT Permian Basin certificate. Students should consult with an advisor in their major field of study as they select and plan certificates.

# Course Credit Load

Each semester credit hour at UT Permian Basin represents a commitment on an average of three hours of "out of class" preparation and one hour of class attendance (or its equivalent) per week. For example, enrolling in a three semester credit hour class commits the student to a total of twelve hours of work per week. Students who are employed or who have family responsibilities are especially encouraged to bear this commitment in mind and to seek guidance from their academic advisors in determining a suitable academic schedule. For undergraduate students without substantial family or work responsibilities, the normal course load during the fall and spring semesters are 15 semester credit hours. Students making satisfactory academic progress may take 18 semester credit hours without permission of the Dean; more than this requires permission of the Dean. Only in rare cases will students be permitted to enroll for more than 21 semester credit hours in a fall or spring semester and then only with the written approval of their Dean. Maximum class load during the summer sessions is 18 semester credits.

The foregoing applies to conventionally taught courses. In courses offered on a self-paced instruction basis, additional credits may be taken, particularly when courses are involved for which a portion of the work has already been completed at the time of registration. This is subject to approval by the student's academic advisor and the Dean.

All international students must enroll as full-time students during the fall and spring semesters (12 semester credit hours minimum for undergraduates and 9 semester credit hours minimum for graduates). The student is not required to enroll in any courses during the summer terms. The international student may not drop or withdraw from courses at any time if such action would result in less than a full-time course load in the fall and spring semesters. International students, residing in the US on an F-1 visa may only count three hours of online courses toward their full time enrollment requirement.

# Experiential Learning

Unless they have had appropriate work experience, candidates for the bachelor's degree are encouraged to complete a planned program of experiential learning. Experiential learning, referred to in various departments as "Authentic Involvement," "Internship," or "Practicum," normally occurs during the senior year, usually in the final semester, and provides students an opportunity to apply their academic learning in a work environment under the supervision of a faculty member and the direction of a supervisor in the work situation. Experiential learning requires a preplanned and written program of the experiences for the student and a procedure for evaluating these experiences. Typically, students enroll in experiential learning for 2-3 semester credit hours, which requires 5-10 hours of work per week for one semester or the equivalent.

# Grading Policies

Grades at UT Permian Basin distinguish between levels of student achievement. They represent, in abbreviated form, the instructor's judgment of the student's academic performance. In addition, they provide a basis for certifying completion of all degree requirements. They may serve as predictors of future performance in graduate and professional study. The grades approved for use at UT Permian Basin are as follows:

- |                          |  |
|--------------------------|--|
| A = Superior achievement | S = Satisfactory                               |
| B = High achievement     | U = Unsatisfactory                             |
| C = Average achievement  | I = Incomplete (not available for SPI courses) |
| D = Minimal achievement  | Z = Acceptable progress (SPI only)             |

F = Failure to achieve minimal standard

PR = Work in Progress (masters thesis/project)

+ = High grade

W = Dropped class or withdrawal from the University

- = Low grade

Only grades of A, B, C, D, U and F are included in computing grade point average (GPA): A = 4; B = 3; C = 2; D = 1; F = 0. Pluses and minuses are awarded at the instructor's discretion but are not computed in GPA. The grades of I, W, S, Z, and PR are not computed in GPA. The grade of U is calculated as an F grade. Grades of Q, QP, and QF were used to denote courses dropped, dropped/passing, and dropped/failing from 1973 through summer semester 1985. The grades of Q and QP were not computed in the GPA. The grade of QF calculated as an F grade.

## Incomplete "I" Grade

An "I" grade or Incomplete grade is reported when students have not met all requirements of a course by the end of the semester and the instructor considers the allowance of additional time to complete course requirements. When reporting an "I" grade, the instructor must complete an Incomplete Report or contract specifying: (1) the deficiency or the additional work to be done; (2) the length of time allowed to complete the work (no later than the last class day of the subsequent semester, summer excluded); and (3) the grade that would have been earned "as is" at the time the course ended. If a grade of "I" is to be assigned to a student the incomplete contract requires both the signature of the student and the instructor. Failure to have this document completed and signed by the appropriate individuals will void the contract. In addition, a punitive grade of "F" will be assigned per administrative function of the Registrar (1) if an incomplete contract has no "as is" grade given and contract has expired; or (2) the Official time allotted for the contract has expired. If a student is in contract for a specific course, the student cannot register for the same course. If the contract has expired or the student has been assigned an administrative "F," then they will be allowed to register for the course.

## Self-Paced Instructed Grade (Z Grade)

A "Z" grade is defined as a grade given to specific Self-paced Instructed courses. A grade of "Z" is reported when a student has not completed all necessary requirements to complete the course. The grade of "Z" is specifically given to SPI course types and should not be considered a normal grade to be given for any other type of course. A grade "Z" is non-punitive in considering a student's GPA and consequently will not affect the totaling of the student's GPA. A student who has received a grade of "Z" has the opportunity to re-register for the same course to complete the course. The "Z" grade is permanently kept on records in compliance with both federal and state requirements for an academic students record. If the student re-takes the course there will be no grade replacement. While the Z grade carries no penalty, a high number may reflect poor schedule management. Z grades remain part of the permanent student transcript.

## Access to Grades

Students can view their semester grades, as well as their unofficial transcript, through their student portal. Final grades for classes may be viewed as soon as it is posted to the transcript, unless the student has a financial or disciplinary hold on their account. These type holds must be cleared before students have access to their grades.

## Honor Roll (President's and Dean's)

Each semester students who have exhibited outstanding academic achievement will be honored. Students who have a semester grade point average (GPA) of 3.50 to 3.99 will be listed on the Dean's Honor Roll. Those students who have

achieved a semester grade point average of 4.00 will be included on the President's Honor Roll. This honor will be publicized and noted on the student's academic transcript. In addition to the grade point average requirement, candidates for the Dean's Honor Roll and the President's Honor Roll must meet the following criteria: (1) they must be seeking a first bachelor's degree only; and (2) they must have earned a minimum of 12 semester credit hours at U. T. Permian Basin. The last 12 semester credit hours of work for part-time students, is the basis for calculating the GPA for the Dean's and President's honor roll. If the last cumulative 12 semester credit hours must include a previous semester, all courses from the previous semester will be used in the calculation

## Academic Probation and Dismissal

Students are placed on academic probation under three circumstances. First, some students are conditionally admitted. These students are placed on academic probation as a condition of admission. Second, students with 12 or more semester credit hours attempted and a cumulative grade point average (GPA) of lower than 2.0 will be placed on academic probation. Third, students re-admitted to the university following an academic dismissal are placed on academic probation. While on academic probation, the Dean of Undergraduate Success or his designee will develop a plan for the academic success of the student. Students on academic probation will be required to comply with the terms of this plan. A student will be released from academic probation when his or her cumulative grade point average rises to at least 2.0. In cases of extenuating circumstances, students may appeal their probation to the Dean of Undergraduate Success.

Students are academically dismissed from the University if, while on academic probation, they attempt courses during a semester and both the semester GPA and the cumulative GPA are lower than 2.0. A full Summer term will be treated as a regular fall or spring semester for these purposes. A student will also be academically dismissed from the University for failing to comply with the terms of academic probation.

- The first academic dismissal is for five months;
- A second academic dismissal is for twelve months;
- A third academic dismissal is for thirty-six months;
- A fourth and any subsequent dismissal is for a period of not less than thirty-six months.

To be readmitted after a dismissal, students must address a letter to the Dean of Undergraduate Success presenting evidence that they are likely to succeed in an academic program. Readmission requires approval by the Dean of Undergraduate Success, who will base their decision on the evidence that the student is likely to succeed in an academic program. Students should contact the Dean's office for full details on re-admission prior to sending their letter. In cases of extenuating circumstances, students may appeal their academic dismissal to the Dean of Undergraduate Success.

## Repeat Policy

All courses taken at U. T. Permian Basin, whether passed or failed, remain a permanent part of the student's record. If a course is repeated, the last grade earned, not necessarily the highest grade, will be the grade used to compute the cumulative grade point average (GPA) for all purposes. Repeated courses will be counted only once for credit. Repeatable courses are different from repeating a course. A student whose hours may no longer be submitted for formula funding because it is the same or substantially similar to a course that the student previously attempted for two or more times at The University of Texas Permian Basin will be charged a higher tuition rate equal to nonresident tuition rates. (See "Three-peat" section of the catalog)

## **Satisfactory Scholastic Progress**

Students are considered to be making satisfactory scholastic progress when they are carrying an approved schedule of classes, are not on probation, are not failing a course, and have a GPA of at least 2.0 in both the current semester and in their overall average to date. Students receiving financial aid should refer to "satisfactory academic progress" in the Financial Aid section of the catalog for information specific to academic progress requirements for financial aid students.

## **Syllabi Website**

In order to assist students in locating information about courses, course syllabi and faculty curriculum vita are made available on the required links page of the UT Permian Basin.

## **Textbooks**

Students have available access to purchase required or recommended textbooks through our University affiliated bookstore. A student of this institution is not under any obligation to purchase a textbook from a University affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer. Textbook ISBN and retail price information is provided by the University bookstore for every required and recommended textbook and supplemental material. For information about books and other supplies visit the bookstore website.

## **Writing and Conversation**

Every student pursuing a bachelor's degree should be able to write the English language and to hold a conversation in English.

# Undergraduate Scholastic Requirements

To earn a baccalaureate degree from The University of Texas Permian Basin a student must:

1. Complete the total number of semester credit hours established for the chosen degree program. The minimum number is 120 semester credit hours with 48 at the upper level (more than 48 credit hours are required in some programs). The BA in Communication and BAAS requires only 42 upper level credit hours. The "upper level" refers to junior and senior level courses, or 3000 and 4000 numbered courses, respectively. The "lower level" refers to freshman and sophomore level courses, or 1000 and 2000 numbered courses, respectively.
2. A minimum of 25% of the credits (i.e., minimum of 30 sch) used to meet degree requirements must be completed at UT Permian Basin of which at least 6 sch of the minimum must be upper level credits in each of the student's major fields (more in most curricula). No credit for course work in excess of 30 hours in courses with prefixes of ACCT, FINA, MNGT and MRKT will count toward a degree except for a Bachelor of Business Administration (BBA) degree awarded by the College of Business.
3. Complete at least 24 semester credit hours in the major (more in most curricula), at least 18 of which must be upper level; at least six credits in the major must be taken at UT Permian Basin. Twenty-four of the last 30 semester credit hours earned toward the degree must be in residence. For a BBA in Accountancy, Finance, Management, or Marketing, at least 30 semester credit hours in upper level business course work must be taken at UT Permian Basin.
4. Have earned all transfer credits at a regionally accredited college or university. Up to 15 semester credit hours of correspondence study normally will be accepted from accredited colleges or universities if appropriate to the curriculum. Only by petition to the Dean and on written approval of such a petition by the Dean may additional credits be considered for evaluation and acceptance. The College of Business accepts no advanced business credit by correspondence or from non-accredited institutions; however, if an accredited college or university has awarded credit for such study, U. T. Permian Basin will accept those credits on the same basis as course work completed at that institution.
5. The student must have a "C" average or better and no "F" grades in any credits required for the degree; and must have a cumulative grade point average of 2.0 or higher on course work completed at UT Permian Basin. Grades of "D" are subject to the following restrictions:
  - a. A course in the student's major will not be counted unless the grade is "C" or higher.
  - b. A course taken at UT Permian Basin in which a grade of "D" is assigned will be accepted as a non-major elective or towards general education or minor requirements only if offset with sufficient grades of "A" or "B" in respective non-major electives, Gen-Ed, or minor courses to provide a "C" average or better.
  - c. Credit for transfer courses to UT Permian Basin, in which the grade is "D," will be accepted for non-major elective credit, but will not be accepted towards General Education requirements (unless the student is core complete), towards a minor, or towards a major.
6. Complete the University's General Education Requirements.
7. Complete six semester credit hours in American government (including Texas constitution) and six credit hours in American history.
8. Complete a minor of at least 18 semester credit hours, 9 of which must be at the upper level, in one field or closely related fields (as in a "multidisciplinary" or "distributed" minor). No courses may be counted simultaneously toward the major and minor. A minor will be granted only if it is offered by UT Permian Basin and students may only declare a minor if their program requires it. The following programs do not require completion of a minor and students in these majors may not declare a minor:

Bachelor of Business Administration:

- Accountancy
- Finance
- Management
- Marketing

Bachelor of Arts:

- Humanities
  - Multidisciplinary Studies
  - Art (the all level teaching certification program only)
    - Bachelor of Fine Arts
    - Bachelor of Music
    - Bachelor of Science in Industrial Technology
    - Bachelor of Science in Information Systems
    - Bachelor of Science in Engineering (all majors and tracks)
    - Bachelor of Social Work
    - Second bachelor's degree or concurrent second bachelor's degree
    - Double majors
9. Complete college, departmental and school requirements as appropriate.
  10. Initiate a degree check with the Registrar's Office during the first 12 class days of the semester of expected graduation. Students are strongly encouraged to submit a preliminary degree check the semester prior to the semester they expect to graduate. Degree check forms are available in the Office of the Registrar.

## Posthumous Degrees

A posthumous degree will be awarded if the deceased was enrolled in his or her final semester in courses that would have completed all work required for the degree and meets the minimum GPA requirements for graduation. For further information, individuals may contact the Dean of Student's Office.

## Government and History Requirement for Graduation

Texas law requires that all students who receive a bachelor's degree from a state-supported public institution must earn 6 semester credit hours in American government, including federal and Texas constitutions, and 6 semester credit hours of American history (3 semester credit hours in the history of Texas may be substituted for 3 semester credit hours of American history).

## Appropriate Catalog

Students may obtain a degree according to the course requirements of the Catalog in effect at the time of admission to the University (so long as the courses required for the degree are still offered by the University) or of the course requirements of a later catalog in effect during the period of enrollment. This option shall be available for a six year period dating from the time of the initial admission of the student to the University. If a student drops out for two or more semesters and returns to UT Permian Basin as a former student, they must use the catalog in effect at the time of re-entrance, thereby beginning a new six-year time limit. This regulation applies to degree requirements, but not to operating regulations and procedures. A student who transfers to UT Permian Basin from a Texas public community college may select to graduate according to the degree requirements of the catalog in effect at the time of admission to the community college or of a catalog in effect during the period of enrollment at the community college or the catalog in effect when the students entered U. T. Permian Basin. If the student drops out of the community college for two or more long semesters, the catalog requirements in effect at the time of readmission to the community college would be the earliest catalog the student could select to follow. Whichever catalog a student ultimately chooses applies in its entirety to all degree requirements, including those applying to the major, minor, and general education requirements, total hour and upper level requirements.

# Catalog Authority

The catalog of the University is the document of authority for all students and becomes effective the first day of the fall semester of which it is published. Any academic unit may issue additional or more specific information that is consistent with approved policy. The information in the catalog supersedes that issued by any other unit if there is a conflict between the two.

# Catalog Updates

*The Undergraduate Catalog* and the *Graduate Catalog* are revised annually. The University reserves the right to change the requirements given in a catalog at any time; however, most changes generally will not be effectual until the start of the next academic year.

# Course Descriptions

Course descriptions in the *University Catalog* is correct at the time of publication; students should refer to the course syllabus for additional information about a specific course.

# Catalog Approval and Availability

All curricular requirements, standards, and rules presented in the Undergraduate Catalog must be documented as having gone through the appropriate policy-making/amending and approval procedures as defined in the UT Permian Basin Handbook of Operating Procedures and the Academic Affairs Handbook. New or amended courses, curricula, and academic policies and regulations concerning undergraduate education become effective and are incorporated into the Undergraduate Catalog upon review and approval by the respective academic departments and colleges (if applicable), the Undergraduate Curriculum Committee, the Faculty Senate, the Provost and Vice President for Academic Affairs and, if required, the President, the UT System Board of Regents, the Texas Higher Education Coordinating Board, and the Southern Association of Colleges and Schools Commission on Colleges. The Undergraduate Catalog is maintained by the Office of the Registrar which ensures that the catalog accurately represents the programs and services of the institution.

The undergraduate catalog is published annually in a digital format. Once the new catalog is published online, the previous year catalog is archived and can be accessed via the Registrar's page. Archived copies of catalogs from 1999 to the most recent archived year can be accessed at <http://www.utpb.edu/academics/registration/office-of-the-registrar/catalog-archive>. Prior to 1999 the Undergraduate and Graduate Catalogs were combined into a single document. Information found in undergraduate catalogs dating before 1999, can be obtained by contacting the Registrar's Office [registrar@utpb.edu](mailto:registrar@utpb.edu) or 432-552-2635.

# Graduation

Students that are intending to graduate must apply to do so in the allowable time given at the beginning of each semester. The Office of the Registrar provides students with a graduation packet through their student portal. It is the responsibility of the student to initiate an official intention to graduate with the office of the Registrar. The academic calendar provides a student with the application deadline and commencement date. Students are encouraged to meet with their academic advisor to discuss their degree plan prior to any registration period. Students must be officially enrolled at UT Permian Basin in the semester in which they graduate (see In-absentia section if all course work has been completed). For information on graduation please see the graduation website. Commencement ceremonies are



held three times during an academic year at the end of fall, spring and summer semesters. Regardless of when the student completes the requirements for their degree, degrees are only conferred at the end of the semester.

## Graduating with Latin Honors

For students to be eligible for Latin Honors, students must be receiving their first bachelor's degree, must have completed a minimum of 48 hours at UT Permian Basin and have a minimum cumulative GPA of 3.50. This distinction is given to undergraduate students only and not intended for post graduate students. Honors will be awarded based upon the following GPA scale:

<b>GPA</b>	<b>Latin Honor</b>
3.50-3.79	Cum Laude
3.80-3.89	Magna Cum Laude
3.90-4.00	Summa Cum Laude

## Graduation Enrollment Requirement (In-Absentia)

A candidate for a degree who has completed all the courses and other requirements for graduation and who must register with the University for the purpose of having a degree conferred, must register in absentia. This is the only purpose for which a student may register in-absentia. After registration for credit during a semester or summer session, a student wishing to change to in-absentia status must have the request approved by the student's academic dean and processed through the add/drop procedure. All fees, less the in absentia fee and computer use fee will be refunded if the change is made during the first 12 class days of the spring or fall semester and 4th class day of the summer session. After the 12th class day or 4th class day in summer, no refunds will be made and no additional charge will be assessed for the in-absentia fee. The University ID card and original paid fee receipt must be returned before a refund can be issued. No refund is made for the cancellation of an in absentia registration. If the student requests a change from in absentia status to regular registration for courses, in-absentia fees paid will apply toward the tuition due.

# Tuition Fees and Deposits

## Residency for Tuition Purposes

A student enrolling at UT Permian Basin for the first time, or a student returning the University after an absence of one year or more, should carefully read the rules governing the determination of residency in order to be prepared to pay the required tuition. Information and advice regarding residency status are available from the Residence Determination Official (Registrar).

Under State Statutes and Texas Higher Education Coordinating Board rules and regulations interpreting those statutes, Title 19, Chapter 21, a prospective student is classified as a resident of Texas, a non-resident of Texas, or an international student. A person who has resided in the State under circumstances specified in these rules is eligible for classification as a resident.

A citizen or a permanent resident of the United States not eligible to be classified as a resident is classified as a non-resident student. A prospective student who is not a permanent resident of the United States and has not been permitted by Congress to adopt the United States as a domicile while in this country is classified as an international student.

An individual classified as a non-resident or as an international student may qualify, under certain exceptions specified in these rules, for resident tuition rates and other charges while continuing to be classified as a non-resident or an international student. Students may access the Texas Higher Education Coordinating Board's rules at the following web site <http://www.theccb.state.tx.us>. For further information on reclassification or residency issues please see the Registration and Student Records section of this catalog.

## Concurrent Enrollment

UT Permian Basin normally limits concurrent enrollment to community colleges. Students desiring credit for concurrent enrollment at another four-year institution or upper level institution must have the prior express permission in writing from the appropriate Dean before enrollment. When a student registers at more than one public institution of higher education at the same time, charges shall be determined in the following manner: Tuition credit is available if three hours or fewer are being taken at UT Permian Basin while concurrently enrolled at an area community college. The student must first register at the area college and bring a receipt to UT Permian Basin. UT Permian Basin's tuition charge will be the difference between the student's total tuition at each of the institutions, but never less than the hourly rate at UT Permian Basin.

## Reclassification for Tuition Purposes

A student has a right to apply for reclassification of residency for tuition purposes after a continuous 12 month period of living in Texas. A non-resident student may be reclassified as a resident if employment, personal factors, or other actions are indisputably indicating a permanent intention to reside in the State. Students are required to apply with the Residence Determination Official in the Office of the Registrar to receive this reclassification. For further information on reclassification please see the Registration and Student Records section of this catalog.

# Responsibility of Student

If there is any question as to residence status it is the student's responsibility, 30 days prior to registration, to raise the question with the administrative officials of the institution in which he or she is enrolling for official determination. Students classified as Texas residents must affirm the correctness of that classification as a part of the registration process. If the student's classification as a resident becomes inaccurate for any reason, it is the student's responsibility to notify the proper administrative officials at the institution. Failure to notify the institution constitutes a violation of the oath of residency and may result in disciplinary action.

Students claiming residency by virtue of parental dependency must provide sufficient documentation to support the residency claim of the parent. Residency is determined by State Statutes and in accordance with the guidelines promulgated by the Texas Higher Education Coordinating Board. The Residence Determination Official determines all residency classifications. To appeal the decision of the Residence Determination Official, students may present their case to the Vice President for Student Affairs and Leadership. If students wish to appeal that decision, they may appeal to the President of the University whose decision is final.

# Exemptions and Waiver Programs

Students who do not qualify for in-state tuition may have the opportunity to take advantage of exemption and waiver programs made available by the State of Texas. Students are advised to seek information about these programs from the Office of Financial Aid. Students who would like to be considered for reclassification as a Texas resident may contact the Residency Determination Official.

# Exemption/Waiver programs for Tuition and fees

- Accredited School Scholarship
- Adopted Children formerly in Foster or other Residential Care
- Blind and Deaf Students
- Children of Disabled/Deceased Texas Firefighters and Law Enforcement Officers
- Children of Prisoners of War or Persons Missing in Action
- Children of Professional Nursing Program Faculty
- Children and Spouse of Texas Veterans
- Concurrent Enrolled High School/University Credit
- Disabled Peace Officers
- Distance/Off Campus Learning
- Economic Hardship
- Firefighters enrolled in Fire Science Courses
- Fully Funded Courses
- Good neighbor Scholarship
- Inter-institutional Academic Programs
- Members of State Military Forces
- Nursing Preceptors and their Children
- Out of State Military if intent is to make Texas their home
- Prisoners of War
- Senior Citizen
- Students Under Conservatorship of Department of Family and Protective Services

- Surviving Spouse and Minor Children of Certain Police, Security, or Emergency Personnel Killed in the Line of Public Duty
- Texas Ex-Servicemen

Specific details about these exemptions can be found at the <http://www.collegeforalltexas.com/> website. For questions about qualifying for these exemptions, students should contact the Director of Financial Aid.

## **Refund of Tuition and Fees for Students Withdrawing from the University or Reducing Course Load**

Students must submit their withdrawal request to the Registrar at which time, the percent of tuition refund will be determined. Refund amounts for withdrawals are based on the total number of hours in which a student is enrolled at the date of withdrawal. Students withdrawing from the University will be refunded appropriate tuition and fees as follows:

### **Fall or Spring Terms**

- Prior to first class day 100% (less a \$15 matriculation fee)
- During the first 5 class days 80%
- During the second 5 class days 70%
- During the third 5 class days 50%
- During the fourth 5 class days .25%
- After the fourth 5 class days NONE

### **Summer Terms**

- Prior to the first class day 100% (less a \$15 matriculation fee)
- During the first, second or third class day 80%
- During the fourth, fifth or sixth class day .50%
- After the sixth class day NONE

First time students receiving federal aid under Title IV of the Higher Education Act of 1965 will be entitled to a refund of the higher of: (1) the refund required by applicable state law; (2) the refund required by the accrediting agency; or (3) the pro rata refund as prescribed by federal law.

## **Students Entitled to Educational Assistance (VA Benefit)**

A student who is entitled to educational assistance under VA Chapter 31 or Chapter 33, will be considered to have pending financial support. They will be permitted to enroll in and attend course(s) for a semester as long as the student provides one of the following by the first day of class:

- Educational institution a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33

- "Statement of Benefits" obtained from the Department of Veterans Affairs' eBenefits website
- VAF 28-1905 form for chapter 31 authorization purposes

Students who receive educational assistance under chapter 31 or 33, will not be penalized, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities or require a covered individual to borrow additional funds, if the student's inability to meet their financial obligations to the institution is due to the delayed disbursement funding from the VA under chapter 31 or 33.

This status will end on the earlier of the following dates:

- The date on which payment from VA is made to the institution.
- 90 days after the date the Institution certified tuition and fees following the receipt of the certificate of eligibility.

## Guaranteed Tuition Rate Plan

The Guaranteed Tuition Rate Plan (GTRP) encourages students to complete their college degree quickly, reducing costs and debt to students. State legislation enables UT Permian Basin to set a fixed tuition rate for four years, regardless of tuition increases during that time. By opting into the Guaranteed Tuition Rate Plan, UT Permian Basin students and their families can lock in tuition rates at the time they enroll and be protected against any future tuition increases. Freshmen and undergraduate transfer students who are seeking their first bachelor's degree are eligible for the GTRP. Once the GTRP option is selected, students will not be eligible to change or select a different tuition plan (in the current term or in future terms). Pre-college credit earned through AP, IB, CLEP tests or dual credit courses will not affect students' opportunity to participate in the GTRP. College credit hours earned before high school graduation do not count against new freshmen who start UT Permian Basin directly after high school and enroll in the GTRP. There is no penalty for graduating in more than four years. However, the GTRP only locks in your tuition for four years. If a student takes more time to earn their degree, their tuition rate would change to the prevailing traditional tuition rate. For example, if tuition is locked in at the 2020-2021 guaranteed rate but the student does not finish in four years, the fifth year would be billed at the current rate. In addition, students who take longer than four years to graduate incur additional costs, such as living expenses, books and fees that can dramatically increase the cost of a college education. It pays to graduate on time. For more information regarding the GTRP contact the Office of Admissions.

## Texas Tuition Rebate

In the Spring of 1997, the Texas Legislature passed Senate Bill 1907 which provides a \$1,000 rebate of a portion of the undergraduate tuition paid by certain students. These students are those Texas residents who are awarded a baccalaureate degree and have attempted no more than three hours in excess of the minimum number of semester credit hours required to complete the degree. This includes transfer credit and course credit earned exclusively by examination. The statute contains further detail on who is qualified and directs the Texas Higher Education Coordinating Board to adopt rules for the administration of the rebate. Students who believe they may qualify for this rebate should ask the Registrar's Office for further information.

## Tuition Set Aside

Student will be able to view a tuition and fee bill online <http://www.my.utpb.edu> when the semester opens. This will include the amount of his/her tuition payment that is required to be set aside to provide financial assistance for the students enrolled at the Institution.

## Payment of Tuition and Fees

Students are not entitled to enter a class or laboratory until their tuition, fees, and deposits have been paid. Students are expected to pay all tuition and fees at the time of registration, before the first day of class, or have an approved financial aid award arranged by the Financial Aid Office prior to registration. Payment may be made by cash, check, credit card, or money order. Check, money order, and credit card (VISA, MasterCard, and Discover) payments will be accepted subject to final collection by the University's bank. All checks must be drawn on U. S. banks in U. S. dollars. When a check is returned unpaid to the University, a \$30.00 service charge is assessed. If the returned check was for tuition, the student's registration will be canceled.

Section 54.007 of the Texas Education Code authorizes the Board of Regents of The University of Texas System to provide for the payment of tuition and mandatory fees during the fall and spring semesters through the following options:

1. Full payment of tuition and fees in advance of the beginning of the semester; or
2. Enrollment in a payment plan

There is a \$35 administrative fee assessed when enrolling in a payment plan and a 25% deposit is required upon enrollment. A student who fails to provide full payment of tuition and fees, including late fees assessed, to the University when the payments are due, is subject to one or more of the following actions at the University's option:

1. Prohibition from registering for classes until full payment is made;
2. Withholding of grades, degree and official transcripts; and loss of credit for work completed that semester;
3. All penalties and actions authorized by law;
4. Referral of debt to a collection agency.

All policies regarding the payment or refunding of tuition, fees and charges are approved by the Board of Regents of The University of Texas System and comply with and are subject to change by applicable state statutes. If a person desires clarification of any matter relating to payment or refund of such charges, or believes special circumstances warrant exceptions to the published policy, the Office of the Registrar or the Office of Student Accounts should be contacted.

## Cost of Attendance

Annually, the Office of Financial Aid estimates the average expenses for a full-time student for two semesters at UT Permian Basin. Current information may be found at <https://www.utpb.edu/admissions-aid/tuition-affordability/index>

## Changes to Tuition and Fees

Tuition charges at Texas state universities are established by state law. The State of Texas 78th Legislature allowed the Board of Regents of The University of Texas System to set designated tuition rates. The State of Texas Legislature does not set the specific amount of any particular student fee. Student fees assessed are authorized by state statute;

however, the specific fee amounts and the determination to increase fees are made by the University administration and The University of Texas System Board of Regents. All other fees at UT Permian Basin are fixed within statutory limitations set by the Board of Regents. All tuition and fees are subject to change by the State of Texas Legislature or Board of Regents without notice. Tuition and fees at UT Permian Basin are subject to change in adherence with acts of the State of Texas Legislature and/or policies of the Board of Regents. The continued receipt of tuition and fee exemptions and/or waivers is conditioned on students maintaining a GPA for making satisfactory academic progress, and, of an undergraduate, not completing an excessive number of credit hours.

## Charges for Excess Hours

As authorized by state law, a student who pays resident tuition rates and who attempts hours that exceed a designated limit will be charged the nonresident tuition rate.

## Forty-Five Credit Hour Limit Rule

Beginning the Fall 1999 semester, first time freshmen, and entering freshmen thereafter, will be under the 45 Plus Hour Rule. The rule states that students who attempt more than 45 credit hours over their degree plan at Texas State funded institutions of higher education and have not yet earned a baccalaureate degree will be charged out-of-state tuition. Attempted hours include hours a student is registered for through the census class day. Any courses dropped prior to the census class day will not be considered attempted hours by the State. Students who have transcribed course work prior to the Fall of 1999 are grandfathered from the 45 Plus Hour Rule.

## Thirty Credit Hour Limit Rule

Beginning with the fall 2006 semester, first time freshmen, and entering freshmen thereafter, will be under the 30 Plus Hour Rule. The rule states that students who attempt more than 30 credit hours over their degree plan at Texas State funded institutions of higher education and have not yet earned a baccalaureate degree will be charged out-of-state tuition. Attempted hours include hours a student is registered for through the census class day. Any courses dropped prior to the census class day will not be considered attempted hours by the State. Students who have transcribed course work prior to the Fall of 2006 are grandfathered from the 30 Plus Hour Rule, but may be affected by the Forty-Five Credit Hour Limit Rule.

The following credit hours are not included in the calculation:

- 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 Education Code, § 51.931;
- hours earned by the student before receiving a baccalaureate degree that has previously been awarded to the student;
- hours earned by the student by examination or similar method without registering for a course
- hours from remedial and developmental courses, workforce education courses, or other courses that would not generate academic credit that could be applied to a degree at the institution if the course work is within the 27-hour limit at two-year colleges and the 18-hour limit at general academic institutions
- hours earned by the student at a private institution or an out-of-state institution; and
- hours not eligible for formula funding
- Doctoral students who receive resident tuition may also be charged the nonresident tuition rate after exceeding the designated limit of 100 semester credit hours.

For more information contact the Office of the Registrar.

## **Three-peat Charge**

A student whose hours may no longer be submitted for formula funding because it is the same or substantially similar to a course that the student previously attempted for two or more times at The UT Permian Basin will be charged a higher tuition rate equal to nonresident tuition rates.

## **On-Time Graduation**

Most bachelor degrees require 120 hours to complete. This means that for students to graduate in four years they must take thirty credit hours per year. Students who graduate in four years as opposed to five or six years will generally experience a lower overall cost in attaining their bachelor degree.

## **Students that follow the below actions facilitate timely graduation**

- Meet with your academic advisor before registering for each semester
- Follow your appropriate degree plan and suggested sequence of classes.
- Average 30 semester credit hours annually
- Maintain at least a 2.0 cumulative GPA
- If you would like to take courses elsewhere, please consult with your academic advisor before deciding to transfer classes.



# Summary Description of Tuition and Fees

Name	Residency	Amount	Notes
<b>Undergraduate</b>			
In-State	Resident	\$219.22/sch	Set by Legislature and Board of Regents (Texas Education Code 54.0512 and 54.0513)
New Mexico Non Adjacent County	Non-Resident	\$249.22/sch	Set by Texas Higher Education Coordinating Board (County not adjacent to Texas, per statutory requirement.)
New Mexico Adjacent County	Non-Resident	\$219.22/sch	Set by Texas Higher Education Coordinating Board (County adjacent to Texas, per statutory requirement.)
Out-of-State	Non-Resident	\$627.22/sch	Set by Texas Higher Education Coordinating Board per statutory requirement.
International	Non-Resident	\$627.22/sch	Set by Legislature and Board of Regents (Texas Education Code 54.0512 and 54.0513)
<b>Graduate</b>			
In-State	Resident	\$274.87/sch	Set by Legislature and Board of Regents (Texas Education Code 54.0512 and 54.0513)
New Mexico	Non-Resident	\$304.87/sch	Set by Texas Higher Education Coordinating Board (County not adjacent to Texas, per statutory requirement.)
New Mexico	Non-Resident	\$274.87/sch	Set by Texas Higher Education Coordinating Board (County adjacent to Texas, per statutory requirement.)
Out-of-State	Non-Resident	\$682.87/sch	Set by Texas Higher Education Coordinating Board per statutory requirement.
International	Non-Resident	\$682.87/sch	Set by Legislature and Board of Regents (Texas Education Code 54.0512 and 54.0513)
<b>Required Fees:</b>			
Advising Fee	All Students	\$35/sem	A non-refundable, compulsory fee to defray costs of student advising.
Athletic Fee	All Students	\$24/sch	A fee to support the intercollegiate athletic program. All students who are not 100% online or whose main address is within a 50 mile radius of the campus will be charged this fee.

Technology Fee	All Students	\$25.50/sch	A fee for support of student technology needs and applications.
Library Service Fee	All Students	\$9/sch	A compulsory fee to fund direct services to students including on-line access to academic indexes and electronic library services.
Medical Services Fee	All Students	\$16.09/sem	A compulsory fee to provide medical services for students at the contract facility with a \$10 co-pay.
Orientation	Online	\$20.00	A non-refundable, one time, compulsory fee to defray orientation costs. This fee is NON REFUNDABLE
Orientation	Transfer Students	\$75.00	A non-refundable, one time, compulsory fee to defray orientation costs. This fee is NON REFUNDABLE
Orientation	Freshman Students	\$120.00	A non-refundable, one time, compulsory fee to defray orientation costs. This fee is NON REFUNDABLE
Student Service Fees	All Students	\$17.97/sch	A compulsory fee to fund student services and operation and use of facilities and activities; governing board may set at a rate up to the statutory tuition for resident undergraduate students.
Student Multipurpose Center Fee	All Students	\$150/sem	A fee to operate and maintain the Student Multi-Purpose Center.
Distance Education Fee	All Students	\$105.00/sch	A fee assessed on a per course basis to operate and maintain online classroom functionality. Other fees may be waived.
Apollidon UG Online Fee	Online	108.12/sch	A fee assessed to undergraduate students in the accelerated online program used to operate and maintain online classroom functionality. Other fees may be waived.
Apollidon Grad Online Fee	Online	81.12/sch	A fee assessed to graduate students in the accelerated online program used to operate and maintain online classroom functionality. Other fees may be waived.

**Incidental Fees**

Audit Fee	Students desiring to Audit	\$35/sch plus lab fees	To defray the costs incurred in scheduling non-credit participants in scheduling classes.
Student ID Fee	All Students	\$10 per ID	To defray cost for the student identification card.
Add/Drop Fee		\$5 per transaction	Fee for adding and/or dropping a class. Fee is charged beginning the first day the session begins
Graduation Fee		\$25 UG /\$50 GR	Fee to register for graduation. This fee is NON REFUNDABLE
In-Absentia Fee		\$25 per semester	Fee to register for a course in-absentia

Three-peat enrollment		\$35/sch	Fee charged in addition to mandatory tuition and fees for repeating a course for the third or more time.
Excess Undergraduate Credit Hour Fee		\$35/sch	Fee charged in addition to mandatory tuition and fees for exceeding the 30/45 hour rule.
Late Registration Fee		\$15 per semester	Fee to register for classes during the late registration period.
Parking Fee		\$55 per year	Fee to obtain a student parking permit
Property Deposit	All Student	\$20	Deposit paid upon admittance as a student to cover any property damage. Refundable upon request after graduation or withdrawal if no damages are incurred.
Transcript Fee		\$7 per transcript	Fee to obtain an official UT Permian Basin transcript
TK20 Subscription Fee		\$100	Fee paid by some College of Education Students to access the TK20.
Returned Payment Fee		\$30	Fee for a payment returned to UT Permian Basin by your bank
Credit/Debit Card Convenience Fee		2.25% per transaction	Fee to use a debit or credit card to make payment on a student account
Payment Plan Enrollment Fee		\$35 Fall/Spring \$25 Summer	Fee to enroll in a payment plan
Payment Plan Late Fee		\$10	Fee for paying a payment plan installment after the due date
Variety	All Students	Variable	For specific services such as late registration, library fines, microfilming fees, bad check charges, application
<b>Laboratory and Course Fees</b>			
Laboratory Fee	All Students	Variable	There are a variety of mandatory charges for certain laboratory courses; they may not be less than \$1 per semester nor more than \$30 per semester and must not exceed the cost of actual materials and supplies used by a student. Supplemental Fees
Course Fee	All Students	Variable	Charges in addition to regular tuition for students registered in art, architecture, drama, speech, or music where individual coaching or instruction is the usual method of instruction. Voluntary Fees
Variety	All Students	Variable	All students desiring the specific service may include such items as parking, yearbook, or locker.

Course Differential Fee	\$30/sch	All students enrolled in a course for business, nursing, and/or engineering.
Business Courses	\$35/sch	All students enrolled in a course for business.
Engineering	\$40/sch	All students enrolled in a course for engineering.
Nursing	\$40/sch	All students enrolled in a course for nursing.

## List of Other Fees

**Education Learning Theory and Assessment Course Fee.** To defray costs of a diagnostic test kit, a \$25 fee will be charged.

**Education Practicum: Reading Course Fee.** To defray costs of a diagnostic test kit, a \$25 fee will be charged.

**Education Reading Diagnostic/Remediation Course Fee.** To defray costs of diagnostic tests, a \$25 fee will be charged.

**Education Student Teaching Course Fee.** Students enrolled in Student Teaching, Education 4099 and Education 4399, are assessed a \$65 fee to defray the costs of providing cooperating teachers for supervision of student teachers.

**Geology Field Course Fee.** A \$650 fee will be charged for the GEOL 4600 Field Geology course.

**Health Insurance Fee.** International students holding non immigrant visas and living in the United States will be assessed a fee to defray costs of mandatory insurance. The rate will be variable to match the premium for the approved UT System student insurance plan.

**Library Fines.** The following fees are to cover library operational costs associated with the processing, storage and purchase of lost or damaged books or books returned after the due date and with search, copy, and interlibrary loans. To cover library costs for the purchase of equipment, furniture and technology dealing with library resource management and costs of other library operations. The late fee and processing fee are non refundable.

**Lost Book.** Replacement cost plus processing fee.

**Overdue Charges.** General Check Out \$0.25/day/item. Interlibrary Loan \$1/day on overdue materials. Recalled Book \$1/day. Reserve Books \$0.25/hour. Video, non print media \$1/day

**Thesis and Book Binding.** \$7.50 plus any additional costs required for special binding such as pocket parts, tipping of maps, etc. to a maximum of \$15.

**Parking Permit Fees.** Students will register their cars in a single payment for the entire school year or the balance of the school year in which they register, whichever is applicable. The school year is August 15 through August 14. A list of the fees can be found at <http://ss.utpb.edu/university-police/students-right-to-know/parking-traffic/> Failure to pay an assessed fee will result in your student account being placed on hold.

**Student Services Fee.** The Student Services fee is compulsory for all students. The maximum Student Services fee per semester is \$250.00. Students who register for the summer session are charged on the same basis as students registered during the regular academic year. The fee provides funding for extracurricular activities and events designed to augment student life at UT Permian Basin and reservation privileges at the gymnasium.

1. Students registered in absentia are not eligible to participate in student services and programs unless the regular fees are paid.

The Student Handbook publishes the available programs, activities and services that the fee provides. This handbook is available at registration or from the Office of Student Life.

2. Refund of the Student Services fee to students withdrawing is made on the same basis as refund of the registration and tuition fees. The Board of Regents may set the fee at a rate up to \$250/semester for resident undergraduate students.

**Supplemental Fees.** These include a variety of fees charged in addition to regular tuition for students registered in art, drama, speech, or music where individual coaching or instruction is the usual method of instruction.

**Teacher Certification Credentials Fee.** A \$10 fee will be charged to cover the costs of evaluating student credentials for state teacher certification.

**Teacher Certification Deficiency Plan Fee.** A \$30 fee per student will be charged to defray the cost of preparation of deficiency plans.

**Test Administration Fee.** To defray administrative costs in the Programs Assisting Student Studies (PASS) Office, a fee of \$10 per test will be charged. **(This does not include the cost of the test.)**

**Concurrent enrollment.** Section 54.062 of the Texas Education Code provides for the following tuition procedure for students registering concurrently at two Texas public institutions of higher education:

1. The student must register first at the institution with a lower minimum tuition and pay the full tuition charge.
2. Generally only the hourly rate is paid at the second institution. However, if the minimum amount is less at the first institution, then the student must pay the difference in the two minimums to the second institution, but not less than the hourly rate. All other required and optional fees are billed by each institution at its regularly authorized rates.

# Sample of Total Tuition and Fee Charges

The table can be used to estimate the full costs of one semester for Texas resident students. For undergraduates, the amounts are shown for 12 and 15 schs. For graduate students, the table gives amounts for 3 and 9 schs. If a student enrolls for a different number of hours, they may use the extra column to calculate those costs using the per semester credit hour charges for tuition and fees that are based on the number of hours of credit. Since the table shows only average charges for college and course related fees, a more precise total would have to be calculated by determining the actual fees for the student's school or college and the courses for which the student has enrolled. Necessary information may be obtained from the Office of Student Financial Services and/or UT Permian Basin's tuition and affordability website.

Name of Charge	Undergraduate		Graduate	
	12 sch	15 sch	3 sch	9 sch
<b>Resident Tuition (1)</b>	\$2630.64	3288.30	\$824.61	2473.83
<b>Add: Required Fees (2)</b>				
Student Services Fees	\$215.64	\$250.00	\$53.91	\$161.73
Library Service Fee	\$108.00	\$135.00	\$27.00	\$81.00
Athletic Fee	\$288.00	\$360.00	\$72.00	\$216.00
Student Multi-Purpose Center	\$150.00	\$150.00	\$150.00	\$150.00
Advising Fee	\$35.00	\$35.00	\$35.00	\$35.00
Technology Fee	\$306.00	\$382.50	\$76.50	\$229.50
Medical Service Fee	\$16.09	\$16.09	\$16.09	\$16.09
<b>Total Charges</b>	<b>\$3,749.37</b>	<b>\$4616.89</b>	<b>\$1255.11</b>	<b>\$3,363.15</b>

# General Education Requirements

The purpose of the General Education Core Curriculum is to provide UT Permian Basin graduates with knowledge and basic intellectual competencies that are essential tools for learning in any discipline. Completion of the Core Curriculum will ensure that graduates acquire:

- Communicate clearly through the effective development, interpretation and expression of ideas through written and oral communication.
- Manipulate and analyze numerical data or observable facts resulting in informed conclusions.
- Think critically using creative thinking, innovation, inquiry, analysis, evaluation, and synthesis of information.
- Consider different points of view and work effectively with others to support a shared purpose or goal.
- Demonstrate social responsibility through knowledge of intercultural competence, civic responsibility, and the engagement in regional, national and global communities.
- Demonstrate personal responsibility through the ability to connect choices, actions, and consequences to ethical decision-making.

UT Permian Basin Core Curriculum complies with State law and the Texas Higher Education Coordinating Board (THECB) rules. The courses in the General Education Core Curriculum have been approved by UT Permian Basin and the THECB.

## The General Education Core Curriculum consists of 42 semester credit hours in the following categories

Communication	6 credits
History (United States)	6 credits
Language, Philosophy and Culture	3 credits
Mathematics	3 credits
Life and Physical Sciences (any two 3-SCH courses; labs that accompany them are counted as Component Area Options)	6 credits
Political Science (U.S., State of Texas and Local Government)	6 credits
Creative Arts	3 credits
Social and Behavioral Science	3 credits
Component Area Option (includes oral communication and the labs that accompany Life and Physical Science courses)	6 credits

The following table lists current UT Permian Basin courses that satisfy the general education requirement in each of the categories of the core curriculum. The table also lists course numbers in the Texas Common Course Numbering System (TCCNS) that, when transferred from public higher education institutions in Texas, meet UT Permian Basin general education requirements. The TCCNS is a statewide system for determining equivalency of courses at different institutions.

Some majors specify courses to meet one or more general education requirements. Students should refer to major requirements listed in this catalog before selecting general education courses. Students seeking teacher certification should contact their certification advisor for specific math requirements.

Category	Course	TCCN	Title	SCH
<b>010 Communication</b>				
010	ENGL 1301	ENGL 1301	Composition I	3
010	ENGL 1302	ENGL 1302	Composition II	3
<b>020 Mathematics</b>				
020	MATH 1314	MATH 1314	College Algebra	3
020	MATH 1324	MATH 1324	Applications Discrete Math	3
020	MATH 1332	MATH 1332	Contemporary Math	3
020	MATH 1342	MATH 1342	Elementary Statistics	3
020	MATH 2412	MATH 2412	Precalculus	4
020	MATH 2413	MATH 2413	Calculus I	4
<b>030 Life and Physical Sciences</b>				
030	ASTR 1301		Astronomy I	3
030	BIOL 1306	BIOL 1306	General Biology I	3
030	BIOL 1307	BIOL 1307	General Biology II	3
030	BIOL 1308	BIOL 1308	Biology for Non-Science Majors	3
030	CHEM 1311	CHEM 1311	General Chemistry I	3
030	CHEM 1312	CHEM 1312	General Chemistry II	3
030	GEOL 1301	GEOL 1303	Physical Geology	3



030	GEOL 1302	GEOL 1304	Historical Geology	3
030	PHYS 2325	PHYS 2325	University Physics I	3
030	PHYS 2326	PHYS 2326	University Physics II	3

**040 Language, Philosophy and Culture**

040	COMM 1301	COMM 1307	Intro to the Study of Communication	3
040	ENGL 2322	ENGL 2322	British Lit To 1800	3
040	ENGL 2323	ENGL 2323	British Lit Since 1800	3
040	ENGL 2327	ENGL 2327	American Lit To 1865	3
040	ENGL 2328	ENGL 2328	American Lit Since 1865	3
040	PHIL 2300	PHIL 2300	Introduction to Philosophy	3
040	SPAN 2311	SPAN 2311	Intermediate Spanish I	3
040	SPAN 2312	SPAN 2312	Intermediate Spanish II	3
040	SPAN 2320	SPAN 2320	Intro Latin American Studies	3
040	UNIV 1301*		Honors Freshman Seminar	3

**050 Creative Arts**

050	ARTS 1301	ARTS 1301	Art Appreciation	3
050	ARTS 1303	ARTS 1303	Art History Survey I	3
050	ARTS 1304	ARTS 1304	Art History Survey II	3
050	DRAM 1310	DRAM 1310	Intro to Theatre Arts	3
050	MUSI 1301	MUSI 1310	Jazz, Pop, & Rock	3
050	MUSI 1306	MUSI 1306	Music Appreciation	3
050	UNIV 1302*		Honors Freshman Seminar II	3

**060 American History**

060	HIST 1301	HIST 1301	History of the US to 1877	3
060	HIST 1302	HIST 1302	History of the US Since 1877	3

**070 Government/Political Science**

070	PLSC 2305	GOVT 2305	American National Politics	3
070	PLSC 2306	GOVT 2306	State and Local Politics	3
070	UNIV 2301*		Honors Sophomore Seminar	3

**080 Social and Behavioral Sciences**

080	ECON 2301	ECON 2301	Principles of Macroeconomics	3
080	ECON 2302	ECON 2302	Principles of Microeconomics	3
080	LEAD 1301	LEAD 1301	Intro to Leadership Studies	3
080	PSYC 1301	PSYC 1301	Intro to Psychology	3
080	SOCI 1301	SOCI 1301	Intro to Sociology	3

**090 Component Area Option**

095	ARTS 1303	ARTS 1303	Art History Survey I	3
095	ARTS 1304	ARTS 1304	Art History Survey II	3
093	ASTR 1101	ASTR 1101	Astronomy Lab	1
093	BIOL 1106	BIOL 1106	General Biology Lab I	1
093	BIOL 1107	BIOL 1107	General Biology Lab II	1
093	BIOL 1108	BIOL 1108	Biology for Non Science Majors Lab	1
093	CHEM 1111	CHEM 1111	General Chemistry I Lab	1
093	CHEM 1112	CHEM 1112	General Chemistry II Lab	1
093	CHEM 1311	CHEM 1311	General Chemistry I	3
093	CHEM 1312	CHEM 1312	General Chemistry II	3
094	COMM 1115		Communication Lab	1
091	COMM 1315	SPCH 1315	Intro to Public Speaking	3
095	DRAM 1310	DRAM 1310	Intro to Theatre Arts	3
098	ECON 2301	ECON 2301	Principles of Macroeconomics	3
098	ECON 2302	ECON 2302	Principles of Microeconomics	3
094	ENGL 2322	ENGL 2322	British Lit To 1800	3

094	ENGL 2323	ENGL 2323	British Lit Since 1800	3
094	ENGL 2327	ENGL 2327	American Lit To 1865	3
094	ENGL 2328	ENGL 2328	American Lit Since 1865	3
093	GEOL 1101	GEOL 1103	Physical Geology Lab	1
093	GEOL 1102	GEOL 1104	Historical Geology Lab	1
094	HIST 2322	HIST 2322	World Civilizations Since 1500	3
095	MUSI 1301	MUSI 1310	Jazz, Pop, & Rock	3
093	PHYS 2125	PHYS 2125	University Physics I Lab	1
093	PHYS 2126	PHYS 2165	University Physics II Lab	1
098	PSYC 1301	PSYC 1301	Intro to Psychology	3
098	SOCI 1301	SOCI 1301	Intro to Sociology	3
094	SPAN 2311	SPAN 2311	Intermediate Spanish I	3
094	SPAN 2312	SPAN 2312	Intermediate Spanish II	3
094	SPAN 2320	SPAN 2320	Intro Latin American Studies	3

\* UNIV courses are open to students in the Honors Program only.

In addition, most teacher certification programs have mathematics requirements different from or beyond the minimum mathematics general education requirements. Students seeking teacher certification should contact their certification advisor for specific math requirements.

## Texas Common Core Curriculum (TCCC)

THECB has developed the Texas Common Core Curriculum (TCCC). This 42 semester credit hour curriculum transfers freely from one Texas public institution of higher education to another. UT Permian Basin identifies courses using the TEHCB common course numbering system and most of the University's general education requirements meet the TCCC requirements.

Students transferring to UT Permian Basin who have completed a 42 semester credit hour core at a Texas public college or university will receive a minimum of 42 semester credits for the core as transfer credits and will have met the University's general education requirements.

Students transferring to UT Permian Basin who have completed fewer than 42 semester credits from core courses at a Texas public college or university will receive credit toward the University's general education requirements for the credits taken. The student should consult with their advisor for elements of the general education requirements that remain to be completed.

# UT Permian Basin Course Numbering

Courses are identified by a four-letter prefix of the discipline followed by a four-digit course number. The first digit represents the level as outlined below. The second digit denotes the number of credit hours. The last two digits are departmental designations, normally used to distinguish courses of the same level and credit value or sequence.

0398 -0399	Developmental courses
1000-1999	Freshman courses.
2000-2999	Sophomore courses.
3000-3999	Junior courses.
4000-4999	Senior courses.
6000-6999	Graduate courses

# Texas Common Course Numbering System (TCCNS)

TCCNS was developed to facilitate transfer of general academic courses among Texas public institutions. Common courses are included in the Community College General Academic Course Guide Manual, published by the THECB and may be used to determine how freshman and sophomore-level courses transfer from and to Texas public institutions. The statewide TCCN may be accessed at [www.tccns.org](http://www.tccns.org)

The common course number has a standardized four-letter prefix followed by a four-digit number, for example, ENGL 1301. The four-letter prefix identifies the subject area. Each digit in the four-digit sequence gives additional information about the course. The first digit identifies the course as either freshman level (1) or sophomore level (2). The second digit identifies the number of credit hours a student will earn upon completion of the course. Most often this digit will be a 1, 2, 3, or 4. The final two digits serve to establish the sequence in which courses are generally taken.

TCCN Subject	TCCN Number	TCCN Title	UTPB Subject	UTPB Number	UTPB Title
ACCT	2301	Principles of Financial Accounting	ACCT	2301	Prin Of Financial Accounting
ACCT	2302	Principles of Managerial Accounting	ACCT	2302	Prin Of Managerial Accounting
ARTS	1301	Art Appreciation	ARTS	1301	Art Appreciation
ARTS	1303	Art History I (Prehistoric to the 14th Century)	ARTS	1303	Art History Survey I
ARTS	1304	Art History II (14th Century to the Present)	ARTS	1304	Art History Survey II
ARTS	1311	Design I (2-Dimensional)	ARTS	1311	2-D Design
ARTS	1312	Design II (3-Dimensional)	ARTS	1312	3-D Design
ARTS	1316	Drawing I	ARTS	1316	Intro To Drawing
ARTS	2323	Life Drawing I	ARTS	2310	Figure Composition
ARTS	2348	Digital Art I	ARTS	2348	Digital Art

ASTR	1103	Stars and Galaxies Lab	ASTR	1101	Descriptive Astronomy Lab
ASTR	1303	Stars and Galaxies	ASTR	1301	Descriptive Astronomy
BCIS	1305	Business Computer Applications	COSC	1335	Computers And Problem Solving
BIOL	1106	Biology for Science Major I (lab)	BIOL	1106	General Biology I Lab
BIOL	1107	Biology for Science Major II (lab)	BIOL	1107	General Biology II Lab
BIOL	1108	Biology for Non-Science Major I (lab)	BIOL	1108	Biology Non Science Majors Lab
BIOL	1306	Biology for Science Majors I (lecture)	BIOL	1306	General Biology I
BIOL	1307	Biology for Science Majors II (lecture)	BIOL	1307	General Biology II
BIOL	1308	Biology for Non-Science Majors I (lecture)	BIOL	1308	Biology For Non Science Majors
BIOL	1322	Nutrition & Diet Therapy	BIOL	2303	Intro Nutrition
BIOL	2321	Microbiology for Science Majors I (lecture)	BIOL	2121	Intro Microbiology Lab
BIOL	2421	Microbiology for Science Major I (lecture + lab)	BIOL	2320	Intro Microbiology
BUSI	1301	Business Principles	BUSI	1301	Business Principles
BUSI	2301	Business Law	MNGT	2301	Business and the Law
BUSI	2305	Business Statistics	BUSI	2342	Principles of Statistics
CENG	2333	Elementary Chemical Engineering	CENG	2333	Elementary Chemical Engineering
CHEM	1111	General Chemistry I (lab)	CHEM	1111	General Chemistry Lab I
CHEM	1112	General Chemistry II (lab)	CHEM	1112	General Chemistry II Lab
CHEM	1305	Introductory Chemistry I (lecture)	CHEM	1305	Introductory Chemistry
CHEM	1311	General Chemistry I (lecture)	CHEM	1311	General Chemistry I
CHEM	1312	General Chemistry II (lecture)	CHEM	1312	General Chemistry II
COMM	1307	Introduction to Mass Communication	COMM	1301	Intro To The Study Of Comm
COMM	2311	Media Writing	COMM	2311	Writing For Media
COSC	1420	C Programming	COSC	2420	C Programming
COSC	1436	Programming Fundamentals I	COSC	1430	Intro To Computer Science I

COSC	1437	Programming Fundamentals II	COSC	2430	Intro To Computer Science II
CRIJ	1301	Introduction to Criminal Justice	CCJO	2310	Intro to Criminal Justice
CRIJ	2328	Police Systems & Practices	CRIM	2310	Police And Society
DRAM	1310	Theater Appreciation	DRAM	1310	Introduction To Theatre Arts
ECON	2301	Principles of Macroeconomics	ECON	2301	Principles Of Macroeconomics
ECON	2302	Principles of Microeconomics	ECON	2302	Principles Of Microeconomics
ENGL	1301	Composition I	ENGL	1301	Composition I
ENGL	1302	Composition II	ENGL	1302	Composition II
ENGL	2322	British Literature I	ENGL	2322	British Literature To 1800
ENGL	2323	British Literature II	ENGL	2323	British Literature Since 1800
ENGL	2327	American Literature I	ENGL	2327	American Literature To 1865
ENGL	2328	American Literature II	ENGL	2328	American Literature Since 1865
ENGR	1204	Engineering Graphics I	ENGR	1204	Engineering Graphics
ENGR	2301	Engineering Mechanics-Statics	ENGR	2301	Engineering Mechanics: Statics
ENGR	2302	Engineering Mechanics - Dynamics	ENGR	2302	Engineering Mechanics
ENGR	2305	Electrical Circuits I	ENGR	2305	Fund Of Circuit Analysis
FREN	1411	Beginning French I	FREN	1411	Beginning French I
FREN	1412	Beginning French II	FREN	1412	Beginning French II
GEOL	1103	Physical Geology (lab)	GEOL	1101	Physical Geology Laboratory
GEOL	1104	Historical Geology (lab)	GEOL	1102	Historical Geology Laboratory
GEOL	1303	Physical Geology (lecture)	GEOL	1301	Physical Geology
GEOL	1304	Historical Geology (lecture)	GEOL	1302	Historical Geology
GOVT	2305	Federal Government (Federal Const & Topics)	PLSC	2305	American National Politics
GOVT	2306	Texas Government (Texas Const & Topics)	PLSC	2306	State And Local Politics
HIST	1301	United States History I	HIST	1301	Us To 1877

HIST	1302	United States History II	HIST	1302	Us Since 1877
HIST	2321	World Civilizations I	HIST	2321	World Civ To 1500
HIST	2322	World Civilizations II	HIST	2322	Wrld Civ 1500-Pres
MATH	1314	College Algebra (3 SCH version)	MATH	1314	College Algebra
MATH	1324	Math for Business & Social Sciences	MATH	1324	Applications Of Discrete Math
MATH	1325	Calculus for Business & Social Sciences	MATH	1325	Application Of Continuous Math
MATH	1332	Contemporary Mathematics (Quantitative Reasoning)	MATH	1332	Contemporary Math I
MATH	1342	Elementary Statistical Methods (3 SCH version, freshman level)	MATH	1342	Elementary Statistics
MATH	1350	Mathematics for Teachers I (Fundamentals of Mathematics I)	MATH	1350	Found Of Elementary Math I
MATH	1351	Mathematics for Teachers II (Fundamentals of Mathematics II)	MATH	2350	Found Of Elementary Math II
MATH	2312	Pre-Calculus Math (3 SCH version)	MATH	2412	Precalculus
MATH	2313	Calculus I	MATH	2413	Calculus I
MATH	2314	Calculus II	MATH	2414	Calculus II
MATH	2315	Calculus III	MATH	2415	Calculus III
MUSI	1116	Sight Singing & Ear Training I	MUSI	1116	Sight Singing & Ear Training I
MUSI	1117	Sight Singing & Ear Training II	MUSI	1117	Sight Singing & Ear Training II
MUSI	1181	Piano Class I	MUSI	1210	Class Piano I
MUSI	1182	Piano Class II	MUSI	1211	Class Piano II
MUSI	1183	Voice Class	MUSI	1183	Class Voice I
MUSI	1192	Guitar Class	MUSI	1190	Guitar I
MUSI	1303	Fundamentals of Music	MUSI	1303	Fundamentals of Music
MUSI	1306	Music Appreciation	MUSI	1306	Music Appreciation
MUSI	1311	Music Theory I	MUSI	1311	Music Theory I
MUSI	1312	Music Theory II	MUSI	1312	Music Theory II
MUSI	2116	Sight Singing & Ear Training III	MUSI	2116	Sight Sing and Ear Tran III

MUSI	2117	Sight Singing & Ear Training IV	MUSI	2117	Sight Sing and Ear Tran IV
MUSI	2181	Piano Class III	MUSI	2210	Class Piano III
MUSI	2182	Piano Class IV	MUSI	2211	Class Piano IV
MUSI	2311	Music Theory III	MUSI	2212	Music Theory III
MUSI	2312	Music Theory IV	MUSI	2213	Music Theory IV
PHED	1306	First Aid	KINE	2306	First Aid
PHED	2356	Care & Prevention of Athletic Injuries	KINE	2370	Care/Prev Athletic Injuries
PHIL	1301	Introduction to Philosophy	PHIL	2300	Introduction to Philosophy
PHIL	1304	Introduction to World Religions	PHIL	1304	Introduction to World Religions
PHIL	2303	Introduction to Formal Logic	PHIL	1301	Logic
PHYS	1101	College Physics I (lab)	PHYS	1101	College Physics I Laboratory
PHYS	1102	College Physics II (lab)	PHYS	1102	College Physics II Laboratory
PHYS	1301	College Physics I (lecture)	PHYS	1301	College Physics I
PHYS	1302	College Physics II (lecture)	PHYS	1302	College Physics II
PHYS	2125	University Physics Laboratory I (lab)	PHYS	2125	University Physic I Laboratory
PHYS	2126	University Physics Laboratory II (lab)	PHYS	2126	University Phys II Laboratory
PHYS	2325	University Physics I (lecture)	PHYS	2325	University Phys I
PHYS	2326	University Physics II (lecture)	PHYS	2326	University Physics II
PSYC	2301	General Psychology	PSYC	1301	Intro Psychology
SOCI	1301	Introductory Sociology	SOCI	1301	Intro To Sociology
SOCI	2336	Criminology	CRIM	2336	Introduction To Criminology
SOCW	2361	Introduction to Social Work	SOWK	2361	Introduction To Social Work
SOCW	2362	Social Welfare as a Social Institution	SOWK	2320	Social Welfare Policies
SPAN	1411	Beginning Spanish I	SPAN	1411	Beginning Spanish I
SPAN	1412	Beginning Spanish II (2nd semester Spanish, 4 SCH version)	SPAN	1412	Beginning Spanish II
SPAN	2311	Intermediate Spanish I (3rd semester Spanish)	SPAN	2311	Intermediate Spanish I



SPAN	2312	Intermediate Spanish II (4th semester Spanish)	SPAN	2312	Intermediate Spanish II
SPAN	2313	Spanish for Native/Heritage Speakers I	SPAN	2313	Spanish for Native/Heritage Speakers I
SPAN	2315	Spanish for Native/Heritage Speakers II	SPAN	2315	Spanish for Native/Heritage Speakers II
SPCH	1315	Public Speaking	COMM	1315	Intro To Public Speaking
SPCH	1318	Interpersonal Communication	COMM	1318	Interpersonal Communication
SPCH	2333	Discussion & Small Group Communication	COMM	2333	Small Group Communication

## Business Field of Study

The Texas Higher Education Coordinating Board has approved the Field of Study Curriculum for Business. The following Texas Common Course Numbering System (TCCNS) courses are fully transferable to The University of Texas Permian Basin to meet the Field of Study Requirements for Business: ECON 2301 and ECON 2302, MATH 1324, MATH 1325, COSC (BCIS) 1305 or 1405, SPCH 1311 (with appropriate content only), SPCH 1315 or SPCH 1321 (preferred) and ACCT 2301 or and ACCT 2401 ACCT 2302 or ACCT 2402 only. The ECON 2301, MATH (except MATH 1325) and SPCH classes also meet General Education requirements.

## Degree Maps

Degree maps represent a student's four year plan at UTPB. A degree map offers the preferred plan for each major across four years. Here are the four steps on your roadmap to graduation:

1. **Set your destination:** your goal is to graduate. We'll help you navigate the path.
2. **Plan your route:** You'll be given a map of which courses to take across eight semesters, keeping you on track for graduation.
3. **Find your driver:** Your academic advisor and Faculty Advising Mentor (F.A.M.) will guide you through your route.
4. **Ride share:** Take your journey with students in your same academic group (also known as meta-majors).

UTPB has an entire page dedicated to Falcon Maps which outlines the course sequence for your chosen program of study.

# Intercollegiate Athletics

## Athletics Philosophy

The UT Permian Basin Intercollegiate Athletics Program exists to afford students the opportunity to participate in a structured program of athletics as they work toward earning a college degree. Students participating in Athletics must understand that although participation in athletics can be a rewarding and memorable aspect of the college experience, earning a degree is their primary goal. Student athletes must be committed to regular class attendance, academic integrity, and the realization of their academic potential. There are educational values to be obtained through participation in a structured program of athletics. Athletic participation shall assist in the development of the whole individual: physically, cognitively, emotionally, and spiritually. Accordingly the welfare of student athletes is vitally important. UT Permian Basin student-athletes have access to health care and mental-health services as well as academic tutoring, counseling and advising as a means of contributing to their well-being and development. Student-athletes are encouraged to interact with individuals from all areas of campus in order to enhance their social development and quality of life. They are encouraged to participate in student-life programs such as the Campus Activities Board, Student Senate, intramurals, campus clubs and student housing activities as a means of interacting with individuals of various races, ethnicities and socioeconomic backgrounds. The Athletics Department strives to offer equitable participation opportunities to men and women as it fosters acceptance and discourages discrimination of any kind. The Athletics Department will strive to achieve diversity in its Administrative, Coaching and Support Staff positions.

The Athletics Department is committed to:

- Principles of sportsmanship and fair play,
- Ethical activity in the areas of recruiting, athletic competition and academic achievement,
- Amateurism in college sport,
- Compliance with all NCAA, Lone Star Conference, and University of Texas System rules and regulations.

## Athletics at a Glance

The Athletics program was started in 1994 and is funded primarily through student fees and private donations - state funds cannot be used. The Department currently sponsors 16 varsity teams; with over 400 students involved in the program as student-athletes, trainers and managers. Admission to home athletic events is free to all UT Permian Basin students. Men's intercollegiate sports offerings include: baseball, basketball, cross-country, football, golf, soccer, swimming/diving, and tennis. Women's intercollegiate sports offerings include: basketball, cross-country, golf, soccer, softball, swimming/diving, tennis, and volleyball. The Athletics Department is a NCAA Division II member and participates in the Lone Star Conference. Athletics awards over \$1 million annually in athletic scholarships. UT Permian Basin has a rich history of winning Championships including Baseball (2009), Men's Basketball (2011 & 2017), Women's Basketball (2013), men's soccer (2005) and Volleyball (1999, 2007 & 2008).

## General Eligibility Requirements

In order to be eligible to participate in Intercollegiate Athletics, students must meet all eligibility requirements set forth by the NCAA. Complete requirements are too numerous to list here. A thorough eligibility check is completed before the first competition each season. General eligibility guidelines are presented in following sections.

### Full-Time Status

Students must be enrolled in a minimum of 12 semester hours to be eligible to practice and compete. Students falling below 12 hours are ineligible. In order to assure that students participating in athletics do not fall below 12 hours, an academic hold is placed on the schedule of each participant during the semester(s) of competition. The Athletics Compliance Officer should be consulted before adds or drops can be made.

### **Incoming Freshmen**

Freshmen must graduate from high school and meet ALL the following requirements to be eligible:

- Complete 16 core courses:
- Three years of English.
- Two years of math (Algebra 1 or higher).
- Two years of natural or physical science (including one year of lab science if your high school offers it).
- Three additional years of English, math or natural or physical science.
- Two years of social science.
- Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy.
- Earn at least a 2.2 GPA in your core courses.
- Earn a SAT combined score of 870 or an ACT sum score of 70.

Additional Information on Freshman Eligibility can be found here: <http://www.ncaa.org/student-athletes/play-division-ii-sports>

### **Transfer Eligibility Information**

For information concerning transfer eligibility guidelines, please visit the NCAA website and review transfer regulations presented in the NCAA Transfer Guide. <http://www.ncaa.org/student-athletes/current/want-transfer>

## **Program Administrators and Coaches**

For a list of program administrators and coaches, please visit the UT Permian Basin Program Administration page.

# College of Arts and Sciences

One of UT Permian Basin's most academically diverse colleges, the College of Arts & Sciences contributes to the education of virtually every student at UT Permian Basin through its core curriculum. The College of Arts & Sciences offers more than 30 degree programs in arts, humanities, social sciences, biology, and chemistry. In addition to excellent teaching, the college produces quality research and creative work.

The Department websites can be found at <https://www.utpb.edu/academics/colleges/arts-sciences/departments/cas-departments>

## **Mission**

The mission of the College of Arts and Sciences is to offer academic programs that teach students the following personal and marketable skills: to know the importance of a Liberal Art's Education in a diverse and complex world; to better understand the meaning of the student's life; to become more sensitive to the meaning of other people's lives; to increase the student's range and complexity of information and data that make sense to the student by developing critical thinking skills; to teach the student to write and speak well enough to convey the special quality of their mind to others; to teach the student to explore the boundaries of their intellect; to seek truth, knowledge and wisdom; and to develop a good work ethic as productive adults.

## **Undergraduate Major Disciplines**

The College of Arts and Sciences offers the Bachelor of Arts (BA) degree in the following disciplines: Art, Communication, Criminology, English, History, Humanities, Leadership Studies, Political Science, Psychology, Sociology, and Spanish. The College offers the Bachelor of Science (BS) degree in the following disciplines: Athletic Training, Biology, Chemistry, Computer Science, Criminal Justice, Geology, Information Systems, Kinesiology and Mathematics. The Bachelor of Applied Arts and Sciences (BAAS) is offered in applied arts and sciences disciplines. The Bachelor of Fine Arts (BFA) is offered in Art. The Bachelor of Social Work (BSW) is offered in Social Work. The Bachelor of Music (BM) is offered in Music.

The College also provides a Pre-Professional Health Curriculum for students planning to enter medical, dental, optometry, pharmacy or veterinary schools. Students planning careers in these and other allied health fields are referred to the Biology section on pre-professional health programs in this catalog, and to faculty in Biology and Chemistry for advising. Students planning to attend law school are referred to the Pre-Law section of the catalog.

In addition to the University's minimum general education core requirements for the BA and BS degrees, students must complete the specific Major discipline's degree requirements. The specific additional requirements for these disciplines and various options may be found in the academic discipline sections of this catalog.

For the BA, BFA, BS, and BSW degrees, a minimum of 120 semester credit hours is required. The degrees in all majors require that at least 48 hours must be taken at the upper division (junior and senior) level except the BA in Communication and the BAAS, both of which require only 42 upper level hours. Depending on the major, at least 18-30 credit hours must be taken within the major at the upper level. Individual disciplines may set additional and more specific requirements for their respective degrees. This information can be found in the academic discipline sections of this catalog. Enrollment in upper level courses in the major is permitted only after the student has completed all lower-division (freshman and sophomore) prerequisites in the major.

## **Minor**

Students majoring in a discipline within the College must complete a minor with the exception of those seeking the following: the double major, a second bachelor's degree, a concurrent second bachelor's degree, the BA in Humanities, the BA in Art (the all level teaching certification program only), the BFA in Art, and BSW in Social Work. A minor consists of a minimum of 18 credit hours, at least nine of which must be upper division. No courses may be counted simultaneously toward the major and minor. Each discipline specifies the requirements for the minor, and there are interdisciplinary minors in Leadership Studies, Bilingual/ESL, Energy Studies, Latin American Studies, Multicultural Studies, Special Populations and Women's Studies. Although a student may not major in non-degree programs such as Fine Arts students may minor in these fields. The specific requirements for these minors may be found in the academic discipline sections of this catalog.

## **Advising**

All freshman and sophomore students in the College of Arts and Sciences will be advised by professional advisors in the Academic Advising Center. Juniors and seniors will be assigned a faculty advisor in their chosen major and will be advised by that advisor for their last two years at UT Permian Basin. All incoming transfer students in the College of Arts and Sciences will be initially advised by professional advisors in the Academic Advising Center. If the incoming transfer student is a freshman or sophomore, the student will be advised by the professional advisors until the student is a junior at which time a faculty advisor in the student's chosen major will be assigned. If the incoming transfer student is a junior or senior, after initial advising by a professional advisor in the Academic Advising Center, a faculty advisor will be assigned. All students should meet their advisor once during each semester. At that meeting the advisor will update the student's degree plan and discuss the courses the student should take during the subsequent semester. In this way, the student can complete his or her degree in a timely and efficient manner. A student who enters the University and decides to defer declaring a major will be advised by the Academic Advising Office. Once the student declares a major and is a junior or senior, the Academic Advising Office will assign a faculty advisor in that major field. Prospective high school and community college students are encouraged to contact the Academic Advising Office for assistance in planning high school and lower division transfer programs or to learn more information about specific major programs and career opportunities. Freshman or sophomore students in online programs will be advised online by professional advisors in the Academic Advising Center. The student must initiate advising by emailing [advising@utpb.edu](mailto:advising@utpb.edu).

## **Teacher Certification and TExES Requirements**

Students who seek teaching certification are subject to additional course requirements and procedures that are described in the College of Education section of this catalog. The Teacher Certification Officer in the College of Education should be consulted for the purpose of generating a separate teacher certification plan.

## **Graduate Programs**

At the graduate level, Master's degrees are offered in eleven Arts & Science fields. The Master of Arts (MA) degree is offered in English, History, Mathematics, Psychology, and Spanish; the Master of Science (MS) is offered in Biology, Computer Science, Criminal Justice Administration, Geology and Kinesiology; and the Master of Public Administration (MPA) is offered in Public Administration under Leadership Studies. The specific admissions and course requirements for the Master's Degrees are available in the UT Permian Basin *Graduate Catalog*.

# **Department of Art**

## **Art and Fine Art**

Administered by the Department of Art within the College of Arts and Sciences. <https://www.utpb.edu/academics/colleges/arts-sciences/departments/art/index>

**Our Mission in ART is to:**

- Prepare students to become professional artists and educators to develop an attitude that leads to continued study in the liberal arts or professional level in the field as well as to engage in lifelong learning.
- Offer a diversity of cultural and artistic media in the form of exhibitions, lectures, seminars, competitions, and visiting artist that enhance the awareness of and exposure to historical and contemporary art and contemporary concerns in Art education for UT Permian Basin students as well as the residents of the Permian Basin.
- Provide the skills, knowledge, and experience necessary to teach all levels of Art.
- Serve non-art majors by offering courses in Studio Art, Art History, and Art Appreciation.
- Provide all students with a quality educational experience in the Visual Arts and to serve the Permian Basin as a resource for Arts-related programs.

**The Discipline's Goals in ART are to:**

- Provide undergraduate students, many of whom are first-generation university students, with access to an excellent and personal experience in the visual arts and the liberal arts.
- Recruit and retain highly qualified students, to encourage the development of their potential, and to provide a high quality environment that prepares them to become professionals in their fields.
- Continue our role as a leader in visual arts education.

**Competencies in ART:**

- Learn the functional competencies with the elements and principles of art and design.
- Understand the historical issues, processes and directions that support the creation of art.
- Have the opportunity to exhibit art and participate in critiques of personal and peer work.
- Analyze and evaluate art and its practices using historical and contemporary references.

**Accreditation**

The Art discipline of the University of Texas of the Permian Basin is accredited by the National Association of Schools of Art and Design (NASAD).

## General Information

**Advising**

When matriculating to UT Permian Basin as freshmen, students will be assigned an advisor through the Academic Advising Office (Mesa Building). Upon completion of the core courses, and advancement to junior standing, a Faculty member from the Art discipline will be chosen for each student. The faculty member will advise the student until graduation. Should the student prefer a different Advisor, a formal change must be processed.

**Advanced Placement**

Students who have completed Advanced Placement art courses in high school, earning scores of 4 or 5, may receive the following credit toward UTPB degrees in art:

AP Art Examination	UT Permian Basin Equivalent Credit
Art History	ARTS 1303, ARTS 1304: 6 credit hours
Art: Studio Art, Drawing Portfolio	ARTS 1316: 3 credit hours
Art: Studio Art, Two-Dimensional Design Portfolio	ARTS 1311: 3 credit hours

### **International Baccalaureate**

Students who have completed the International Baccalaureate ART/DESIGN higher-level examinations with a score of 5 or higher should consult the Chair of the Arts Department regarding the application of IB credit toward degree programs. Students who wish to petition to substitute IB work for credit other than an art elective should be prepared to show a portfolio of work to the faculty in Arts.

### **Degree Plan**

A degree plan is the official document of the University that lists all courses necessary for a student to complete a chosen degree. It shows how all of the courses will be completed in order to earn the degree. Students should file a degree plan when they reach the sophomore level of their chosen major. This document is signed by the student and their advisor and is subsequently submitted to the Registrar's Office.

### **Degree Audit**

A degree audit is the official document of the University that lists all the courses taken by the student or courses that the student is currently enrolled in to complete a chosen degree. It shows that all of the requirements have been met in order for the degree to be awarded. Students are required to meet with their advisors and file the degree audit the semester prior to anticipated graduation. This document is signed by the advisor, the Chair of Arts, and is sent with accompanying materials to the Registrar's Office prior to graduation.

### **Scholarships**

Art scholarships have been established through gifts from faculty, alumni and friends of the Visual Arts Department. In addition to endowed scholarships, occasional annual scholarships are awarded. Applicants for all scholarships in Art must be enrolled in a minimum of six credit hours and be a declared Art major at UT Permian Basin. Additional criteria for each scholarship, application materials and deadlines are available through the office of Financial Aid.

### **Nancy Fyfe Cardozier Gallery**

UT Permian Basin is fortunate to have its own exhibition space. This is due to the generosity of Dr. V. R. Cardozier, President of UT Permian Basin from 1974 - 1982. We present a broadly based exhibition program with emphasis on contemporary art. Among other exhibitions scheduled throughout the academic year, there are two student shows. The Freshman/Sophomore show generally held in late November and the Junior/Senior show in late April. Awards are given to students based on the evaluation of an outside judge. This is another opportunity for students to receive aid for tuition or the added expenses associated with becoming artists.

### **Degrees in Art**

UT Permian Basin offers two degrees in the area of Art: the Bachelor of Arts (BA) and the Bachelor of Fine Arts (BFA). The BA with a major in Art requires either an 18 credit hour minor or the Teacher Certification component, which consists of 24 credit hours. The BA in Art with an emphasis in Graphic Design requires a minor in one of the following disciplines, Marketing, Communication or Computer Science. The focus of the BFA is a professional degree in Studio Art.

Studio courses at UT Permian Basin meet two days a week for 2 hours 50 minutes. All Art majors are required to meet the 15 credit hour visual arts core prior to taking junior or senior courses. Students who transfer to UT Permian Basin and have not met the General Education core curriculum requirements must also complete the core before taking upper-level art courses. These core foundation courses prepare students for Junior and Senior level courses and are necessary for advanced work.

### **Expenses**

Students need to be aware that courses in the Arts will require art supplies in addition to textbooks. Some art supplies can be expensive. Most of the supplies can be purchased at arts and crafts stores and large chain stores (Walmart, Target, etc.). Supplies can also be purchased from an online store. The Arts Department will provide some of the supplies and equipment required for the courses. Students are responsible to have the art supplies needed for the course.

Students who are not prepared with the supplies at the beginning of the semester will not be able to complete their assignments on time. Most of the art instructors have a supply list that they can provide to students prior to the start of the semester. Please call the Arts Department for information.

## Department of Biology

Administered by the Department of Biology within the College of Arts and Sciences.

<https://www.utpb.edu/academics/colleges/arts-sciences/departments/biology/index>

Biology courses apply to the Bachelor of Science degree with a major or a minor in Biology. Degree programs provide preparation for careers in elementary and secondary teaching; research in basic and applied biological sciences; preparation for health professions programs (medicine; veterinary medicine; dentistry; optometry; etc.) Science writing and communication; environmental management and conservation; and forensic science among others. As a minor, Biology is a good supporting field for majors in Chemistry, Psychology and the like. The introductory sequence, General Biology (BIOL 1306/BIOL 1106, BIOL 1307/BIOL 1107), is required for all Biology degree plans and is appropriate for meeting the University general education requirements for two life science courses with a laboratory (8 semester credit hours). Biology for Non-majors (BIOL 1308, BIOL 1108) is appropriate for meeting the University general education requirement of a life science course for non-science majors.

The Biology program features three basic degree plans: Pre-professional, General Studies, and Teacher Certification and two degree tracks: Molecular Biology and Organismal Biology. Students seeking to earn a Bachelor of Science with a major in Biology must pass all courses taken for the major, minor, general education, and support requirements on the Biology degree plans with a grade of C or better.

## Prerequisites to Health Professions Programs

UT Permian Basin offers academic and pre-professional advising toward a number of professional health programs, including medicine, dentistry, chiropractic medicine, optometry, pharmacy, physician's assistant, physical therapy, podiatry, and veterinary medicine. The mission of the health professions advising program is to help students become well informed and prepared applicants to enter health professional schools. To fulfill this mission, the health professions advising program offers the following services to interested students: academic advising; information regarding prerequisites, application, and admission to various health professional programs, especially those in Texas; and in the case of eligible students, information and application assistance to the Joint Admission Medical Program (JAMP). The Health Professions Advisory Committee annually conducts mock interviews for interested applicants to medical and dental schools. Please refer to the Health Professions Advisor at UT Permian Basin for further information.

Students have the option to major in any academic discipline they choose, and they are encouraged to choose a major that reflects their interests and abilities. Nevertheless, most health professional programs require certain courses in mathematics and the natural sciences that must be taken as undergraduate prerequisites. Therefore, largely for convenience, the pre-professional health curriculum are offered primarily through the Biology and Chemistry programs within the College of Arts and Sciences. Students planning a career in one of the health professions, regardless of major, should contact the health professions advisor for appropriate pre-professional advising.

Depending on the health program, the health professional schools require a minimum number of undergraduate semester credit hours ranging from 60 to 90 as a requirement before application submission. However, the minimum number of hours to apply is not the same as all the hours that are sufficient to gain acceptance. In practice, applicants with these minimum requirements rarely receive admission; a baccalaureate degree is usually highly desirable and in a few cases required. As a general, rule it is recommended that students plan on completing their degree before entering a health professions program.

Below is a course equivalency guide showing the UT Permian Basin courses that meet what are essentially the minimum requirements for entry into the various health professional programs in the State of Texas. This guide is only



approximate, and schools occasionally change their prerequisites. Students should contact the University Health Professions Advisor or the individual professional school for more complete or updated information. Entry into these programs is very competitive. Following the course equivalency guide does not guarantee acceptance into a professional school. Therefore, students should choose a major that prepares them for alternative career choices.

## Pre-professional Course Requirements for Health Professional Schools in Texas

With minor exceptions, all of the doctoral-granting health professional schools in Texas (medicine, dentistry, chiropractic medicine, optometry, pharmacy, veterinary medicine) require the following block of undergraduate prerequisites. For laboratory courses, the laboratory component is required. Below the table of common prerequisites, additional or special requirements for various schools are summarized as conveniently as possible.

Course Requirement Subject and Hours	UTPB Course Equivalent
English Composition I and II (6 sch)	ENGL 1301, ENGL 1302
General Biology I and II with lab (8 sch)	BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107
General Chemistry I and II with lab (8 sch)	CHEM 1311 -CHEM 1111, CHEM 1312-CHEM 1112
Organic Chemistry I and II with lab (8 sch)	CHEM 3411-CHEM 3113, CHEM 3412-CHEM 3114
Physics I and II with (8 sch) (some programs require calculus-based physics)	PHYS 2325-PHYS 2125, PHYS 2326-PHYS 2126 or PHYS 1301-PHYS 1101, PHYS 1302-PHYS 1102
Calculus I and Statistics	MATH 2413 and MATH 3301 (most programs require MATH Statistics; consult Health Professions Advisor)

## Additional Course Requirements, by Health Professional Program

Minimum two upper level Biology courses:

Most Texas medical schools require Biochemistry and two upper level Biology courses but make no specifications.

Special required courses:

- BIOL 3300-BIOL 3101, Microbiology with lab (4 sch), optometry, pharmacy, veterinary medicine
- BIOL 4303, Nutrition (3 sch), veterinary medicine
- BIOL 3350-BIOL 3151 and BIOL 3352-BIOL 3153, Human Anatomy & Physiology with lab (8 sch), optometry, pharmacy
- BIOL 4320, Biochemistry (3 sch), dentistry, optometry, veterinary, and 80% of Texas medical schools
- BIOL 4340-BIOL 4141, Genetics with lab (4 sch), pharmacy, veterinary medicine
- ENGL 23xx, Survey of X Literature (3 sch), required by pharmacy, veterinary medicine
- COSC 1335, Computers & Problem Solving (3 sch), required by chiropractic medicine
- PSYC 1301, Intro. to Psychology (3 sch), required by chiropractic medicine, optometry
- Various additional but often unspecified hours in humanities and social sciences (Psychology, Sociology) required by chiropractic medicine, pharmacy, and veterinary medicine

**Important notes:**

1. All science prerequisite courses (Biology, Chemistry, Physics) must be the courses required for science majors; for example, BIOL 1308-BIOL 1108, Biology for Non-Science Majors are not accepted as prerequisites.
2. Remedial, developmental, or "English as a second language" courses are not accepted as prerequisites; for example, ENGL 0399, MATH 0398, MATH 0399, and CHEM 1305, Intro to Chemistry, are not accepted.
3. University of Houston College of Optometry requires both Calculus and Statistics.

## **Department of Chemistry and Physics**

### **Chemistry, Biochemistry, Environmental Chemistry, Pre-Pharmacy & Chemical Education**

Administered by the Department of Chemistry within the College of Arts and Sciences.  
<https://www.utpb.edu/academics/colleges/arts-sciences/departments/chemistry/index>

Chemistry is a central science that provides a basic understanding needed to deal with many of society's needs. It is a critical field for humanity's attempt to feed and clothe the world population, to tap new sources of energy, to improve health, and to protect our environment. All life processes are manifestations of chemical change. Understanding chemical reactivity is necessary for our understanding of life and the world around us. Modern chemical instrumental techniques furnish a crucial dimension. They account for the recent acceleration of progress that now promises especially high return from the investment of additional resources in the field of chemistry. The chemical industry of the U.S. employs over a million people. A Chemistry degree offers greater security in the future.

The Chemistry program leading to the Bachelor of Science degree at UT Permian Basin follows the guidelines of the American Chemical Society for a Bachelor of Science in Chemistry. This degree is appropriate for a student who wishes to pursue a professional career in any field of chemistry. The B.S. in Chemistry (Biochemistry Track) is designed for students pursuing a career in a health profession and who desire a strong background in this central science as preparation for medical, dental, veterinary and pharmacy schools, as well as teaching. The B.S. in Chemistry (Environmental Chemistry Track) is designed for students pursuing a career related to the environment. Pre-Pharmacy and Chemical Education tracks are also available.

## **Department of Communication**

### **Communication**

The Communication Division is Administered by the Department of Communication within the College of Arts and Sciences. <https://www.utpb.edu/academics/colleges/arts-sciences/departments/communication/index>

The degree program in Communication will expose students to courses in the mass media, social science, and rhetorical traditions and will prepare students for a wide range of possible careers as well as for graduate and professional studies. Students will take a series of prescribed courses across the curriculum as well as several electives designed to meet their particular interests and needs. Each Communication student should be better prepared to use critical skills in a rapidly evolving workplace.

## **Department of Computer, Cyber and Information Sciences**

## Computer Science

Administered by the Department of Computer, Cyber, and Information Sciences within the College of Arts and Sciences. <https://www.utpb.edu/academics/colleges/arts-sciences/departments/computer-science/index>

The Bachelor of Science degree in Computer Science gives students the opportunity to obtain a thorough understanding of computers and their applications, and in the design and analysis of software and hardware systems for use in scientific and/or business environments. Faculty in Computer Science may allow transferred credits to count towards a major or a minor in Computer Science. The number of credit hours required, at the upper-level or in total, can not be reduced except by academic petition.

## Information Systems

The overall goal of the Information Systems program is to provide its graduates with basic information systems and computing skills. This much is in common with computer science, though the computing skill set is somewhat different. The program is distinguished from computer science in that it provides a background in business skills, including an emphasis on how information systems fit into a modern business organization.

## Relationship of Information Systems and Computer Science

It is not possible to double major in information systems and in computer science or to major in information systems and minor in computer science or vice-versa. Students interested in the computer science major with an information systems emphasis may elect to complete the computer science major while completing the essential business core for information systems. This option requires that the mathematics taken follow the requirements of the computer science program and that the general business minor be completed. Interested students should consult with a computer science advisor early in the process of the program.

## Department of Geosciences

### Geology

Administered by the Department of Geosciences within the College of Arts and Sciences. <https://www.utpb.edu/academics/colleges/arts-sciences/departments/geosciences/index>

The Bachelor of Science degree in Geology prepares students for positions in Earth-Science-related professions especially in the petroleum and mining industries, the environmental industry, graduate studies, and for teaching. The Geology curriculum provides students with an excellent theoretical and practical background, but not too narrow as to limit opportunities in a rapidly changing marketplace. The department leans heavily on subsurface studies using drill cutting, core petro-physical logs, and geophysical data because not all geologic systems crop out in the Permian Basin. Many courses have a strong field component that leads students to rock outcrops in the nearby mountainous areas. The Department of Geosciences offers a general Geology degree plan and a Petroleum Geology Concentration.

### Environmental Science

Administered by the Department of Geosciences within the College of Arts and Sciences. The Department of Geosciences is currently developing a robust Environmental Science - Geoscience concentration that once approved will be added.

Environmental Science issues and careers require scientists who are: educated in more than one discipline, technically skilled, and aware of the political and social aspects of environmental problems. An understanding of both basic science and applied science is important for this dynamic area of study. Therefore, the minor requires strong foundations of supporting science courses in biology, chemistry, and geology. These courses provide students with the needed breadth and depth of knowledge to understand and address both natural resources and the complex environmental problems facing modern society.

The minor in Environmental Science at the UT Permian Basin is designed for students who expect to work professionally in environmental science related job. It provides an understanding of both basic science and applied science. Specific coursework includes a variety of topics ranging from ecology, to geographic information systems and environmental law, while obtaining the critical hands-on experience of statistical sampling and instrumental analysis skills in courses such as analytical chemistry.

Students in the program are also strongly encouraged to join the National Association of Environmental Professionals (NAEP) that provides opportunities for professional growth and interactions with professionals in the field.

## Department of History

Administered by the Department of History within the College of Arts and Sciences.  
<https://www.utpb.edu/academics/colleges/arts-sciences/departments/history/index>

### History

History concerns people in the broadest sense: the systematic study of the patterns, causes and consequences of human interactions, from individuals to civilizations. In its promotion both of greater awareness of the variety and richness of humanity's heritage, and of critical analytical skills to understand and use that heritage, history embodies the meaning of "liberal arts" education. History is a basic major for those preparing to teach history or social studies at all levels. The general background that it provides also serves as a solid foundation for careers in business, law, government, religion, military service, and journalism, among others. The history program at UT Permian Basin requires a breadth of courses typical of programs elsewhere, within a flexible degree plan allowing for an emphasis in areas of special interest.

### Humanities

The Humanities degree is designed for self-motivated students who desire a broad arts and sciences degree with an interdisciplinary perspective. Instead of pursuing a traditional major, the Humanities student creates, with the consent of a faculty advisor, an individualized plan of study with an interdisciplinary theme, period, set of problems, specialization, or perspective unavailable through the combining of a traditional major and minor.

Humanities students **must select one of two tracks:** A General Studies emphasis (also offered online) or Visual and Performing Arts. Each track has its own degree requirements. No minor is required for the Humanities degree. The total credit hours required for a BA in Humanities is 120.

**Teacher Certification:** Students seeking teacher certification must consult with their teacher certification advisor for the appropriate Education and Humanities courses to take to complete their certification requirements.

## Department of Literature and Languages

## English

Administered by the Department of Literature and Languages within the College of Arts and Sciences. <https://www.utpb.edu/academics/colleges/arts-sciences/departments/literature-language/index>

The goals of the English program include the following: first, to help students develop their ability to read and write critically; second, to provide them with a knowledge about the major periods, movements, and genres in British and American literature; and third, to enhance their awareness of the cultural contexts of literary texts. Students pursuing an English major or minor will receive training in analytical and imaginative reading, in the analysis of literary and non-literary works and in the professional skills involved in writing, rhetoric, and the analysis of all types of written language. Courses at all levels will give serious attention to the literary voices traditionally excluded from or marginalized within the British and American literary canon.

## Spanish

Administered by the Department of Literature and Languages within the College of Arts and Sciences.

The Spanish major provides students with an opportunity to obtain the ability to communicate in Spanish and an understanding of the literatures and cultures of the Spanish-speaking world. Because it shares the Hispanic heritage of Texas and lies in close proximity to Latin American countries, U. T. Permian Basin offers the student of Spanish unique learning and cultural experiences as well as scores of career possibilities and opportunities. West Texas offers a living language and a cultural laboratory in which to study and work. The Spanish major can be elected by students wishing to pursue careers in business, education, science, social services, and translation.

## Department of Mathematics

Administered by the Department of Mathematics within the College of Arts and Sciences. <https://www.utpb.edu/academics/colleges/arts-sciences/departments/mathematics/index>

Our Bachelor of Science in Mathematics degree plans for majors and our minor courses of study in Mathematics provide the student with an array of mathematics. The demand for professionals with strong educations in mathematics is greater than it has ever been and continues to grow in all sectors of society.

# Department of Music

Administered by the Department of Music within the College of Arts and Sciences  
<https://www.utpb.edu/directory/academic-department/music-program>.

## Music Degrees

Both a major and a minor in music are available to students at UT Permian Basin. The Bachelor of Music degree is a comprehensive, professional degree. Through a sequenced series of courses and pre-service public school teaching experience, students who successfully complete the degree fulfill the requirements for Texas EC-12 teacher certification in music. The music degree prepares students for positions as choral, instrumental, or general music teachers at preschool, elementary, junior high, or high school levels. The music degree requires a minimum of 127 credit hours to complete and will require students to spend approximately two-thirds of their time in music and teacher certification study.

Within the Bachelor of Music degree, three emphases are available: Choral/Vocal emphasis, Wind/Percussion emphasis, and String emphasis. Specific information regarding courses required for specific emphases and teacher certification may be found below. Further information on Texas teacher certification and requirements may be found at <https://www.utpb.edu/academics/programs/teaching-certification/index>

## Music Degree Audition Policy

Students interested in a major in Music must go through a two-part admissions process. All students must be admitted to the University through the regular freshman and transfer admissions processes. In addition, all freshmen and transfer students must audition in order to be accepted into the Music Department. The audition will differ slightly based on the track (choral, wind, piano, strings, or percussion). Auditions may be arranged on an individual basis prior to the semester for which the student is seeking admission.

## Choral

Students interested in a major in Music choral track must pass an audition before they will be permitted to enroll in the Music degree program. During the audition, students must demonstrate the following: 1) the ability to accurately reproduce pitches; 2) possession of appropriate range, tonal beauty, and vowel accuracy; 3) the ability to repeat brief melodic fragments; 4) the ability to accurately reproduce written rhythmic patterns; 5) the ability to sight-sing a passage equivalent in difficulty to that of a Bach Chorale; and 6) the ability to perform an accompanied solo demonstrating a high degree of musical artistry.

## Strings and Wind

String and wind student interested in a major in Music must pass an audition before they will be permitted to enroll in the Music degree program. During the audition, students must: 1) perform two pieces of contrasting style (etudes or solos); 2) play two scales of at least one octave, two preferred (winds from among G, C, F, Bb, Ab, & Db. Strings play 3 octave C major scale, one scale from a sharp key, and one scale from a flat key); and 3) the ability to sight-read a passage chosen by the Music faculty.

## Percussion

Percussion students - freshman auditions should prepare something to perform on each of the following instruments: mallets, snare drum, timpani and optional 4-mallet. Transfer auditions should prepare something to perform on each of the following instruments: 4-mallet, snare drum, timpani, and optional drum set.

## Piano

Piano students need to present two compositions of contrasting style periods from either the Baroque Classical, Romantic, Impressionistic, or contemporary styles. The student will also be asked to sight read piano music at an early intermediate level. Suggestions for repertoire: Baroque period: Preludes and fugues from Well-Tempered Clavier, a suite or a partita by Bach, Sonatas by Scarlatti, etc. Classical Period: One movement of Sonata or Sonatas by Clementi, Haydn, Mozart, or Beethoven. Romantic period: Brahms, Chopin, Schuman, Mendelssohn, Liszt, etc. Impressionistic or contemporary: Bartok, Debussy, Ravel, Prokofiev, Shostakovich, etc.

## Proficiency Exams

Before beginning the junior year, Music majors must pass an exam to demonstrate that basic musical skills have been mastered. For detailed information regarding the exam, please see the Music Student Handbook. All music majors must pass a piano proficiency exam prior to graduation. The exam may be taken at any time during the course of study. Please see the Music Student Handbook for more information.

## The Non-Music Major

The Music Program at UT Permian Basin serves students in other fields of study from within a broad liberal arts curriculum. In this role, it provides:

- A core of basic courses and musical experiences to meet general education requirements in music for the university student population
- An awareness of the interrelationship between the arts and other academic disciplines
- Opportunities for individuals to develop an articulate aesthetic sense and to become discerning consumers and patrons of the arts
- Performance experiences for musicians of various skill levels, through ensembles open to membership without audition and auditioned ensembles designed for students with who desire a more rigorous schedule and heightened performance experience.

## Department of Psychology

Administered by the Department of Psychology within the College of Arts and Sciences. <https://www.utpb.edu/academics/colleges/arts-sciences/departments/psychology/index>

Psychology is the science of behavior and mental processes. Behavior is anything an organism does that we can observe and record; examples include smiling, talking, yelling, and marking a questionnaire. Mental processes are internal subjective experiences we infer from behaviors, such as thoughts, feelings, and beliefs. During their study at UT Permian Basin, psychology majors are expected to gain knowledge about theoretical perspectives and empirical findings across a wide range of topics as well as understand and apply research methods and statistics. They are expected to develop critical and creative thinking skills, apply psychological principles to a wide range of activities and learn ethical principles that underlie psychological approaches. Students will demonstrate competence with information technology, communicate effectively, understand and respect the complexity of socio-cultural diversity,

understand avenues for personal development, and apply psychological principles in various occupations. Psychology is an extremely broad discipline and provides students the opportunity to prepare for a wide variety of careers or graduate school. For example, a major in Psychology can provide a liberal arts education with a broadened understanding of psychological functioning as it applies to the study of the simplest organisms to the most complex of human behavior. The major in Psychology is also useful for students preparing for advanced study in business administration, education, law, medicine, neuroscience, and social work. In addition, the major in Psychology is recommended for students planning careers in organizational settings (in both the public or private domain) focusing on personnel, industrial training, urban planning, information systems, or pure and applied research. Careers in community settings focus on the juvenile justice system, adult probation and parole, recreation, and educational or clinical services to children, adolescents, the aged and handicapped. Students who complete the Psychology major often desire to enter professional careers in psychology which require advanced study beyond the bachelor's level, such as clinical psychology, counseling psychology, industrial psychology, school psychology, research, and college teaching. Psychology majors are encouraged to join the Psychology Club and Psi Chi, the UT Permian Basin Chapter of the National Honor Society in Psychology. Membership information is available from the faculty advisors.

## **Department of Social Sciences**

Administered by the Department of Social Sciences within the College of Arts and Sciences. <https://www.utpb.edu/academics/colleges/arts-sciences/departments/social-sciences/index>

The UT Permian Basin Department of Social Sciences provides courses and programs covering social, cultural, political, and economic aspects of humanity. We offer a wide variety of courses that examine human behavior from different vantage points. Students research results in new and better ways to predict behavior and its social, cultural, and psychological implications. We teach quantitative and qualitative methods with a diverse array of programs, from criminology to political science to sociology.

## **Criminology and Criminal Justice Studies**

Administered by the Department of Social Sciences within the College of Arts and Sciences.

Students who major in Criminology and Criminal Justice Studies will obtain a Bachelor of Science degree. Criminology and Criminal Justice Studies is an interdisciplinary behavioral science that includes the study of law, the causes of criminal behavior and the agencies of social control which society has established to prevent and control crime. The program at UT Permian Basin is committed to the personal, analytical and professional development of its students. Many will choose to continue their education in graduate studies or law school, while others will accept employment in criminal justice agencies such as law enforcement, courts, corrections or other social service organizations. The program is committed to developing the student's sensitivity to the human and social condition, coupled with an understanding and ability to participate constructively in the improvement of both.

## **Political Science**

Administered by the Department of Social Sciences within the College of Arts and Sciences.

The purpose of the Political Science program is to provide an in-depth study of American government and politics to give students a basic knowledge of political systems and how institutions of government operate to solve social and political problems. UT Permian Basin's Political Science program is oriented primarily toward the study of American government and politics and secondarily toward comparative government with supporting study in international relations. Students will be encouraged to develop a global perspective which will prepare them to assume leadership roles in shaping the future direction of society. A wide variety of career opportunities are open to students majoring in



political science, including the U. S. Foreign Service, specialized work in foreign countries, the federal government, foundations, private organizations, city management and other types of public administration and public service as well as others less directly related to government. Pre-Law students find the study of political science appropriate preparation for law school. A major in political science is suitable for students planning to teach government or social studies. Graduates in political science earn a Bachelors of Arts (BA) degree with a major in political science and a minor in a secondary field of study.

## **Sociology**

Administered by the Department of Social Sciences within the College of Arts and Sciences, including a full Online Completion Program.

Sociology is the scientific study of human behavior within a society. It emphasizes human interaction within group settings, diversity of cultures and societies, factors that influence social behavior within institutions, formal and informal organizations, and the study of various social groups. The sociology program at UT Permian Basin is committed to the personal, analytical and professional development of its students. The faculty is committed to developing the student's sensitivity to the human and social condition, coupled with an understanding and ability to participate constructively in the improvement of both. In addition, practical applications of sociological knowledge are emphasized. Sociology offers numerous career fields: including secondary social science teaching, industrial sociology, voluntary organizations, private and government foundations, human resource management, consulting, social research, substance abuse counseling, aging, health and illness, law enforcement, ministry, consumer behavior, diversity training, demographic analysis, social work and other related social service organizations. Sociology majors will take course work in sociology or related cross-listed courses. The sociology advisor will assist in developing a degree plan that best suits the needs of the individual student.

# College of Business

## Our Mission

The College of Business at The University of Texas Permian Basin provides responsive and innovative programs enhancing the quality of life of its students, graduates, and the community. We advance business and energy industry research, economic competitiveness, and diversification, while connecting students to transformative opportunities. Through excellence in teaching, the college empowers student success and facilitates outstanding career, personal, and community outcomes, developing next-generation leaders and entrepreneurs.

## Accreditation

The College of Business is accredited by these agencies:

1. SACSCOC (Southern Association of Colleges and Schools Commission on Colleges). This is the university regional accrediting body.
2. AACSB (Association to Advance Collegiate Schools of Business). This is the business program accrediting body. It applies to accounting, finance, management, marketing, and the business master's programs. It is considered the premier accrediting agency.

The College of Business has an active chapter of Beta Gamma Sigma, International Honor Society. A student must be in the top 10% of the junior, senior, or graduate classes to be eligible for induction. Eligible students are inducted into Beta Gamma Sigma in the spring of each academic year.

## Correspondence Coursework

The College of Business does not offer courses by correspondence. A student may apply appropriate correspondence credit earned from a regionally accredited college or university toward a bachelor's degree subject to the following limitations:

1. No upper-level business courses may be taken by correspondence.
2. A correspondence course may not be taken on a pass-fail basis, and no grade lower than a C will be accepted for correspondence credit.

## Programs

BBA	Accountancy, BBA
BBA	Energy Land Management, BBA
BBA	Finance, BBA
BBA	Healthcare Management, BBA
BBA	Management, BBA
BBA	Marketing, BBA

BA        Economics

BS        Industrial Technology, BS

BAAS     Applied Arts and Sciences, BAAS

BAAS     Applied Arts and Sciences, BAAS

## Requirements for the BBA Degrees, the BA Degree, the BS Degrees, and the BAAS Degree General Requirements

Degree and major	Minimum semester credit hours required	Minimum upper level credit hours required	Minimum upper level credit hours that must be taken at UT Permian Basin	Minor required
BBA (all majors)	120	54	30	No
BA (Economics)	120	48	30	Yes
BS (Industrial Technology)	120	48	30	Yes
BAAS (All tracks)	120	42	30	Yes

To be eligible to receive a BBA in Accountancy, Energy Land Management, Finance, Healthcare Management, Management, or Marketing or a BA in Economics, at least 9 upper level semester credit hours of the required coursework in the major field must be successfully completed at UT Permian Basin. Required coursework in the major field includes specific required courses in the major field as well as electives required in the major field. The discipline coordinator must approve all upper level transfer hours in the major. Additionally, for all BBA majors, at least 50 percent of the upper-level business core must be taken from an AACSB-accredited program.

**The College of Business does not award double majors.** Students desiring a double major should seek a second baccalaureate degree. Other general requirements depend on the degree and major.

The Texas Higher Education Coordinating Board has approved the field of study curriculum for business and management. The following Texas Common Course Numbering System (TCCNS) courses are fully transferable to UT Permian Basin for students who first complete the field-of-study at another Texas public college or university: ACCT 2301, ACCT 2302, BCIS 1305, BUSI 1301, BUSI 2305, ECON 2301 and ECON 2302, and MATH 1324. ECON 2301, ECON 2302, and MATH 1324 also satisfy the Common Core (General Education Requirements). The first ECON course can be used to satisfy the social science requirement and the second ECON course can be used to satisfy the component area option in the Common Core.

## Grade Requirements

Students must earn a grade of "C" or better in all required and elective major courses for all BBA majors, Economics, Industrial Technology, and the BAAS degree.

The College of Business has additional grade policies that apply to the BBA degrees.

1. The College of Business requires a GPA of 2.25 in the following courses: COMM 1315, ENGL 1301, ENGL 1302, MATH 1324, ACCT 2301, ACCT 2302, BUSI 1301, BUSI 2342, BUSI 2345 and ECON 2302..
2. Students must achieve a minimum cumulative GPA of 2.0 on all upper level business core courses, the capstone course, and all business elective courses.

## **General Prerequisites to Upper Level Business Courses**

### **Students Who Choose Non-Declared Business as Their Major**

The purpose of a Non-Declared Business major is to permit students who are interested in a business major to enroll in upper-level business core courses to explore their options before declaring a major. Students who choose Non-Declared Business as their major may not take upper level coursework beyond the upper level business core until they have enrolled in a business major of Accountancy, Energy Land Management, Finance, Healthcare Management, Management, or Marketing. The advisor assigned by the Success Center to the College of Business will advise all Non-Declared Business majors.

### **Students Intending to Minor in a Business Discipline**

A student majoring in another field besides the BBA may elect to minor in Accountancy, Business, Entrepreneurship, Finance, Healthcare Management, Management, or Marketing by completing 18-21 credit hours in the designated minor. Each minor includes at least nine hours of upper level business courses. Students pursuing a minor in a business field may take upper level business courses beyond the list of open business classes below upon completion of 54 credit hours in their major degree plan including ENGL 1301 and ENGL 1302 and speech, a mathematics sequence, and computer literacy as required in their major as well as any specific course prerequisites.

### **Business Course Availability for Students not Pursuing a Business Major or Minor**

Upper level business courses are restricted to BBA and non-declared business majors, business minors, Industrial Technology (ITEC) majors and minors, BAAS majors, and students who meet the entrance requirements for being a business major or business minor. Non-business majors, including business minors, must take less than 25% of their undergraduate program in business. This means, for example, that a student with a degree plan consisting of 120 credit hours may not take more than 29 credit hours of business courses (ACCT, BUSI, FINA, MNGT, MRKT).

### **Business Discipline Specific Minors**

Business discipline-specific minors are available for Accountancy, Business, Entrepreneurship, Finance, Healthcare Management, Management, or Marketing. Each minor gives the non-business student a specialized background in the selected field. At least 50% of upper-level business credit hours in the minor must be taken at UT Permian Basin. Students pursuing a business discipline-specific minor must meet all prerequisites for courses included in the minor, even if these prerequisites cause the minor coursework to exceed the number of credit hours listed below. See the course descriptions in the major area to ascertain the prerequisites for each course. A listing of the departments within the College of Business can be found at <https://www.utpb.edu/academics/colleges/business/departments/cb-department>

# Department of Accounting, Finance, and Economics

Administered by the Department of Accounting, Finance, and Economics within the College of Business  
<https://www.utpb.edu/academics/colleges/business/departments/accounting-finance-economics/index>

## Accountancy

Administered by the College of Business, Accountancy is a discipline involving quantitative and qualitative information essential to the decision-making functions required in every type of organization.

The Bachelor of Business Administration (BBA) degree with a major in Accountancy affords the opportunity for students to prepare for careers in managerial, governmental and not-for-profit accounting. Individuals who have earned a BBA degree with a major in Accountancy are encouraged to seek appropriate professional certifications such as CMA (Certified Management Accountant), CIA (Certified Internal Auditor), CFE (Certified Fraud Examiner), and CISA (Certified Information Systems Auditor). Individuals can also pursue the CPA (Certified Public Accountant) Certificate with a BBA, but must have 150 hours of educational credits to qualify for the exam.

Students who wish to pursue the CPA (Certified Public Accountant) designation need 150 credit hours to meet Texas Certification requirements. Students seeking to become a CPA are advised to follow the BBA in Accountancy with a Master of Professional Accountancy (MPA) degree or a Master of Business Administration (MBA) degree. For more information on this degree, please refer to the appropriate section of the *Graduate Catalog*. BBA students should work closely with an academic advisor in preparing for the MPA or MBA degree in order to avoid additional courses. A Dual Degree Program leading to a concurrent BBA and MPA is available for qualified students. The Dual Degree Program description and requirements follow the BBA requirements below.

## Economics

The Economics program is designed to afford students the opportunity to prepare as economists or to serve other disciplines, such as accounting, finance, management, marketing, government, education, sociology or history. Economics includes two broad areas: microeconomics and macroeconomics.

A basic understanding of economics is essential for a well-informed citizenry since most of today's problems have important economic aspects. It is also a vital discipline for, and is of practical value in, business decision-making. An understanding of the overall operation of the economic system puts businesses in a better position to formulate policies. Microeconomics is an area applicable to any study of human endeavor where scarce resources must be allocated among competing uses. It is the study of humankind's behavior in producing, exchanging and consuming material goods and services. Macroeconomics includes the study of the performance of the economy as a whole and includes such problems as inflation, unemployment and the rate of economic growth. Both areas include forecasting, a skill enabling individuals, firms and governmental bodies to adjust to anticipated economic conditions. In economics, problems are examined from a social, rather than an individual, point of view.

A Bachelor of Arts (BA) degree in Economics aims to prepare students for participation in public affairs, positions in business and government service. It offers a strong foundation for pre-law students and for further graduate study leading to teaching and research positions in universities, government and private enterprise.

## **Finance**

The College of Business administers the Bachelor of Business Administration (BBA) with a major in Finance. The degree provides an understanding of financial markets, financial institutions, and financial decision-making of businesses. The course work provides training in conceptual and quantitative tools that a financial professional needs to know to be successful. Finance is a discipline that is grounded in economics and draws many of its tools from accounting. Thus a Finance major takes courses in economics and accounting beyond those required of all business majors.

## **Department of Management, Marketing, and Industrial Technology**

Administered by the Department of Management, Marketing, and Industrial Technology within the College of Business  
<https://www.utpb.edu/academics/colleges/business/departments/management-marketing-industrial-tech/index>

## **Management**

The primary goal of the Management program is to give students an understanding of the nature and capabilities of people working in organizations. Faculty and business leaders believe an understanding of management theory and research provides the foundation for effective application and practice in the business environment. This foundation prepares students for careers in management such as administrators, executives, human resource managers, management consultants or entrepreneurs.

## **Marketing**

The Bachelor of Business Administration degree in Marketing is designed to provide a broad fundamental knowledge of the nature, structure, institutions, and functions of marketing. The student graduating with the degree can expect to be competitive in the general contexts of sales and marketing. In addition, the student will be able to analyze information that are critical to making marketing decisions whether in manufacturing, distribution (including retailing), service, or not-for-profit industry sectors.

## **Industrial Technology**

Industrial Technology is a field of study designed to prepare technical and/or management professionals for employment in business, industry, education, and government. Industrial Technology is primarily involved with the management, operation, and maintenance of complex technological systems. The program also offers a specialization and a certificate in petroleum technology. Students pursuing a Bachelor of Science (B.S.) in Industrial Technology degree receive a broad based general Industrial Technology education. Graduates of the program will be equipped to meet the new and emerging challenge of a modern high technology society.

# College of Education

The College of Education produces teachers, counselors, and administrators who immediately impact and improve their community—wherever it may be. The college boasts experienced faculty and staff who create the best learning environment possible. The College of Education takes West Texas' educators to the next level. A listing of the departments within the College of Education can be found at <https://www.utpb.edu/academics/colleges/education/departments/cd-department>

Accredited by The Texas Education Agency and The Council for the Accreditation of Educator Preparation

For Information Contact (432) 552-2120 or go by MB 3214

The College of Education at UT Permian Basin is state accredited by Texas Education Agency and nationally accredited by the Council for the Accreditation of Educator Preparation (CAEP) from 2013 to 2021. This accreditation does not include individual education courses that the College of Education may offer to P-12 educators for professional development, re-certification, or other purposes.

We are one of only two universities within The UT System who have this distinction. The following Conceptual Framework outlines the vision, mission, and anticipated learning outcomes for the candidates in our programs. Please visit the CAEP web site at [www.caepnet.org](http://www.caepnet.org) for more information.

## Conceptual Framework

The **vision** of the College of Education is a community of lifelong learners who actively reflect on the impact of their values, attitudes, beliefs, and practices.

The **mission** of the College of Education is to prepare pre-service and professional educators who are proactive in nurturing the lifelong development of all learners. This mission will be accomplished by:

- Facilitating the acquisition of necessary knowledge, skills, and dispositions;
- Cultivating the value of diversity;
- Encouraging collaborative inquiry, innovation, and research;
- Promoting collegiality and service in schools and communities;
- Integrating technology into practice;
- Providing opportunities for professional growth; and
- Influencing educational practices and policies at the local, state, and national level.

The **learning outcomes** expected are that teacher candidates will:

- Demonstrate content knowledge in their respective content area;
- Use appropriate processes and teaching practices;
- Apply knowledge about child and adolescent development;
- Incorporate knowledge of diversity in planning and delivering instruction;
- Incorporate technology in planning and delivering instruction;
- Plan for and assess students' learning;
- Create an appropriate learning environment;
- Communicate and collaborate with all stakeholders; and

- Engage in professional growth.

As part of its teacher certification program, the College of Education emphasizes experiential learning through field-based applications in which students spend a significant amount of time in public school classroom settings applying acquired knowledge to a variety of learning situations. Candidates for certification must actively demonstrate proficiency in the knowledge, skills, and dispositions contained in the learning outcomes through assessment strategies such as portfolios, reflective journals, and other performance-based assessment strategies.

## US PREP

UT Permian Basin's College of Education assures excellence in our teacher education programs through affiliation with US PREP (University-School Partnerships for Renewal of Educator Preparation). As a member of the national US PREP coalition, we focus on high quality partnerships with our local school districts, assure that our curriculum is linked to research focused on serving diverse students, and focus on continuous improvement based on analyzing data on our program outcomes. Our Education majors have the opportunity to participate in a paid yearlong residency with one of our partner school districts. In the yearlong residency, teacher candidates engage in a P-12 classroom for their entire senior year while they also are completing their university coursework. Our partner school districts are currently offering candidates the opportunity to earn up to \$24,000 plus employee benefits while participating in the yearlong residency.

## UTeach Permian Basin

The UT Permian Basin College of Education, in collaboration with the UTPB College of Arts and Science, is a partner in the UTeach network to prepare highly qualified science and mathematics teachers. UTeach Permian Basin is a middle and high school mathematics and high school teacher preparation program whereby students complete a bachelor's degree in mathematics or a science discipline in four (4) years, while simultaneously completing requirements for teacher certification. UTeach Permian Basin graduates are highly skilled educators with deep subject expertise and proficiency in high impact instruction. Co-directors for UTeach Permian Basin are Dr. David Sparks (Education) and Dr. Milka Montes (Chemistry).

## Areas of Teacher Certification

### Early Childhood (PreK-Grade 3) \*available at undergraduate level only

- Early Childhood (PK-3)
- Early Childhood (PK-3) with Bilingual Supplement
- Early Childhood (PK-3) with ESL Supplement
- Early Childhood (PK-3) with Special Education EC-12

### Elementary (Early Childhood-Grade 6)

- Core Subjects with STR (EC-6)
- Core Subjects with STR (EC-6) with Bilingual Supplement
- Core Subjects with STR (EC-6) with ESL Supplement
- Core Subjects with STR (EC-6) with Special Education EC-12

### Middle Grades (Grades 4-8)

- Core Subjects with STR (4-8)
- Core Subjects with STR (4-8) with Bilingual Supplement
- Core Subjects with STR (4-8) with ESL Supplement
- Core Subjects with STR (4-8) with Special Education EC-12



- English Language Arts/Reading with STR
- Social Studies
- Mathematics
- Science

**Early Childhood – Grade 12**

- Art
- Music
- Physical Education
- Languages Other Than English – Spanish
- Special Education

**Grades 6 – 12**

- Physical Science

**Grades 7 – 12**

- Chemistry
- English Language Arts & Reading
- History
- Life Science
- Mathematics
- Science
- Social Studies
- Speech

**Supplemental Certifications**

- Bilingual Education
- English as a Second Language (ESL)
- Special Education

## **Undergraduate Certification while earning a BA or BS Degree**

Undergraduates seeking teacher certification earn their bachelor's degree while also completing the requirements for certification. Students typically complete an Education major, or a disciplinary major and supporting minor, and should consult with faculty members in those disciplines for help in planning a program of study.

## **Post-Bachelors Certification**

Individuals already holding a bachelor's degree and desiring to become certified to teach may be eligible to enroll in the post-bachelors or alternative "Fast Track" certification program. Information about the post-bachelors program is available on the College of Education's web site and from the Educator Program Services (EPS) Office.

## **Requirements for Certification**

Persons entering the program under this catalog who intend to receive traditional teacher certification through UT Permian Basin must meet the following requirements:

- Apply and be admitted to the Teacher Preparation Program.

- Complete specified course work in the teaching field with a GPA of 2.50 or higher.
- Complete all course work used to satisfy certification requirements with no grade below a "C".
- Successfully complete clinical teaching or teaching internship requirements.
- Pass state examinations of pedagogy and teaching specializations. Students seeking to take such examinations must, prior to issuance of approval, meet university guidelines for eligibility.
- Complete a bachelor's degree in an approved area. The overall GPA must meet Texas Education Agency standards in effect at the time of a candidate's admission to the preparation program.

Candidates for certification must be free of felony or misdemeanor convictions for any crime directly related to the duties and responsibilities of the teaching profession. A candidate with a conviction should consult the Certification Officer regarding his or her eligibility to enter or continue in the program. Prior to field experience, clinical teaching, and employment as an educator, candidates must undergo a criminal history background check.

## Admission to the Teacher Preparation Program

Students must be formally admitted to the teacher preparation program to take education courses beyond the introductory level. These admission criteria are required of applicants, effective Spring 2017:

- Completed  $\geq 45$  semester credit hours (includes transfer and UT Permian Basin courses).
- GPA  $\geq 2.50$  overall or on last 60 credit hours (includes transfer and UT Permian Basin courses).
- All TSI requirements met.
- Earned  $\geq 12$  SCH in the intended content area ( $\geq 15$  SCH for grades 4-8 or 7-12 math or science).
- Certification plan and degree plan filed with the Certification Office.
- Complete an interview or a focused essay, as directed by the program.
- Create an application to the teacher certification program in our Tk20 portal.

## Readmission Policy

Certification students who have been inactive for two or more successive long semesters must have their certification plan reevaluated, and may be required to apply for readmission to the program.

## Maximum Age of Education Courses

The maximum age of education courses to be used for certification purposes is five years. Courses more than five years old may be applied upon the written approval of the Dean.

## Required Field Experiences

Candidates for any teaching certificate participate in extensive field experiences in the public schools. Requirements for these activities vary by course and certification area. Teacher candidates must apply and be accepted into the educator preparation program prior to placement in public schools. Teacher candidates will apply for field experiences through the Director of Field Experiences. University students pursuing minors in the College of Education which do not lead to Texas teacher certification, such as the Special Populations minor, will conduct field experiences in appropriate settings in schools or in the community based on requirements of the course. Such students will apply for placement as a non-certification seeking student.

# Student Clinical Teaching, Teacher Residency, or Internship

Clinical teaching or year-long teacher residency is the culminating experience in a candidate's preparation to become a teacher. Candidates who meet the entrance criteria will enroll in clinical teaching or teacher residency in the final year of their preparation program. Arrangements for clinical teaching assignments and teacher residency placements are made by the Director of Field Experiences and Clinical Teaching in partnership with the school districts. Candidates do not arrange their own placements.

Clinical Teaching is a semester-long experience for a minimum of 14 weeks. There is no clinical teaching in the summer. Clinical teachers will follow the calendar of the school district where they have their placement and not the UTPB calendar, including the first day of instruction for the ISD (January or August). Clinical teachers have the opportunity to practice the theories and teaching methods from their college classes in the classrooms of our partner districts, under the guidance and support of an experienced mentor teacher and a university field supervisor.

Teacher Residency is a year-long experience in a P-12 classroom to prepare teacher candidates with a deeper experience to enhance their teaching skills for Day 1 success upon entering their career. There is no teacher residency in the summer. Residents will follow the calendar of the school district where they have their assignment and not the UTPB calendar, including the preservice days for the ISD prior to the first instructional day in August. Teacher residents are paired with a master teacher who will supervise and support their hands-on classroom experiences, with additional support by university site coordinators as they collaborate with a cohort of peers. Our partner school districts are currently offering candidates the opportunity to earn up to \$24,000 plus employee benefits while participating in the yearlong residency.

Teaching Internships are completed as a contracted teacher for one year and are only available to candidates who have completed a bachelor's degree and who qualify for a one-year intern teaching certificate from the Texas Education Agency.

Candidates for student clinical teaching, residency, or internship must have a 2.50 overall GPA or the standard in effect at the time of a candidate's admission to the program. Candidates for clinical teaching may lack no more than 2 courses plus clinical teaching to finish their degree, or permission obtained for any exception. Candidates for teacher residency may lack no more than 30 semester credit hours to finish their degree, or permission obtained for any exception. The appropriate TExES exams must be attempted prior to clinical teaching and prior to the second semester of teacher residency. Candidates for internship must have a bachelor's degree or higher, and must have passed the appropriate content area TExES exam.

Applications for admission to student clinical teaching must be received by the following dates:

Fall Clinical Teaching	Application Deadline is March 15th
Spring Clinical Teaching	Application Deadline is October 15th
Year-long Teacher Residency	Application Deadline is March 30th

## Certification Testing Requirements

Candidates for certification must pass appropriate Texas Examinations of Educator Standards (TExES): one or more in the content-area and one in pedagogy and professional practices. Candidates seeking Bilingual certification must also pass the Bilingual Target Language Proficiency Test (BTLPT). Candidates who are seeking to take examinations through UT Permian Basin must, prior to approval, demonstrate their preparedness on representative pretests or through satisfactory completion of an approved plan of study. Coursework or tutoring will be recommended and may be required for students who are unsuccessful on pretests.

# Content Area Requirements

As part of their academic preparation, candidates for certification in content-area specializations must have completed the courses required for the appropriate academic major. Candidates for certification in multi-subject specializations must complete the appropriate major, minor, and any supporting courses.

- Art EC-12: Complete the courses for the BA in Art.
- Chemistry 7-12: Complete the courses for the BS in Chemistry, Teacher Certification Track.
- Core Subjects EC-6: Complete the courses for the BA in Education-Elementary (EC-6).
- Core Subjects 4-8: Complete the courses for the BA in Education-Middle Grades (4-8).
- Early Childhood PK-3: Complete the courses for the BA in Education-Early Childhood (PK-3).
- English Language Arts & Reading 4-8: Complete the courses for the BA in English, ELAR Grades 4-8 Track.
- English Language Arts & Reading 7-12: Complete the courses for the BA in English, 7-12 Certification Track.
- English Language Arts, Reading, & Social Studies 4-8: Complete the courses for the BA in English ELAR Grades 4-8 Track with a minor in History.
- History 7-12: Complete the courses for the BA in History.
- Languages Other Than English: Spanish EC-12: Complete the courses for the BA in Spanish.
- Life Science 7-12: Complete the courses for the BS in Biology.
- Mathematics 4-8: Complete the courses for the BS in Mathematics, 4-8 Teacher Certification, or for the BA in Education-Middle Grades 4-8 with 24 credit hours in mathematics, including 12 credits at the 3000-level or higher.
- Mathematics 7-12: Complete the courses for the BS in Mathematics, 7-12 Teacher Certification.
- Music EC-12: Complete the courses for the BM in Music.
- Physical Education EC-12: Complete the courses for the BS in Human Performance, Physical Education Concentration.
- Science 4-8: Complete the courses for the BS in Biology with a minor in Chemistry. In addition complete PHYS 1301/1101.
- Science 7-12: Complete the courses for the BS in Biology with a minor in Chemistry, or for the BS in Chemistry with a minor in Biology. In addition complete PHYS 1301/1101 or PHYS 2325/2125.
- Social Studies 4-8: Complete the courses for the BA in History with a minor in Political Science.
- Social Studies 7-12: Complete the courses for the BA in History with a minor in Political Science.
- Speech 7-12: Complete the courses for the BA in Communication.

## Restricted Courses

Enrollment in the following courses is restricted to students who have applied for and been accepted into the Teacher Certification Program: EDUC 4312, 4315, 4316, 4317, 4321, 4322, 4324, 4325, 4326, 4327, 4333, 4334, 4343, 4336, 4363, 4370, 4371, 4372, 4373, 4374, 4375, 4376, 4377, and 4378.

Enrollment in the following courses is restricted to students who have applied for and been accepted into Clinical Teaching, Teaching Residency, or Internship: EDUC 4099, 4381, 4382, 4383, 4681, 4682, 4684, 4685, 4686, 4692, 4693, and 4694.

# Bilingual Studies Minor

**Dr. Yolanda Salgado, Ph.D.**

Associate Professor of Education  
Area Coordinator for Bilingual/ESL Education

Bilingual Education concerns are part of Dr. Salgado's agenda in her teaching, research, and service activities. Her focus of study seeks to identify the different perceptions that communities of immigrant parents take into consideration when making decisions for their child's placement in a public school classroom.

# Child and Family Studies

Administered by the Department of Curriculum and Instruction within the College of Education.

The Child and Family Studies major is designed to provide a sound academic foundation for persons planning to work with and/or study children and their families in various contexts. Students will take coursework focusing on typical and atypical development of children, roles children play in our overall society, diverse relationships within families, multicultural perspectives of the family, and methods used to research issues related to children and their families. After graduating, students may pursue careers in early childhood program management, social agencies, non-profit foundations, teaching or other service/organization related to children and families. In addition, they may wish to continue their education in graduate programs or professional schools.

In the Child and Family Studies major, students must choose a focus of study from one of three tracks: Learning and Development; Social Agencies; or Applied Research. The Learning and Development track focuses on the physical, social, emotional and cognitive development of children; issues that involve relationships among families with children; and atypical development of children. Some students in this track also seek teacher certification. The Social Agencies track takes a multicultural perspective on issues related to children and families in society. It includes courses dealing with social work, health, and other topics related to the child and the modern family. Designed to appeal to students interested in scientifically investigating issues in child and family development, the Applied Research track includes: the study of life-span development; examination of social, cognitive, health and atypical development; and applications of research to developmental issues.

This major is designed to facilitate a seamless transition to UT Permian Basin for the community college student who has completed Texas Early Childhood Articulated (TECA) courses. The TECA courses that are incorporated into the program include: TECA 1303 Families, School, and Community; TECA 1311 Educating Young Children; TECA 1318 Wellness of the Young Child; and TECA 1354 Child Growth and Development.

# Education

Administered by the Department of Curriculum and Instruction within the College of Education.

The Education major is designed to provide future early childhood, elementary, and middle school teachers with a sound academic foundation in the Humanities, Science, Mathematics, and Social Sciences, joined with preparation in Reading and Pedagogy. Drawing on a rich tradition of interdisciplinary study, the primary objective of the program is to provide future teachers with the academic knowledge and pedagogical competency to become effective classroom educators.

The Education degree features tracks for Early Childhood (grades PreK-3), Elementary, Grades EC-6, and Middle Grades 4-8 teacher certification, and a General Studies track for students who are not seeking certification.

## **Reading Minor**

Administered by the Department of Literacy, Language, and Special Populations within the College of Education.

The Reading Minor allows the student to develop his or her knowledge of the complex processes involved in learning to read and write. The Reading minor is appropriate for prospective teachers seeking to strengthen their background preparation in this critical area. The courses offer students opportunities to work in a variety of contexts with readers at different developmental levels, from diverse linguistic, cultural, and socioeconomic backgrounds. To consult with a faculty advisor, call (432) 552-2145.

## **Special Populations Minor**

Administered by the Department of Literacy, Language, and Special Populations within the College of Education, the Special Populations Minor provides insight and understanding into the world of the exceptional children, especially primary and secondary school students.

# College of Engineering

The engineering programs, through its curricula, strive 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. Students who successfully complete one of the engineering programs will be technically prepared and broadly educated, ready to make a significant contribution to society.

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 engineering accomplishments will increase energy and food supplies, develop more contamination-free power plants, aid in medical science's fight against disease, and dramatically expand our computational and design skills. While scientists "explore what is," engineers "create what never has been."

A listing of the departments within the College of Engineering can be found at <https://www.utpb.edu/academics/colleges/engineering/departments/ce-department>

## Department of Chemical Engineering

Administered by the Department Chemical Engineering within the College of Engineering. <https://www.utpb.edu/academics/colleges/engineering/departments/chemical-engineering/index>

The Chemical Engineering program prepares engineers with necessary skills and knowledge to enter diverse job markets locally and globally. The energy sector in West Texas is thriving and chemical engineering graduates of the program are expected to find ample job opportunities in the local energy industry. Chemical engineers use all tools of other engineering disciplines plus applied chemistry.

## Department of Electrical Engineering

Administered by the Department of Electrical Engineering within the College of Engineering. <https://www.utpb.edu/academics/colleges/engineering/departments/ce-department>

The Electrical Engineering program covers a broad range of topics from circuits, automatic controls, micro-electronics, digital circuits, computers, communications, electric machines, electromagnetics, computer networks, signals, image and speech processing, and power systems. Electrical engineers design, develop, and test electrical systems, motors, generators, electronics, computer hardware, computer software, and communications systems that include the internet, Global Positioning Systems (GPS) and cellular networks.

Electrical engineers work in the following industries: automotive, aerospace, semiconductor, electromechanical, control instruments, computer, communication, electric power generation, transmission and distribution, oil refineries, research and development, and manufacturing. They are employed in virtually all commercial industries and governmental agencies. Electrical engineers are responsible for bringing you electricity, cellular phones, music, television, automobiles, computers and the internet, to name only a few. Electrical engineers work in offices and may visit different manufacturing or testing sites.

The Bureau of Labor Statistics predicts a 7% growth nationwide. Electrical engineers have annual mean salaries of \$ 93000 to \$ 128,000, varying from industry to industry and region to region. Electrical engineers are at the forefront of information technologies and they innovate, create, design and bring to market things that are useful to improve the human condition.

### **Program Educational Objectives**

The Electrical Engineering program offers an educational experience that enables graduates to:

1. Obtain professional-level employment in the Electrical Engineering field.
2. Practice Electrical Engineering in a wide variety of private and government institutions.
3. Work in diverse, multi-disciplinary teams and possess leadership skills, ethical standards, environmental concerns and social awareness.
4. Engage in lifelong-learning, participate in professional organizations and, if desired, pursue graduate studies.
5. Obtain licensure as a professional engineer.

Consistent with the existing Bachelor of Science (B.S.) degree programs in engineering, a minimum of 126 semester credit hours is required for the B.S. degree in Electrical Engineering. This degree requires a minimum of 55 upper division hours. Since all students seeking a B.S. degree in Electrical Engineering are required to take a cross-section of courses from a variety of engineering disciplines, the College does not award double majors. Students desiring a double major should seek a second baccalaureate degree. Minors are not required of students seeking a B.S. degree in Electrical Engineering.

## **Department of Mechanical Engineering**

The mechanical engineer may design a component, a machine, a system or a process. Mechanical engineers analyze their design using the principles of physics to insure the product functions safely, efficiently, reliably, and can be manufactured at a competitive cost. Mechanical engineers work in automotive, aerospace, chemical, computer, communication, paper, and power generation industries. Mechanical engineers are found in virtually any manufacturing industry.

Administered by the Department of Mechanical Engineering within the College of Engineering. <https://www.utpb.edu/academics/colleges/engineering/departments/mechanical-engineering/index>

## **Department of Petroleum Engineering**

Administered by the Department of Petroleum Engineering within the College of Engineering <https://www.utpb.edu/academics/colleges/engineering/departments/petroleum-engineering/index>

Petroleum engineering is a broad-based discipline primarily concerned with the development, exploration, conservation and transportation of oil and gas resources. Petroleum engineers plan and supervise drilling and well-completion programs, design and select drilling and production equipment, estimate reserves and manage oil and gas properties. A petroleum engineering graduate may obtain a responsible position with an oil company, establish a consulting business, or become an independent oil producer. In general, a petroleum and natural gas engineer may find employment with any industry as well as state or federal institutions which require a specialist in activities related to producing and injecting fluids by means of well bores.



# College of Health Sciences and Human Performance

The College of Health Sciences and Human Performance serves a diverse community of students from the region, the state, and beyond. Areas within CoHSHP include the School of Nursing, Department of Athletic Training, Department of Community and Family Health, Department of Kinesiology, Department of Social Work, Public Health Minor, and Simulation and Learning Resource Center and Clinical Labs.

A listing of the departments within the College of Health Sciences and Human Performance can be found at <https://www.utpb.edu/academics/colleges/cohshp/departments/cohshp-departments>

## Department of Human Performance

The UT Permian Basin Athletic Training Program teaches prevention, diagnosis, care, and rehabilitation of injuries and medical conditions. Administered by the Department of Athletic Training within the College of Health Sciences and Human Performance <https://www.utpb.edu/academics/colleges/cohshp/departments/athletic-training/index>

Students in the UT Permian Basin Athletic Training program receive their academic course work and practical hands-on experience under the supervision of nationally-certified and state-licensed athletic trainers. The faculty members are highly-trained and experienced professionals who are passionate about the success of their students. Students receive personalized attention during their time at UT Permian Basin that is incredibly beneficial as our graduates move into the exciting occupational opportunities for an Athletic Trainer.

Administered by the Department of Kinesiology within the College of Health Sciences and Human Performance. <https://www.utpb.edu/academics/colleges/cohshp/departments/kinesiology/index>

Kinesiology majors have the opportunity for a rewarding career where they improve people's lives. They learn how the body works, how to help treat injuries, and how to use their skills as medicine for their patients and customers.

The Kinesiology careers employment outlook is estimated to grow much faster than average\* due to increased demand as health care providers promote exercise and preventative care. (\*Source: <https://www.bls.gov/ooh/healthcare/exercise-physiologists.html>)

UT Permian Basin Department of Kinesiology is based in the new D. Kirk Edwards Family Human Performance Building located in the north side of campus. This state-of-the-art facility opened in 2020, giving students access to cutting-edge, professional-grade equipment including hot and cold hydrotherapy pools and a biomechanics lab equipped with the latest tools to prepare students for a professional career.

## Department of Nursing

Administered by the College of Health Sciences and Human Performance. <https://www.utpb.edu/academics/colleges/cohshp/nursing/index>

General Information: 432-552-2560

For Admissions information: 432-552-4560

### **Bachelor of Science Degree in Nursing (BSN)**

- Application Deadline: March 1 for Fall admission; August 1 for Spring admission
- Application Available: All year round
- Length of Program: 4 years (2 years general education courses, 2 years nursing courses)
- Degree Awarded: Bachelor of Science in Nursing
- Must attend Mandatory Information Session prior to the first semester of the Nursing Program

UT Permian Basin provides a generic pre-licensure Bachelor of Science degree in Nursing (BSN). The degree is science based, patient centered, and care driven. The four year curriculum is arranged so that in the first two years of study the students take science courses with other pre-health professionals as well as courses in the social sciences that help students understand human behavior and gain insight into the human spirit.

The nursing courses are taken during the third and fourth years of the program. The nursing curriculum is both theoretical and practical. Students are prepared to problem-solve based on evidence and research while including the patient as the main source of information. Strong clinical experiences are provided in the community and regional healthcare facilities and in the use of the UT Permian Basin state of the art Nursing Simulation Center. The BSN program prepares graduates to work in a wide variety of clinical settings and provides the necessary foundation for masters and doctoral degrees in nursing.

The professional faculty is committed to preparing graduates that are caring, scholarly and imaginative to coordinate and provide care in a variety of complex healthcare settings. Graduates of the BSN program will be prepared to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

### **RN to BSN Online Degree Program**

Admission Requirements for The RN-BSN Online Program:

1. Must hold a current RN license to practice professional nursing in Texas or other state recognized by the NCLEX-RN Council of Nursing.
2. Must be a graduate of a professional nursing program approved by the Texas State Board of Nursing, or appropriate State Board of Nursing.
3. Must be a graduate of a nationally accredited professional nursing program.
4. Must obtain successful admission to the University of Texas Permian Basin. At the time of application to the university, students must apply to the RN-BSN nursing degree track.
5. After admission to UT Permian Basin, the student must contact the Nursing Admission Officer for completion of the nursing degree plan.

It is the goal of the University for the graduates to provide evidence-based nursing care congruent with the 2010 Institute of Medicine (IOM) Report on the Future of Nursing, which recommended that nurses should receive higher education and training, be full partners with physicians and other healthcare professionals in redesigning health care, and be engaged in life-long learning to provide high quality safe care for a diverse population.

The program is built on a person-centered framework where the patient is the most important person of the healthcare team. The Overriding Pillars of the framework are Caring, Scholarship, and Imagination.

# Department of Social Work

Administered by the Department of Social Work within the College of Health Sciences and Human Performance.  
<https://www.utpb.edu/academics/colleges/cohshp/departments/social-work/index>

## Accreditation

The Bachelor of Social Work Program at UT Permian Basin was fully accredited by the Council on Social Work Education in June, 2007, and re-accredited with Full Accreditation in June, 2011 for the standard CSWE 8-year cycle. All graduates of this program are eligible to sit for the LBSW licensing examination given by the Texas State Board of Examiners for Social Workers, and therefore eligible to be licensed as baccalaureate social workers in the state of Texas.

## Mission Statement

The primary mission of the Social Work Program is to train generalist social work professionals capable of providing culturally competent services within diverse, multicultural communities. Through all its activities, the program seeks to foster the fulfillment of human potential, promote social and economic justice, and contribute to the development of a social culture that respects the dignity and worth of all members of society.

The Bachelor of Social Work (BSW) program is designed to provide training to prepare graduates for entry level generalist social work practice or for admission to a graduate program in social work. Such training includes helping students develop and strengthen their sense of social responsibility, appreciation for diversity, understanding of the realities of discrimination and oppression, and knowledge of core social work values, ethics, and skills. Specifically, the BSW program seeks to achieve the following goals:

- Prepare students for agency based generalist social work practice with individuals, families, and communities;
- Develop/strengthen the ability to apply critical thinking skills in a professional context;
- Understand the effects of diverse backgrounds and membership in a population-at-risk on individuals, families, and communities, and the mechanisms of oppression and discrimination;
- Understand that the professional roles and responsibilities of social workers include efforts to promote social and economic justice and alleviate unjust social, political, and economic conditions;
- Demonstrate the ability to carry out professional practice congruent with the NASW Code of Ethics, including the ability to practice without discrimination based on group membership;

The Bachelor in Social Work program prepares graduates to work in a variety of public and private service settings, including hospitals, long-term care facilities, mental health clinics, family service agencies, Texas regulatory agencies, schools, police and sheriff's departments, and a wide variety of other state, community, non-profit and for-profit agencies.

# Programs of Study

# Accountancy, BBA

## Degree Requirements

### Degree Requirements

1. The minimum total credits required for a BBA degree is 120.
2. At least 30 hours of upper-level courses must be completed at UTPB
3. The minimum number of upper-level credit hours is 54.
4. At least 50 percent of the upper-level business core must be taken from an AACSB-accredited program (12 sch).
5. The College of Business requires a GPA of 2.25 in the following lower-level courses: COMM 1315, ENGL 1301, ENGL 1302, MATH 1314, ACCT 2301, ACCT 2302, BUSI 1301, BUSI 2342, BUSI 2345, and ECON 2302.
6. Student must achieve a minimum cumulative GPA of 2.0 in all upper-level business core courses, the capstone course, and all business elective courses.
7. Students must receive a "C" or better in all required major courses including options and major electives.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3 or 4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch

- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch

### Social and Behavioral Sciences (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (3 sch)

- ECON 2302 Principles of Microeconomics 3 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch

- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Lower Level Business Courses (18 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- ACCT 2302 Principles of Managerial Accounting 3 sch
- BUSI 1301 Business Principles 3 sch
- BUSI 2342 Principles of Statistics 3 sch
- BUSI 2345 Data Analysis with Excel 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

## Business Core (24 sch)

- ACCT 3333 Information System Fundamentals 3 sch
- BUSI 3311 Business Communications 3 sch
- BUSI 3324 Business and the Law 3 sch
- FINA 3320 Principles of Finance 3 sch
- MNGT 3310 Principles of Management 3 sch
- MNGT 3340 Production Operations Management 3 sch
- MRKT 3300 Principles of Marketing 3 sch

### **Capston Class**

- MNGT 4375 Strategic Management 3 sch

## Upper Level Business Electives (9 sch)

- 9 sch of ACCT, BUSI, ECON, FINA, MNGT, or MRKT courses not already used to meet a requirement.

## Major Courses (27 sch)

- ACCT 3301 Intermediate Accounting I 3 sch
- ACCT 3302 Intermediate Accounting II 3 sch
- ACCT 3303 Cost Accounting Principles 3 sch
- ACCT 3305 Federal Income Tax 3 sch
- ACCT 4306 Auditing 3 sch
- ACCT 4311 Accounting Information Systems 3 sch
- Approved 6 hours upper division ACCT electives (6) sch
- FINA 4320 International Finance 3 sch

## Dual Degree Program

The Dual Degree Program in Professional Accountancy provides academically qualified students with the opportunity to add the depth of knowledge available through the Master of Professional Accountancy program to the breadth of the Bachelor of Business Administration degree in an accelerated program that reduces the overall credits for the two degrees to 150 credit hours. Upon completion of the 150 hours specified in the following plan of study, students will be awarded both a BBA and an MPA. No degree will be awarded until all requirements of the Dual Degree Program have been satisfied.

Admission into the Dual Degree Program in Professional Accountancy is open to all students who submit the required application materials and who satisfy the following requirements:

1. Submission of a Graduate Application indicating the Dual Degree Program.
2. Completion of at least three of the following four courses with a grade of B or better in each course and a combined GPA of at least 3.25: ACCT 3301, ACCT 3302, ACCT 3303, or ACCT 3305. Cumulative GPA of at least 3.0.
3. Completion of the GMAT. To qualify for admission, the combination of the GMAT score and cumulative GPA must be such that  $GPA \times 200 + GMAT \geq 1,120$  (Ex: 3.5 GPA and 500 GMAT score or 3.0 GPA and 600 GMAT score).

Students who do not qualify for the Dual Degree Program but who wish to pursue the MPA degree may do so by first completing the BBA degree in Accountancy and then applying for admission into the MPA program. Requirements for admission into the MPA program are discussed in the Master of Professional Accountancy section of the Graduate Catalog.

Degree candidates in the Dual Degree Program are required to maintain a GPA of at least 3.0 in every semester after being admitted to the program. Students in the Dual Degree Program will begin paying graduate tuition and related fees for all courses during the first semester in which the student enrolls in a graduate class.



# Applied Arts and Sciences, BAAS

The Bachelor of Applied Arts and Science (B.A.A.S.), administered by the College of Business, is a degree completion program that builds on previous post-secondary credit to offer students the career advancement opportunities a bachelor's degree provides. Students will have earned an Associate of Applied Science (A.A.S.) degree, its equivalent, or have sufficient transferable credit from an accredited community or technical college. The Admissions Officer, in collaboration with the B.A.A.S Program Coordinator, makes the determination on the transferability of credit.

The B.A.A.S. degree program design grows the professional management skills of the learner and meets the demand for leadership of highly technical professionals in the workplace. The B.A.A.S. degree will enhance student's technical education and will prepare them with leadership skills relevant in their respective working environments.

The B.A.A.S. program provides two defined tracks, Industrial Technology and Healthcare Leadership. The degree major and title on the degree and transcript is Bachelor of Applied Arts and Science (B.A.A.S.) regardless of the track a student pursues.

## Applied Arts and Science Degree Requirements

- The B.A.A.S. is available to students transferring to the University with an A.A.S. degree or equivalent coursework.
- Students must complete a minimum of 120 credit hours
- Student must complete a minimum of 42 upper-level hours, 30 of which must be complete at UTPB.
- A block of up to 33 semester credit hours (sch) of approved coursework from the technical field of the student's previous coursework as well as all transferable general education credit hours will be applied to the B.A.A.S. degree.
- Students pursuing the B.A.A.S degree will have to satisfy the 42 hour General Education Requirements by completing general education courses not taken previously.
- Obtain at least a "C" grade in all courses counting toward the Thematic Concentration
- Maintain at least a grade point average of 2.0 in all courses applicable toward the B.A.A.S degree.

## Students must select at Thematic Concentration for this degree

- Industrial Technology
- Healthcare Leadership

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

## Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch

- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### BAAS Professional Core (18 sch)

- MNGT 3310 Principles of Management 3 sch
- PSYC 3311 Social Psychology 3 sch   **OR**
- PSYC 4306 Industrial and Organizational Psychology 3 sch
- UNIV 3334
- HSHP 4320 Interpersonal and Communication Skills 3 sch
- PSYC 3301 Introductory Statistics 3 sch
- COMM 2333 Small Group Communication 3 sch   **OR**
- COMM 4360 Intercultural Communication 3 sch

### Thematic Concentration (15)

Student must select one (1) Thematic Concentration.

## ITEC Concentration

- ITEC 3310 Manufacturing Technology 3 sch
- ITEC 3340 Facilities Design 3 sch
- ITEC 3380 Technology Management 3 sch
- ITEC 4380 Total Quality Management 3 sch
- MNGT 4307 Project Management Elements 3 sch

## Health Leadership Concentration

- MNGT 3334 Healthcare Management Information Systems 3 sch
- ENGL 4333 The Twentieth-Century British Novel 3 sch
- MNGT 4331 Healthcare Management 3 sch
- MNGT 4337 Quality Improvement in Healthcare 3 sch
- MRKT 4335 Healthcare Marketing 3 sch

## BAAS Directed Electives (12 sch)

Students chooses courses from an approved list according to the thematic concentration. They may also take courses not on the list that are approved by their theme advisor.

# Art, BA

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BA degree.
2. Complete at least 120 sch for the BA degree. At least 48 sch must be completed at the junior/senior level, and 24 of the last 30 must be taken at U.T.P.B.
3. At least 30 sch must be taken at UTPB.
4. This degree requires a minor. Please refer to the catalog for specific requirements.
5. Obtain at least a C grade in all major courses. Maintain a GPA of 2.0 or C average in all courses applicable toward the BA degree.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch

- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Bachelor of Arts in Art with a Minor (42 sch)

The total semester credit hours required for a Bachelor of Arts – 4 years: Art (Art) is 120 sch. This option is designed for those students seeking a liberal arts degree with Art as a major. It is a 42 sch major (minimum of 24 sch at UT Permian Basin) with a minor (see catalog for minor choices and minor requirements) and gives students a broad based education in the visual arts.

All Art majors are required to meet the visual arts core prior to taking upper-level courses. Students transferring to UT Permian Basin must also meet these requirements before taking junior and senior level Art courses.

### Freshman Visual Arts Core (15 sch)

- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- ARTS 1311 Two-Dimensional Design 3 sch
- ARTS 1312 Three-Dimensional Design 3 sch
- ARTS 1316 Introduction to Drawing 3 sch

### Sophomore Courses (9 sch)

- ARTS 2310 Figure Composition I 3 sch
- ARTS 2348 Digital and Lens Imagery 3 sch
- Lower Level Art Elective (3 sch)

### Junior or Senior Level Art Requirements (18 sch)

- Sculpture (3 sch)
- Painting (3 sch)
- Printmaking (3 sch)
- Ceramics (3 sch)
- Drawing (3 sch)
- Art History (3 sch)

### Minor (18 sch)

Students earning a BA in Art must complete a minor.

### Junior or Senior Level Electives to Complete 120 sch (18 sch)

12 sch can be in Art.

## Exhibition Entry

Students pursuing the BA in Art are required to enter one art competition (local, area, state, national, or international) prior to graduation.



# Art, BA - Graphic Design

The Graphic Design emphasis will be within the Bachelor of Arts - 4 years: Art. The total semester credit hours required for the Graphic Design emphasis is 120 sch. The students will complete the required art core of 15 sch (5 classes). The emphasis will require 12 sch (4 classes) and an Internship in Graphic Design 3sch (1 class). Students will take additional studio and art history classes to fulfill the requirements for the graphic design emphasis.

Students must complete a minor from one of the following disciplines, Marketing, Communication or Computer Science to fulfill their Minor requirement (see catalog for minor requirements). The upper level electives of 6 sch (2 classes) can be taken in art or their minor. Students pursuing the graphic design emphasis are required to enter one competition (local, area, state, national, or international) prior to graduation.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch

- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Degree Requirements (54 sch)

All Art majors are required to meet the visual arts core prior to taking upper-level courses. Students transferring to UT Permian Basin must also meet these requirements before taking junior and senior level Art courses.

### Freshman Visual Arts Core (15 sch)

- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- ARTS 1311 Two-Dimensional Design 3 sch
- ARTS 1312 Three-Dimensional Design 3 sch
- ARTS 1316 Introduction to Drawing 3 sch

### Sophomore Courses (9 sch)

- ARTS 2310 Figure Composition I 3 sch
- ARTS 2348 Digital and Lens Imagery 3 sch
- ARTS 2358 Graphic Art: Typography 3 sch

### Junior or Senior Level Art Requirements (30 sch)

- Sculpture (3 sch)
- Painting (3 sch)
- Printmaking (3 sch)
- Drawing (3 sch)
- Ceramics (3 sch)
- Art History (3 sch)
- ARTS 3348
- ARTS 4348
- ARTS 4392
- Art Elective (3 sch)

### Minor (18 sch)

Students must complete a minor from one of the following disciplines:

- Marketing Minor

- Communication Minor
- Computer Science Minor

## Junior or Senior Level Electives to Complete 120 sch (6 sch)

Electives can be taken in art or the selected minor.

## Exhibition Entry

Students pursuing the graphic design emphasis are required to enter one art competition (local, area, state, national, or international) prior to graduation.

# Art, BFA

Bachelor of Fine Arts – 4 years: Art (General Fine Arts) at UT Permian Basin is a professional degree designed to provide students with the skills, knowledge, and experience necessary to become professional artists and designers, and to develop the kind of inquiring mind that will lead to continued study at an advanced or professional level in the field. The total semester credit hours required for a BFA in Art is 120.

Students pursuing a Bachelor of Fine Arts Degree are required to enter two competitions (local, area, state, national, or international) prior to graduation.

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BFA degree.
2. Complete at least 120 sch for the BFA degree. At least 48 sch must be completed at the junior/senior level, and 24 of the last 30 must be taken at U.T.P.B.
3. At least 30 sch must be taken at UTPB.
4. Obtain at least a C grade in all major courses. Maintain a GPA of 2.0 or C average in all courses applicable toward the BA degree.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Bachelor of Fine Arts

The BFA is a professional degree designed to provide students with the skills, knowledge and experiences necessary to become professional artists.

All Art majors will be required to meet the visual arts core or its equivalent. Students transferring to UT Permian Basin must also meet these requirements before taking junior and senior level Art courses.

### Freshman Visual Arts Core (15 sch)

- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- ARTS 1311 Two-Dimensional Design 3 sch
- ARTS 1312 Three-Dimensional Design 3 sch
- ARTS 1316 Introduction to Drawing 3 sch

### Sophomore Courses (12 sch)

- ARTS 2310 Figure Composition I 3 sch
- ARTS 2348 Digital and Lens Imagery 3 sch
- Lower Level Art Elective (3) sch
- Lower Level Art Elective (3) sch

### Junior or Senior Level Art Requirements (33 sch)

- Sculpture (3 sch)
- Painting (3 sch)
- Printmaking (3 sch)
- Ceramics (3 sch)
- Drawing (3 sch)

- ARTS 4393

### Two Art History courses before the Twentieth Century (6 sch)

- ARTS 3301 Women Artists I 3 sch
- ARTS 3303 American Art I 3 sch
- ARTS 4304 History of Nineteenth Century Art 3 sch
- ARTS 4305 History of Renaissance Art 3 sch

### Two Art History courses related to the Twentieth and Twenty-first Centuries (6 sch)

- ARTS 3302 Women Artists II 3 sch
- ARTS 3305 Modern Hispanic Art and Its Foundation 3 sch
- ARTS 4300 Concepts in Modern Art 3 sch
- ARTS 4301 Art since 1940 3 sch

### Junior or Senior Level Art Electives (21 sch)

- Art Studio Elective (3 sch)
- Art Studio Elective (3 sch)
- Art Studio Elective (3 sch)
- Art Studio Elective (3 sch)
- Art Studio Elective (3 sch)
- Art Studio Elective (3 sch)
- Art Studio Elective (3 sch)

### Two Competition Entries

Students pursuing the BFA in Art are required to enter two art competitions (local, area, state, national, or international) prior to graduation.



# Athletic Training, BS

Students desiring to pursue athletic training as a profession should begin this track early in their college career. The program requires 6 fall and spring semesters of clinical education, following a semester of introductory work. Students will receive academic course work combined with practical hands-on experience under the supervision of nationally certified and state licensed athletic trainers. The Athletic Training Program meets all requirements for students who successfully complete the program to sit for the Texas Department of Registration and Licensing Exam for Athletic Training Licensure in their final semester. Students will complete two introductory courses, following which they will apply to the professional phase of the program in the spring semester. Students must be accepted and admitted to the program to enroll in athletic training content and clinical courses.

For program admission and progression criteria, see the Athletic Training Program Handbook or contact the Athletic Training Program Director.

## Program Costs

Students accepted into the professional phase of the program must be aware that in addition to the appropriate university tuition and fees for courses, there are additional expenses to participate in the program. Professional phase students pay a program fee that includes student membership into the Texas State Athletic Trainers' Association, obtaining and maintaining American Red Cross Professional Rescuer CPR/AED Certification, and the purchase of a student skills kit. Students are responsible for any expenses incurred with travel to off-campus Affiliate Clinical Sites in completion of their clinical rotations assigned by the Clinical Practicum Courses. An additional expense for students is fees triggered by the application to the program, including a background check, drug test, TB test and proof of vaccine records.

## Expense Summary

Program Fee: \$380 (due upon admission to the program)

Includes: Athletic Training Student Kit, TSATA Membership (renewed annually), Professional Rescuer CPR/AED certification (initial and maintenance), Equipment fees.

Course fees:

ATTR3375 Clinical Anatomy	\$75
ATTR2390 Athlete Wellness and Injury Prevention	\$50
ATTR3374 General Medical Conditions	\$50
ATTR4370 Therapeutic Modalities	\$25
ATTR2360 Emergency Management and Procedures	\$75

**Total Program Fees and Course Fees: \$655**

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BS degree.

2. Complete at least **120** sch for the BS degree. At least 30 sch must be completed at U.T.P.B. and at least 24 of the last 30 must be taken at U.T.P.B.
3. At least **48** sch must be taken at the upper level.
4. Earn at least a B grade in ALL Athletic Training and Science courses.
5. Maintain at least a GPA of 2.75.
6. Students who enrolled in a Texas public institution of higher education as first-time freshman in the Fall 2007 and thereafter are **not permitted to drop more than six courses** during their entire undergraduate career (Texas Administrative Code 4.10). This limit includes all transfer work taken at a Texas institution of higher education.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch

### Life and Physical Science (6 sch)

- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Other Component Area Option (2-3 sch)

- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- COMM 1115 Communication Lab 1 sch (Only required if not met in the concentration)

### AT Core Component (48 sch)

- BIOL 3151 Human Anatomy Laboratory 1 sch
- BIOL 3153 Human Physiology Laboratory 1 sch
- BIOL 3350 Human Anatomy 3 sch
- BIOL 3352 Human Physiology 3 sch
- ATTR 1370 Introduction to Athletic Training 3 sch
- ATTR 2295 Athletic Training Practicum I 2 sch
- ATTR 2296 Athletic Training Practicum II 2 sch
- ATTR 2360 Emergency Procedures and Management 3 sch
- ATTR 3275 Orthopedic Physiology 2 sch
- ATTR 3295 Athletic Training Practicum III 2 sch
- ATTR 3296 Athletic Training Practicum IV 2 sch
- ATTR 4295 Athletic Training Practicum V 2 sch

- ATTR 4296 Athletic Training Practicum VI 2 sch
- ATTR 4350 Exercise Physiology (3)
- ATTR 4371 Athletic Training Administration 3 sch
- ATTR 4370 Therapeutic Modalities 3 sch
- ATTR 3375 Clinical Anatomy 3 sch
- ATTR 3471 Evaluation of the Lower Extremity 4 sch
- ATTR 3472 Evaluation of the Upper Extremity 4 sch

## Concentration (30 sch)

Each student will select a concentration, depending on their career aspirations and plans. Students may transition between concentration; however, this may result in needing to take additional courses.

## Education Concentration

- ATTR 2390 Athlete Wellness and Injury Prevention 3 sch
- ATTR 3301 Concepts in Motor Development and Movement 3 sch
- ATTR 4075 Seminar in Athletic Training 0 sch
- COMM 1115 Communication Lab 1 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4326 Reading in the Content Areas 3 sch
- EDUC 4333 Theory and Practice of Teaching: Elementary Physical Education 3 sch
- EDUC 4334 Theory and Practice of Teaching: Secondary Physical Education 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch
- EDUC 4686 Student Teaching: EC-Grade 12 6 sch
- PSYC 3341 Child/Adolescent Psychology 3 sch

## Orthopedics Concentration

- ATTR 2390 Athlete Wellness and Injury Prevention 3 sch
- ATTR 3290 Orthopedic Conditions 2 sch
- ATTR 3350 Evidence Based Practice 3 sch
- ATTR 4075 Seminar in Athletic Training 0 sch
- ATTR 4225 Diagnostic Imaging 2 sch
- ATTR 4235 Surgical Considerations 2 sch
- ATTR 4270 Healthcare Informatics 2 sch
- ATTR 4355 Psychology of Injury 3 sch
- ATTR 4425 Splinting, Casting, Orthotic 4 sch
- ATTR 4472 Rehabilitation of Athletic Injuries 4 sch
- HSHP 3301 Medical Terminology (3)
- MATH 1342 Elementary Statistics 3 sch

## Traditional AT Concentration

- ATTR 2390 Athlete Wellness and Injury Prevention 3 sch

- ATTR 3290 Orthopedic Conditions 2 sch
- ATTR 3300 Applied Movement Assessment 3 sch
- ATTR 3350 Evidence Based Practice 3 sch
- ATTR 3374 General Medical Conditions in the Athlete 3 sch
- ATTR 4075 Seminar in Athletic Training 0 sch
- ATTR 4355 Psychology of Injury 3 sch
- ATTR 4470 Movement Analysis and Research 4 sch
- ATTR 4472 Rehabilitation of Athletic Injuries 4 sch
- HSHP Medical Terminology (3)
- MATH 1342 Elementary Statistics 3 sch

## Pre PT/AT Concentration

- ATTR 2390 Athlete Wellness and Injury Prevention 3 sch
- ATTR 3290 Orthopedic Conditions 2 sch
- ATTR 3350 Evidence Based Practice 3 sch
- ATTR 4075 Seminar in Athletic Training 0 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- PHYS 1101 College Physics I Laboratory 1 sch
- PHYS 1102 College Physics II Laboratory 1 sch
- PHYS 1301 College Physics I 3 sch
- PHYS 1302 College Physics II 3 sch

# Biology, BS

Students not in either the Pre-professional or Teacher Certification Plan may opt to complete a more flexible degree plan in General Studies. This plan is suitable for students interested in positions in business, industry, or government where a B.S. in Biology may be required or recommended. The General Studies plan must include 36 hours in Biology with a minimum of 24 upper-level credits.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life Science Requirement (6 sch)

- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch

- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 sch)

- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch

### Major Requirements ( $\geq 36$ sch total, $\geq 24$ sch upper level)

#### Lower Level

- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1107 General Biology II Laboratory 1 sch

#### Upper Level

- BIOL 3300 Microbiology 3 sch
- BIOL 3101 Microbiology Laboratory 1 sch or
- BIOL 3324 Cell Biology 3 sch
- BIOL 3125 Cell Biology Laboratory 1 sch

- BIOL 3350 Human Anatomy 3 sch
- BIOL 3151 Human Anatomy Laboratory 1 sch
  
- BIOL 3352 Human Physiology 3 sch
- BIOL 3153 Human Physiology Laboratory 1 sch or
- BIOL 4352 Animal Physiology 3 sch
- BIOL 4153 Animal Physiology Lab 1 sch
  
- BIOL 3310 Invertebrate Zoology 3 sch
- BIOL 3111 Invertebrate Zoology Laboratory 1 sch or
- BIOL 3312 Vertebrate Zoology 3 sch
- BIOL 3113 Vertebrate Zoology Laboratory 1 sch or
- BIOL 3230 Botany 2 sch
- BIOL 3231 Botany Laboratory 2 sch
  
- BIOL 4340 Genetics 3 sch
- BIOL 4342 Evolution 3 sch
- BIOL electives ( $\geq 2$ ) sch

## Support Requirements

### Lower Level

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch
  
- PHYS 2325 University Physics I 3 sch
- PHYS 2125 University Physics I Laboratory 1 sch or
- PHYS 1301 College Physics I 3 sch
- PHYS 1101 College Physics I Laboratory 1 sch
  
- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch or
- PHYS 1302 College Physics II 3 sch
- PHYS 1102 College Physics II Laboratory 1 sch

### Upper Level

- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3312 Organic Chemistry II 3 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch



## Science and Mathematics Departmental Requirements

### Lower Level

- COSC 1335 Computers and Problem Solving 3 sch

### Upper Level

- Literature (upper level) ENGL 33xx (3) sch
- NTSC 4311 History and Philosophy of Science 3 sch (Capstone)

### Minor ( $\geq 18$ sch total, $\geq 12$ sch upper level)

(refer to Discipline specifications)

### Accelerated Master's Pathway (AMP)

This program has an Accelerated Master's Pathway (AMP) option. AMP allows for highly qualified students in the UTPB undergraduate program noted above to be eligible for admissions to a master's level program. Students who successfully complete the AMP will be granted automatic admissions into the corresponding UTPB graduate program. For more information about the AMP program please contact the office of Graduate Studies or the AMP Coordinator for this major.

# Biology, BS - Molecular Biology Track

In addition to the existing Preprofessional, General Studies, and the several Teaching Certification degree programs for the B.S. degree with a major in Biology that require a separate minor, students majoring in Biology have the option of choosing one of two optional tracks that are an expanded major but do not require a minor.

The major in Biology with the track in Molecular Biology is well suited for students who wish to enter any of the health professional fields such as medicine, dentistry, veterinary, and pharmacy; pursue academic studies at the graduate level in related molecular biological fields; or gain employment in biotechnology areas after obtaining their baccalaureate degree. The track in Molecular Biology may be especially attractive to pre-medical students considering the increased emphasis in cellular and molecular biology on the new MCAT. The track in Molecular Biology consists of a minimum of 46 hours with at least 38 hours taken at the upper level. A minor is not required.

Total hours for B.S. degree with Major in Biology, Molecular Biology track is 120 hours total with 48 hours taken at the upper level.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life Science Requirement (6 sch)

- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 sch)

- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch

## Major Requirements ( $\geq 33$ sch total, $\geq 25$ sch upper level Core Biology courses)

### Lower Level

- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1107 General Biology II Laboratory 1 sch

## Upper Level

- BIOL 3300 Microbiology 3 sch
- BIOL 3101 Microbiology Laboratory 1 sch or
- BIOL 3324 Cell Biology 3 sch
- BIOL 3125 Cell Biology Laboratory 1 sch
  
- BIOL 3310 Invertebrate Zoology 3 sch
- BIOL 3111 Invertebrate Zoology Laboratory 1 sch or
- BIOL 3312 Vertebrate Zoology 3 sch
- BIOL 3113 Vertebrate Zoology Laboratory 1 sch
  
- BIOL 4320 Cell Biochemistry 3 sch
- BIOL 4340 Genetics 3 sch
- BIOL 4141 Genetics Laboratory 1 sch
- BIOL 4342 Evolution 3 sch
- BIOL 4352 Animal Physiology 3 sch
- BIOL 4153 Animal Physiology Lab 1 sch
- Biology elective (upper level) BIOL 3xxx or 4xxx ( $\geq 3$ ) sch

## Track Requirements (13-14 sch)

### Upper Level

- Microbiology or Cell Biology (whichever not taken above)
- BIOL 4322 Molecular Biology 3 sch

### Choose any two:

- BIOL 4303 Principles of Nutrition 3 sch
- BIOL 4323 Immunology 3 sch
  
- BIOL 4362 Histology 3 sch and

## Support Requirements (28 sch total, 8 sch upper level)

### Lower Level

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2125 University Physics I Laboratory 1 sch

- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### Upper Level

- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3312 Organic Chemistry II 3 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch

### Science & Mathematics Departmental Requirements (12 sch total, 9 sch upper level)

#### Lower Level

- COSC 1335 Computers and Problem Solving 3 sch

#### Upper Level

- Literature (upper level) ENGL 33xx (3) sch
- NTSC 4311 History and Philosophy of Science 3 sch
- Upper level elective or MATH Statistics (3) sch

### Transfer, Elective or Other Hours Not Listed Above

Minimum 4 sch to complete bachelor's degree

# Biology, BS - Organismal Biology Track

In addition to the existing Preprofessional, General Studies, and the several Teaching Certification degree programs for the B.S. degree with a major in Biology that require a separate minor, students majoring in Biology have the option of choosing one of two optional tracks that are an expanded major but do not require a minor.

The major in Biology with the track in Organismal Biology is well suited for students who wish a broad grounding across the classical biological sciences with special interests in natural history, evolution, systematics, behavioral biology, field biology, and other environmentally related sciences. Such a background allows students to be broadly prepared for graduate work in many biological and environmental areas. The track in Organismal Biology consists of a minimum of 46 hours with at least 38 hours taken at the upper level. A minor is not required.

Total hours for B.S. degree with Major in Biology, Molecular Biology track is 120 hours total with 48 hours taken at the upper level.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life Science Requirement (6 sch)

- BIOL 1306 General Biology I 3 sch

- BIOL 1307 General Biology II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 sch)

- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch

### Major Requirements ( $\geq 33$ sch total, $\geq 25$ sch Upper Level)

#### Lower Level

- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1107 General Biology II Laboratory 1 sch

#### Upper Level

- BIOL 3300 Microbiology 3 sch
- BIOL 3101 Microbiology Laboratory 1 sch or
- BIOL 3324 Cell Biology 3 sch
- BIOL 3125 Cell Biology Laboratory 1 sch
  
- BIOL 3310 Invertebrate Zoology 3 sch
- BIOL 3111 Invertebrate Zoology Laboratory 1 sch or
- BIOL 3312 Vertebrate Zoology 3 sch
- BIOL 3113 Vertebrate Zoology Laboratory 1 sch
  
- BIOL 4320 Cell Biochemistry 3 sch
- BIOL 4340 Genetics 3 sch
- BIOL 4141 Genetics Laboratory 1 sch
- BIOL 4342 Evolution 3 sch
- BIOL 4352 Animal Physiology 3 sch
- BIOL 4153 Animal Physiology Lab 1 sch
- Biology elective (upper level) BIOL 3xxx or 4xxx ( $\geq 3$ ) sch

## Track Requirements (14 sch)

### Upper Level

- Invertebrate Zoology or Vertebrate Zoology (whichever not taken above)
- BIOL 3230 Botany 2 sch
- BIOL 3231 Botany Laboratory 2 sch

### Choose any two:

- BIOL 4354 Animal Behavior 3 sch
- Or other upper-level Biology elective (BIOL 3xxx or BIOL 4xxx)

## Support Requirements (28 sch)

### Lower Level

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch



## Upper Level

- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3312 Organic Chemistry II 3 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch

## Science and Mathematics Departmental Requirements (12 sch)

### Lower Level

- COSC 1335 Computers and Problem Solving 3 sch

### Upper Level

- Literature (upper level) ENGL 33xx (3) sch
- NTSC 4311 History and Philosophy of Science 3 sch (Capstone)
- Upper level elective or MATH Statistics (3) sch

## Transfer, Elective or Other Hours Not Listed Above:

Minimum 4 sch to complete bachelor's degree.

# Biology, BS - Pre-Professional Plan

The Pre-professional Plan is for students planning to enter graduate school or a professional school, including medicine, dentistry, veterinary medicine, medical technology and other health professions. This professional degree plan includes a minimum of 36 semester credit hours in the major with at least 28 credits of upper level 3000 and 4000 number courses.

The total semester credit hours required for a B.S. in Biology on this pre-professional track is **120**.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life Science Requirement (6 sch)

- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 sch)

- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch

### Support Requirements

Physics I and II, calculus-based physics, PHYS 2325/PHYS 2125 and PHYS 2326/PHYS 2126 are required by some health professional programs and strongly recommended for all majors on the Pre-professional Plan, or PHYS 1301/PHYS 1101 and PHYS 1302/PHYS 1102.

### Lower Level

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch

- PHYS 1301 College Physics I 3 sch
- PHYS 1101 College Physics I Laboratory 1 sch or
- PHYS 2325 University Physics I 3 sch
- PHYS 2125 University Physics I Laboratory 1 sch
  
- PHYS 1302 College Physics II 3 sch
- PHYS 1102 College Physics II Laboratory 1 sch or
- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Upper Level

- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3312 Organic Chemistry II 3 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch

## Major Requirements (> 36 hrs. total, > 28 hrs. upper level)

Students majoring in Biology on the Pre-professional Plan must take a minimum of 36 semester credit hours in the major with a minimum of 28 hours of upper level courses.

## Lower Level

- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1107 General Biology II Laboratory 1 sch

## Upper Level

Total required upper level hours: **22**

- BIOL 3300 Microbiology 3 sch
- BIOL 3101 Microbiology Laboratory 1 sch or
- BIOL 3324 Cell Biology 3 sch
- BIOL 3125 Cell Biology Laboratory 1 sch
  
- BIOL 3310 Invertebrate Zoology 3 sch
- BIOL 3111 Invertebrate Zoology Laboratory 1 sch or
- BIOL 3312 Vertebrate Zoology 3 sch
- BIOL 3113 Vertebrate Zoology Laboratory 1 sch
  
- BIOL 4320 Cell Biochemistry 3 sch
- BIOL 4340 Genetics 3 sch
- BIOL 4141 Genetics Laboratory 1 sch
- BIOL 4342 Evolution 3 sch

- BIOL 4352 Animal Physiology 3 sch
- BIOL 4153 Animal Physiology Lab 1 sch
- BIOL electives (6 sch)

## Electives

Majors on the Pre-professional degree plan may take any upper level Biology courses beyond the required courses to achieve the minimum 28 upper level credits.

## Science and Mathematics Departmental Requirements

### Lower Level

All pre-professional majors must demonstrate a basic use of computing through the completion of COSC 1335.

- COSC 1335 Computers and Problem Solving 3 sch

### Upper Level

- Literature (Upper Level) ENGL 33xx (3) sch
- NTSC 4311 History and Philosophy of Science 3 sch (Capstone)
- MATH 3301 Introduction to Probability I 3 sch (Recommended)

### Minor (>18 sch total, >12 sch upper level)

(refer to Discipline specifications)

# Chemical Engineering

The Chemical Engineering program prepares engineers with necessary skills and knowledge to enter diverse job markets locally and globally. The energy sector in West Texas is thriving and chemical engineering graduates of the program are expected to find ample job opportunities in the local energy industry. Chemical engineers use all tools of other engineering disciplines plus applied chemistry. This makes the chemical engineering field one of the most diverse, if not the most diverse, engineering discipline of all. Chemical engineers use chemicals, materials, and energy to design systems, processes, and products that benefit humankind. The job market for chemical engineers is as broad as the field is. Chemical engineers upon graduation are among the most sought by employers in diverse industries including energy (oil/gas/alternatives), food and drink, pharmaceuticals, environment and water, materials and manufacturing, etc. Interesting to note that more chemical engineers are working in the energy industry (upstream & downstream) than any other engineering discipline, the same industry that started the field of chemical engineering. The Bureau of Labor Statistics is predicting 8% growth nationwide during the 2016-2026 decade with the estimated annual mean salary of \$105,000. The annual mean salary for chemical engineers in Texas is estimated above \$125,000 because of oil and gas industry.

## Program Educational Objectives

The Chemical Engineering program offers an educational experience that enables graduates to:

1. Obtain professional-level employment in the Chemical Engineering field.
2. Practice Chemical Engineering in a wide variety of private and government institutions.
3. Work in diverse, multi-disciplinary teams and possess leadership skills, ethical standards, environmental concerns and social awareness.
4. Engage in lifelong-learning, participate in professional organizations and, if desired, pursue graduate studies.
5. Obtain licensure as a professional engineer.

## Degree Requirements

Consistent with the existing Bachelor of Science (B.S.) degree programs in engineering, a minimum of 126 semester credit hours is required for the B.S. degree in Chemical Engineering. This degree requires a minimum of 65 upper-division hours. Since all students seeking a B.S. degree in Chemical Engineering are required to take a cross-section of courses from a variety of engineering disciplines, the College does not award double majors. Students desiring a double major should seek a second baccalaureate degree. Minors are not required of students seeking a B.S. degree in Chemical Engineering.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch

- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- CHEM 1311 General Chemistry I 3 sch
- PHYS 2325 University Physics I 3 sch

### U.S. History (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Political Science (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Other Options (2 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch

### Lower Division Required Courses (19 sch)

- CENG 2333 Elementary Chemical Engineering 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- CHEM 1312 General Chemistry II 3 sch
- MATH 2414 Calculus II 4 sch
- MATH 2415 Calculus III 4 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- PHYS 2326 University Physics II 3 sch

### Upper Division Requirements (59 sch)

- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch
- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3312 Organic Chemistry II 3 sch
- MATH 3301 Introduction to Probability I 3 sch
- MATH 3320 Differential Equations 3 sch
- ENGR 3303 Introduction to Materials Science 3 sch
  
- ENGR 3326 Engineering Economics 3 sch
- Or
- PENG 3326 Petroleum Resources Economics and Valuation 3 sch
  
- ENGR 3375 Introduction to Thermodynamics 3 sch
- ENGR 4195 Professional Practice 1 sch
- CENG 3211 Chemical Engineering Lab I 2 sch
- CENG 3304 Chemical Engineering Fluid Operations 3 sch
- CENG 3313 Heat Transfer Operations 3 sch
- CENG 3320 Chemical Engineering Analysis 3 sch
- CENG 3354 Chemical Engineering Thermodynamics 3 sch
- CENG 4211 Chemical Engineering Lab II 2 sch
- CENG 4324 Chemical Engineering Mass Transfer 3 sch
- CENG 4355 Process Safety Engineering 3 sch
- CENG 4361 Process Dynamics and Control 3 sch
- CENG 4369 Gas and Petroleum Processing 3 sch
- CENG 4372 Chemical Engineering Kinetics 3 sch
- CENG 4410 Senior Design 4 sch



## Upper Division Electives (6 sch)

Choose two:

- CENG 4326 Chemical Engineering Plant Design 3 sch
- CENG 4375 Stage-wise Separations 3 sch
- NENG 4311 Radioactive Materials Processing and Waste Management 3 sch

# Chemistry, BS

Chemistry is a central science that provides a basic understanding needed to deal with many of society's needs. It is a critical field for man's attempt to feed and clothe the world population, to tap new sources of energy, to improve health, and to protect our environment. All life processes are manifestations of chemical change. Understanding chemical reactivity is necessary for our understanding of life and the world around us. Modern chemical instrumental techniques furnish a crucial dimension. They account for the recent acceleration of progress that now promises especially high return from the investment of additional resources in the field of chemistry. The chemical industry of the U.S. employs over a million people. There is no basic science that offers greater security for investment in the future than chemistry.

The Chemistry program leading to the Bachelor of Science degree at U. T. Permian Basin follows the guidelines of the American Chemical Society for a Bachelor of Science in Chemistry. This degree is appropriate for a student who wishes to pursue a professional career in any field of chemistry. The B.S. in Chemistry (Biochemistry Track) is designed for students pursuing a career in a health profession and who desire a strong background in this central science as preparation for medical, dental, veterinary and pharmacy schools, as well as teaching. The B.S. in Chemistry (Environmental Chemistry Track) is designed for students pursuing a career related to the environment. Pre-Pharmacy and Chemical Education tracks are also available.

## Degree Requirements

The total semester credit hours required for a B. S. in Chemistry is **120**.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

## Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

## Physical Science Requirement (6 sch)

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch
- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch

## Common Science Requirements (16 sch)

### Lower Level

- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch
  
- PHYS 1301 College Physics I 3 sch
- PHYS 1101 College Physics I Laboratory 1 sch or
- PHYS 2325 University Physics I 3 sch
- PHYS 2125 University Physics I Laboratory 1 sch
  
- PHYS 1302 College Physics II 3 sch
- PHYS 1102 College Physics II Laboratory 1 sch or
- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Required Chemistry Courses (42 sch total, $\geq$ 26 sch upper level)

### Lower Level

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch

### Upper Level

- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3312 Organic Chemistry II 3 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch
- CHEM 3125 Analytical Chemistry Lab 1 sch
- CHEM 3324 Analytical Chemistry I 3 sch
- CHEM 4301 Physical Chemistry I 3 sch
- CHEM 4103 Physical Chemistry Lab I 1 sch
- CHEM 3695 Intro to Research 1-6 sch
  
- CHEM 4321 Biochemistry I 3 sch
- CHEM 4223 Biochemistry Techniques 2 sch or
- BIOL 4320 Cell Biochemistry 3 sch
- BIOL 3125 Cell Biology Laboratory 1 sch
  
- CHEM 4374 Inorganic Chemistry 3 sch
- CHEM 4175 Inorganic Chemistry Lab 1 sch

### Advanced Chemistry Electives (select $\geq$ 7 sch)

- CHEM 4330 NMR Spectroscopy 3 sch
- CHEM 4313 Instrumental Chemical Analysis 3 sch
- CHEM 4389 Selected Topics 3 sch

- CHEM 4340 Medicinal Chemistry 3 sch
- CHEM 4302 Physical Chemistry II 3 sch and
- CHEM 4104 Physical Chemistry Lab II 1 sch

## Minor (20 total, 12 upper level)

In general, a minor consists of 18-24 sch of which 9-12 sch must be upper level. Please refer to the catalog for specific requirements for each individual minor.

## Accelerated Master's Pathway (AMP)

This program has an Accelerated Master's Pathway (AMP) option. AMP allows for highly qualified students in the UTPB undergraduate program noted above to be eligible for admissions to a master's level program. Students who successfully complete the AMP will be granted automatic admissions into the corresponding UTPB graduate program. For more information about the AMP program please contact the office of Graduate Studies or the AMP Coordinator for this major.

# Chemistry, BS - Biochemistry Track

The Biochemistry Track is a program designed for students interested in the application of chemical concepts to biological systems. This degree program will prepare students seeking to continue their education in a health field (medical, dental, pharmacy, etc.) or in a graduate program in which the research may focus on biochemical, medicinal, or forensic chemistry, or toxicology areas (to name a few).

In addition to the General Education courses, 64 sch are required in Chemistry and BIOL courses. This degree plan does not require a separate minor. Depending upon each student's level of readiness for college courses, pre-calculus can be counted within the total sch for the degree while another UL elective allows pre-med students to take another BIOL course to further their preparation for professional/graduate schools.

The B.S. degree in Chemistry with a Biochemistry Track ( $\geq 26$  CHEM upper level sch) requires a pre-selected list (12 upper level sch) of Biology courses and therefore does not require a minor.

## Degree Requirements

The total semester credit hours required for a B. S. in Chemistry is **120**.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

## Physical Science Requirement (6 sch)

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch
- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch

## Common Science Requirements (19 sch)

### Lower Level

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- PHYS 1301 College Physics I 3 sch
- PHYS 1101 College Physics I Laboratory 1 sch or

- PHYS 2325 University Physics I 3 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 1302 College Physics II 3 sch
- PHYS 1102 College Physics II Laboratory 1 sch or
- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Upper Level

- MATH 3301 Introduction to Probability I 3 sch

## Required Chemistry Courses (42 sch total, $\geq$ 26 sch upper level))

### Lower Level

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch

### Upper Level

- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3312 Organic Chemistry II 3 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch
- CHEM 3125 Analytical Chemistry Lab 1 sch
- CHEM 3324 Analytical Chemistry I 3 sch
- CHEM 4301 Physical Chemistry I 3 sch
- CHEM 4103 Physical Chemistry Lab I 1 sch
- CHEM 3695 Intro to Research 1-6 sch
- CHEM 4321 Biochemistry I 3 sch
- CHEM 4223 Biochemistry Techniques 2 sch or
- BIOL 4320 Cell Biochemistry 3 sch
- BIOL 3125 Cell Biology Laboratory 1 sch
- CHEM 4374 Inorganic Chemistry 3 sch
- CHEM 4175 Inorganic Chemistry Lab 1 sch

### Advanced Chemistry Electives (select $\geq$ 7 sch)

- CHEM 4340 Medicinal Chemistry 3 sch
- CHEM 4330 NMR Spectroscopy 3 sch and



- CHEM 4302 Physical Chemistry II 3 sch and
- CHEM 4104 Physical Chemistry Lab II 1 sch
- CHEM 4311 Nuclear Chemistry

## Required Biology Courses (22 total sch, ≥ 14 upper level)

### Lower Level

- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1107 General Biology II Laboratory 1 sch

### Upper Level

- BIOL 3300 Microbiology 3 sch
- BIOL 3101 Microbiology Laboratory 1 sch
- BIOL 4340 Genetics 3 sch
- BIOL 4141 Genetics Laboratory 1 sch

### BIOL (select 2 of 3)

- BIOL 3324 Cell Biology 3 sch
- BIOL 4303 Principles of Nutrition 3 sch
- BIOL 4322 Molecular Biology 3 sch

## Transfer or Other Hours Not Listed Above

Minimum 4 lower level sch, minimum 3 upper level sch.

# Chemistry, BS - Environmental Chemistry Track

The Environmental Chemistry Track is a program designed for students interested in the application of chemical concepts to the environment. This degree program will prepare students for industrial positions for graduate programs in either field.

Since lower level courses in GEOL (Physical & Historical GEOL & labs, 8 sch) and BIOL (Gen. Biology I & lab, 4 sch) are additional pre-requisites for the ENSC courses, fewer total courses in Chemistry are required in this track. In addition to the General Education courses, there are 31 sch of common science, 35 sch total CHEM (with 27 UL) and 21 total ENSC, all UL, requirements. This degree plan does not require a separate minor. Depending upon each student's level of readiness for college courses, pre-calculus can be counted within the total sch for the degree, but calculus II is highly recommended.

The total semester credit hours required for a B. S. in Chemistry is **120**.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Physical Science Requirement (6 sch)

- CHEM 1311 General Chemistry I 3 sch

- CHEM 1312 General Chemistry II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch
- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch

### Common Science Requirements (28 sch)

#### Lower Level

- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch
- PHYS 1301 College Physics I 3 sch
- PHYS 1101 College Physics I Laboratory 1 sch or
- PHYS 2325 University Physics I 3 sch
- PHYS 2125 University Physics I Laboratory 1 sch

- PHYS 1302 College Physics II 3 sch
- PHYS 1102 College Physics II Laboratory 1 sch or
- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch
  
- GEOL 1301 Physical Geology 3 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1302 Historical Geology 3 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch

## Required Chemistry Courses (35 sch total, 19 sch upper level))

### Lower Level

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch

### Upper Level

- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3312 Organic Chemistry II 3 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch
- CHEM 3125 Analytical Chemistry Lab 1 sch
- CHEM 3324 Analytical Chemistry I 3 sch
- CHEM 4301 Physical Chemistry I 3 sch
- CHEM 4103 Physical Chemistry Lab I 1 sch
- CHEM 3695 Intro to Research 1-6 sch
- CHEM 4374 Inorganic Chemistry 3 sch
- CHEM 4175 Inorganic Chemistry Lab 1 sch

### Advanced Chemistry Electives ( $\geq 4$ sch)

- CHEM 4313 Instrumental Chemical Analysis 3 sch
- CHEM 3695 Intro to Research 1-6 sch

## Required Environmental Science Courses (21 total sch, 21 upper level sch)

### Upper Level

- ENSC 3301 Environmental Science I 3 sch
- ENSC 3302 Environmental Science II 3 sch

ENSC (select 2 of 3)

## Transfer or Other Hours Not Listed Above

Minimum of 6 lower level sch.

# Chemistry, BS - Pre-Pharmacy Track

The pre-pharmacy track is shown in the 2 yr and 3 yr time frames where certain requirements must be achieved to gain early acceptance into the Pharmacy programs at other institutions. If pre-pharmacy track students gain early acceptance into a pharmacy program they can transfer up to 30 sch back to UTPB to obtain their B.S. degree in Chemistry from UTPB.

The total semester credit hours required for a B. S. in Chemistry is **120**.

## First Two Full Years:

### General Education Requirements (30 sch)

#### Lower Level

#### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

#### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

#### Language, Philosophy and Culture (3 sch)

- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch

#### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch

#### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- MUSI 1306 Music Appreciation 3 sch

#### Social and Behavioral Science (3 sch)

- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

- ECON 2301 Principles of Macroeconomics 3 sch

#### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Common Science Requirements (19 sch)

#### Lower Level

- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch
  
- PHYS 1301 College Physics I 3 sch
- PHYS 1101 College Physics I Laboratory 1 sch or
- PHYS 2325 University Physics I 3 sch
- PHYS 2125 University Physics I Laboratory 1 sch

#### Upper Level

- PSYC 3301 Introductory Statistics 3 sch

### Required Chemistry Courses (41 sch total, $\geq 25$ sch upper level))

#### Lower Level

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch

#### Upper Level

- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3312 Organic Chemistry II 3 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch

### Required Biology Courses (23 sch)

#### Lower Level

- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1307 General Biology II 3 sch

- BIOL 1107 General Biology II Laboratory 1 sch

### Upper Level

- BIOL 3300 Microbiology 3 sch
- BIOL 3101 Microbiology Laboratory 1 sch

### Third Year:

#### Common Science Requirements (Cont'd)

##### Lower Level

- PHYS 1302 College Physics II 3 sch
- PHYS 1102 College Physics II Laboratory 1 sch or
- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch

#### Required Chemistry Courses (Cont'd)

##### Upper Level

- CHEM 3324 Analytical Chemistry I 3 sch
- CHEM 4340 Medicinal Chemistry 3 sch
- CHEM 4321 Biochemistry I 3 sch
- CHEM 4223 Biochemistry Techniques 2 sch or
- BIOL 4320 Cell Biochemistry 3 sch
- BIOL 3125 Cell Biology Laboratory 1 sch

#### Required Biology Courses (Cont'd)

##### Upper Level

- BIOL 3197 Pre-professional Seminar 1 sch
- BIOL 4340 Genetics 3 sch and
- BIOL 4141 Genetics Laboratory 1 sch (or other BIOL below)

### Fourth Year:

#### Required Chemistry Courses (Cont'd)

##### Upper Level



- CHEM 4301 Physical Chemistry I 3 sch
- CHEM 4103 Physical Chemistry Lab I 1 sch
- CHEM 4374 Inorganic Chemistry 3 sch
- CHEM 4175 Inorganic Chemistry Lab 1 sch
- CHEM 3695 Intro to Research 1-6 sch

#### Advanced Chemistry Electives ( $\geq 3$ sch)

- CHEM 4302 Physical Chemistry II 3 sch
- CHEM 4104 Physical Chemistry Lab II 1 sch
- CHEM 4330 NMR Spectroscopy 3 sch

#### Required Biology Courses (Cont'd)

##### Upper Level

##### BIOL (select 2 of 3)

- BIOL 3324 Cell Biology 3 sch
- BIOL 4303 Principles of Nutrition 3 sch
- BIOL 4322 Molecular Biology 3 sch

#### Transfer or Other Hours Not Listed Above

Minimum of 4 lower level sch, minimum of 3 upper level sch.

# Child and Family Studies, BA

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch

- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch \*

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Degree Requirements

The minimum total credits required for a BA in Child and Family Studies is **120**.

1. Read the U. T. Permian Basin catalog and be familiar with the University's requirements for the B. A. degree. **It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the B. A.**
2. Complete at least **120** semester credit hours for the B.A.
3. At least **48** credits must be at the junior or senior level. At least **30** of these must be completed at U. T. Permian Basin.
4. Obtain at least a "C" grade in all courses counting toward the major. Maintain at least a grade point average of 2.0 in all courses applicable toward the B. A. degree.

Students wishing to pursue a teaching certification along with the Child & Family Studies major must elect the Learning & Development Track and complete clinical teaching as the capstone course. They will minor in Reading, and the remaining certification courses will be taken as general electives. Students interested in PK-3 or EC-6 certification should consult closely with their major advisor to meet degree and certification requirements.

## Major Requirements

### Core Courses (21-22 sch)

\*\*TECA courses and EDUC 2301 are available only at Texas Community Colleges

- SOCI 1301 Introduction to Sociology 3 sch (cannot be used for Gen Ed) **OR**
- PSYC 1301 Introduction to Psychology 3 sch (cannot be used for Gen Ed)
  
- CHLD 3341 Child/Adolescent Psychology 3 sch **OR**
- TECA 1354 Child Growth & Development \*\*
  
- CHLD 4320 Social Stratification 3 sch
  
- CHLD 4314 Language Development in the Young Child 3 sch
  
- CHLD 3352 The Exceptional Child 3 sch **OR**
- CHLD 4310 Early Intervention 3 sch
  
- CHLD 3301 Introductory Statistics 3 sch
  
- CHLD 4403 Social Research Methods 4 sch **OR**
- CHLD 3304 Educational Research Methods 3 sch

### Track Requirements (12 sch)

Students have a choice of track and can begin working on that track after completion of 9 semester credit hours (sch) of core courses. Note: Students in the learning and development track must successfully complete student teaching or complete CHLD 4399 Senior Research Seminar.

Choose one course from each group:

\*\*TECA courses and EDUC 2301 are available only at Texas Community Colleges

### Developmental Studies

- CHLD 4370 Family Dysfunction and Substance Abuse 3 sch

### Psychological Studies

- CHLD 3311 Social Psychology 3 sch
- CHLD 3321 Abnormal Psychology 3 sch
- TECA 1318\*\*

### Research Studies

- CHLD 4389 Selected Topics 3 sch
- COSC 1335 Computers and Problem Solving 3 sch

### Elective Course (3 sch)

Selected from the following:

Courses in English, Fine Arts, Computer Science, Math, Multicultural or Bilingual Education, Education for Children with Special Needs, History, Communications, or Science.

### Minor

A minor is required for this major. Students may not minor in psychology or sociology. Students may choose any other minor including, but not limited to minors in Special Populations, Women's Studies, Reading, Social Work, or Bilingual/English as a Second Language.

# Child and Family Studies, BA - Learning and Development Track

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch

- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch \*

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch

- PHYS 2126 University Physics II Laboratory 1 sch

## Degree Requirements

The minimum total credits required for a BA in Child and Family Studies is **120**.

1. Read the U. T. Permian Basin catalog and be familiar with the University's requirements for the B. A. degree. **It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the B. A.**
2. Complete at least **120** semester credit hours for the B.A.
3. At least **48** credits must be at the junior or senior level. At least **30** of these must be completed at U. T. Permian Basin.
4. Obtain at least a "C" grade in all courses counting toward the major. Maintain at least a grade point average of 2.0 in all courses applicable toward the B. A. degree.

Students wishing to pursue a teaching certification along with the Child & Family Studies major must elect the Learning & Development Track and complete clinical teaching as the capstone course. They will minor in Reading, and the remaining certification courses will be taken as general electives. Students interested in PK-3 or EC-6 certification should consult closely with their major advisor to meet degree and certification requirements.

## Major Requirements

### Core Courses (21-22 sch)

\*\*TECA courses and EDUC 2301 are available only at Texas Community Colleges

- SOCI 1301 Introduction to Sociology 3 sch (cannot be used for Gen Ed) **OR**
- PSYC 1301 Introduction to Psychology 3 sch (cannot be used for Gen Ed)
- CHLD 3341 Child/Adolescent Psychology 3 sch **OR**
- TECA 1354 Child Growth & Development \*\*
- CHLD 4320 Social Stratification 3 sch
- CHLD 4314 Language Development in the Young Child 3 sch
- CHLD 3352 The Exceptional Child 3 sch **OR**
- CHLD 4310 Early Intervention 3 sch
- CHLD 3301 Introductory Statistics 3 sch
- CHLD 4403 Social Research Methods 4 sch **OR**

### Track Requirements (12 sch)

Students have a choice of track and can begin working on that track after completion of 9 semester credit hours (sch) of core courses. Note: Students in the learning and development track must successfully complete student teaching or complete CHLD 4399.

- CHLD 4311 Social Development and Learning 3 sch



## Choose one course from each group:

\*\*TECA courses and EDUC 2301 are available only at Texas Community Colleges

### Development

- CHLD 3308 Introduction to Early Childhood Education 3 sch
- CHLD 3310 Motor Development 3 sch
- CHLD 3342 Development of Creativity 3 sch
- TECA 1311\*\*
- CHLD 4329 First and Second Language Acquisition 3 sch

### Family Issues

- CHLD 3309 Family and School Interactions 3 sch
- CHLD 4370 Family Dysfunction and Substance Abuse 3 sch
- CHLD 3345 Child Abuse and Neglect 3 sch
- SOCI 4317 Women's Studies 3 sch
- TECA 1309

### Exceptionalities

- CHLD 4310 Early Intervention 3 sch
- CHLD 3321 Abnormal Psychology 3 sch
- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 2301\*\*

### Elective Course (3sch)

Selected from the following:

Courses in English, Fine Arts, Computer Science, Math, Multicultural or Bilingual Education, Education for Children with Special Needs, History, Communications, or Science.

### Capstone Course (3 sch)

- CHLD 4399 Senior Research Seminar 3 sch
- EDUC 4681 Clinical Teaching 6 sch **AND**
- EDUC 4099 Seminar: Student Teaching 0 sch

### Minor

A minor is required for this major. Students may not minor in psychology or sociology. Students may choose any other minor including, but not limited to minors in Special Populations, Women's Studies, Reading, Social Work, or Bilingual/English as a Second Language.

# Child and Family Studies, BA - Social Agencies Track

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch

- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch \*

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Degree Requirements

The minimum total credits required for a BA in Child and Family Studies is **120**.

1. Read the U. T. Permian Basin catalog and be familiar with the University's requirements for the B. A. degree. **It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the B. A.**
2. Complete at least **120** semester credit hours for the B.A.
3. At least **48** credits must be at the junior or senior level. At least **30** of these must be completed at U. T. Permian Basin.
4. Obtain at least a "C" grade in all courses counting toward the major. Maintain at least a grade point average of 2.0 in all courses applicable toward the B. A. degree.

Students wishing to pursue a teaching certification along with the Child & Family Studies major must elect the Learning & Development Track and complete student teaching as the capstone course. They will minor in Reading, and the remaining certification courses will be taken as general electives. Students interested in EC-6 certification should consult closely with their major advisor to meet degree and certification requirements.

## Major Requirements

### Core Courses (21-22 sch)

\*\*TECA courses and EDUC 2301 are available only at Texas Community Colleges

- SOCI 1301 Introduction to Sociology 3 sch (cannot be used for Gen Ed) or
- PSYC 1301 Introduction to Psychology 3 sch (cannot be used for Gen Ed)
  
- CHLD 3341 Child/Adolescent Psychology 3 sch or
- TECA 1354 Child Growth & Development \*\*
  
- CHLD 4320 Social Stratification 3 sch
  
- CHLD 4314 Language Development in the Young Child 3 sch
  
- CHLD 3352 The Exceptional Child 3 sch or
- CHLD 4310 Early Intervention 3 sch
  
- CHLD 3301 Introductory Statistics 3 sch
  
- CHLD 4403 Social Research Methods 4 sch **OR**
- CHLD 3304 Educational Research Methods 3 sch

### Tracks Requirements (12 sch)

Students have a choice of track and can begin working on that track after completion of 9 semester credit hours (sch) of core courses. Note: Students in the learning and development track must successfully complete clinical teaching or complete CHLD 4399.

- CHLD 4399 Senior Research Seminar 3 sch

## Choose one course from each group:

\*\*TECA courses and EDUC 2301 are available only at Texas Community Colleges

### Theoretical Focus

- CHLD 4320 Social Stratification 3 sch
- CHLD 4389 Selected Topics 3 sch

### Social Work Focus

- ACCT 2301 Principles of Financial Accounting 3 sch
- COSC 1335 Computers and Problem Solving 3 sch
- SOWK 2361 Introduction to Social Work 3 sch

### Special Topics Focus

- CHLD 3345 Child Abuse and Neglect 3 sch
- CHLD 4370 Family Dysfunction and Substance Abuse 3 sch
- TECA 1318\*\*

## Elective Course (3sch)

Selected from the following:

Courses in English, Fine Arts, Computer Science, Math, Multicultural or Bilingual Education, Education for Children with Special Needs, History, Communications, or Science.

## Minor

A minor is required for this major. Students may not minor in psychology or sociology. Students may choose any other minor including, but not limited to minors in Special Populations, Women's Studies, Reading, Social Work, or Bilingual/English as a Second Language.

# Child and Family Studies, BA On-line

The Child and Family Studies major can be taken on-line through the FalconOnline services at UTPB. Many but not all of the 42 credits of General Education requirements may be available on-line. The General Education course requirements may be fulfilled through community colleges, or through on-line courses offered at UTPB or other accredited colleges. Several minors are available totally on-line at UTPB that are appropriate for the Child and Family Studies major. CHLD students cannot minor in psychology or sociology, but currently they can complete on-line minors in Communications, Criminal Justice, History and Management. Other on-line minors may be developed during the years covered by this catalog. CHLD majors taking on-line courses will take the Learning and Development track. The degree plan for on-line students is as follows:

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BA degree.
2. A student must complete at least **120sch** for the degree of which at least **48sch** must be taken at the upper level (33xx or 43xx). At least 24 of the last 30 must be taken from U.T.P.B.
3. At least 30 sch must be completed at UTPB.
4. This degree requires a minor.
5. Obtain at least a "C" grade in all courses counting toward the major. Maintain at least a grade point average of 2.0 in all courses applicable toward the BA degree.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

## Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch \*

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Computer Use

All majors must demonstrate a basic use of computing through the completion of CHLD 3301

## Major Requirements (36-37 sch, 18 sch upper level)

Students majoring in Child and Family Studies must take a minimum of 37 credit hours in Child and Family Studies (CHLD) or approved courses. At least 18 credit hours must be at the upper level (3000-4000 level). The maximum number of credit hours in child and family studies courses is 45. The 37 credit hours are divided into three sections of minimum requirements: 22 credit hours of "core" courses, 12 credit hours of "track" courses and 3 credit hours of "approved electives".

## Core Courses (21-22 sch)

The seven on-line "core" courses include:

- SOCI 1301 Introduction to Sociology 3 sch or
- PSYC 1301 Introduction to Psychology 3 sch
  
- CHLD 3341 Child/Adolescent Psychology 3 sch
- CHLD 4320 Social Stratification 3 sch
- CHLD 4314 Language Development in the Young Child 3 sch
- CHLD 3352 The Exceptional Child 3 sch
- CHLD 3301 Introductory Statistics 3 sch
  
- CHLD 4403 Social Research Methods 4 sch **OR**
- CHLD 3304 Educational Research Methods 3 sch

## Learning and Development Track (12 sch)



- CHLD 4311 Social Development and Learning 3 sch

Choose one course from each of the following groups:

### Development

\*\*TECA courses and EDUC 2301 are available only at Texas Community Colleges

- CHLD 3308 Introduction to Early Childhood Education 3 sch
- CHLD 3310 Motor Development 3 sch
- CHLD 4329 First and Second Language Acquisition 3 sch
- TECA 1311 - Education of Young Children \*\*
- TECA 1318 - Wellness of the Young Child \*\*

### Family Issues

\*\*TECA courses and EDUC 2301 are available only at Texas Community Colleges

- CHLD 3309 Family and School Interactions 3 sch
- CHLD 3345 Child Abuse and Neglect 3 sch
- CHLD 4370 Family Dysfunction and Substance Abuse 3 sch
- SOCI 4317 Women's Studies 3 sch
- TECA 1301 - Family, School & Community \*\*

### Exceptionalities

\*\*TECA courses and EDUC 2301 are available only at Texas Community Colleges

- CHLD 4310 Early Intervention 3 sch
- CHLD 3321 Abnormal Psychology 3 sch
- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 2301 \*\*

### Elective Course (3 sch)

Course should be from one of the following: English, Communications, History, Fine Arts, Computer Science, Math, Science, Kinesiology, Bilingual/Multicultural Education and Special Populations.

### Capstone Course

- CHLD 4399 Senior Research Seminar 3 sch

### Minor (18 sch)

A minor is required for this major. Several minors are available totally online at UTPB that are appropriate for the Child and Family Studies major. CHLD students cannot minor in psychology or sociology, but currently they can

complete online minors in Communications, Criminal Justice, History and Management. Other online minors may be developed during the years covered by this catalog.

# Communication, BA

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BA degree.
2. Complete at least 120 sch for the BA degree.
3. At least 30 sch must be completed at U.T.P.B.
4. At least 24 of the last 30 must be taken at U.T.P.B.
5. At least 48 sch must be taken at the upper level.
6. Complete at least 18 sch in a minor of which 9 sch must be upper level. Refer to the catalog for specific requirements.
7. Obtain at least a C grade in ALL MAJOR courses. Maintain a GPA of 2.0 or C in all courses applicable toward the BA degree.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in the Fall 2007 and thereafter are **not permitted to drop more than six courses** during their entire undergraduate career (Texas Administrative Code 4.10). This limit includes all transfer work taken at a Texas institution of higher education.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (United States) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (3 sch)

Students must take COMM 1115 and the appropriate science labs.

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch

- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Computer Use

It is expected that all Communication majors and minors possess basic personal computer skills prior to enrollment in courses. Many classes in the Communication program require that assignments be completed using a personal computer. Regular use of email, browsers, spreadsheets, word processing, and graphic software on multiple platforms is incorporated into the fabric of the curriculum.

## Major Requirements (24 sch)

All communication majors must complete at least 39 sch: a 24 sch required core plus 15 sch of elective communication courses chosen in consultation with their faculty advisor.

- COMM 1301 Introduction to the Study of Communication 3 sch
- COMM 1315 Introduction to Public Speaking 3 sch
- COMM 1318 Interpersonal Communication 3 sch   **Or**
- COMM 2333 Small Group Communication 3 sch
- COMM 3300 Theories of Communication 3 sch
- COMM 3310 Modern Media and Society 3 sch
- COMM 3330 Rhetoric in Western Thought 3 sch
- COMM 3370 Research Methods 3 sch
- COMM 4390 Senior Seminar in Communication 3 sch

## Communication Tracks (15 sch)

The remaining 15 semester credit hours of the major are COMM electives to be taken in one of the following four tracks. All elective hours must be at the upper level.

### Communication Studies Track

Students must take 15 upper level semester credit hours in communication. Those may be any hours in the discipline and should be selected in consultation with your advisor.

### Strategic Messaging Track

Students must take at least 15 upper level elective hours in communication. Of those 15 hours, at least 12 must be selected from the courses below:

- COMM 3311 Advertising Strategies 3 sch
- COMM 3312 Media Writing 3 sch
- COMM 3313 Social Media 3 sch
- COMM 3331 Public Advocacy 3 sch
- COMM 3332 Advanced Public Address 3 sch
- COMM 3333 Political Communication 3 sch
- COMM 3341 Public Relations 3 sch
- COMM 3342 Crisis Communication 3 sch
- COMM 3371 Rhetorical Criticism 3 sch
- COMM 3380 The Politics of National Memory 3 sch
- COMM 4340 Organizational Communication 3 sch
- COMM 4356 Argument and Persuasion 3 sch

## Sports Media Track

Students must take at least 15 upper level elective hours in communication. Of those 15 hours, at least 12 must be selected from the courses below:

- COMM 3312 Media Writing 3 sch
- COMM 3313 Social Media 3 sch
- COMM 3314 Sports Broadcasting 3 sch
- COMM 3315 Sports Communication 3 sch
- COMM 3341 Public Relations 3 sch
- COMM 4383 Current Topics in Sports Communication 3 sch

## Professional Communication

Students must take at least 15 upper level elective hours in communication. Of those 15 hours, at least 12 must be selected from the courses below:

- COMM 3321 Advanced Interpersonal Communication 3 sch
- COMM 3322 Nonverbal Communication 3 sch
- COMM 4326 Group Leadership 3 sch
- COMM 4340 Organizational Communication 3 sch
- COMM 4350 Communication and Instruction 3 sch
- COMM 4351 Health Communication 3 sch
- COMM 4360 Intercultural Communication 3 sch

The following courses may be substituted for upper level elective hours in COMM.

- MRKT 3300 Principles of Marketing 3 sch
- PSYC 3301 Introductory Statistics 3 sch

## Minor (18 sch)

Communication majors are required to earn a minor of at least 18 hours. Most minors require 18 semester credit hours in the minor field, of which 9-12 must be upper level. Communication majors should consult with their faculty advisor to determine which minor courses to take and in what sequence. Courses that count toward major requirements cannot

also be used to fulfill a requirement for the student's minor field, and prerequisites for such courses are not considered part of the minor.

## Additional Electives

Upper level electives required to reach 48 upper level sch limit and 120 sch minimum.

## Internships in Communication

Internships are a traditional component of communication programs and are strongly encouraged at UTPB. Students who are interested in earning course credit for an internship in Communication are encouraged to seek one out independently. Only unpaid internships at an organization that meets U.S. Department of Labor criteria may be used for course credit.

Students employed in the organization for which they arrange an internship may enroll in COMM 4381 *only* if their internship experience is removed from and in addition to their normal work activity. With the permission of a faculty supervisor, those students should register for COMM 4381 before the beginning of the term in which they intend to complete the internship. Before enrolling in the course, the student should submit to the supervising professor an internship proposal and an agreement between the student, the faculty supervisor, and the chosen organization. The students must work at the chosen organization for 100 or more clock hours during the semester in which they are enrolled in the course. Students must submit to the supervising professor regular status reports throughout the semester and a summary report or project at the end of the semester that demonstrates the results of their research and work experience.

## TEXES Requirements

Candidates for tests in Journalism or Speech must have completed the courses listed for each area below or equivalent courses in their teaching fields.

**Journalism:** 1307, 3300, COMM 3312, COMM 3331, 6 elective hours in COMM

**Speech:** 1307, COMM 2333, COMM 3332, 3300, COMM 4350, 6 elective hours in COMM.

# Computer Science, BS

## Degree Requirements

The total credits required for a B.S. in Computer Science are 120. At least 48 sch must be from upper level courses.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2412 Precalculus 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch



- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Other Component Area Option (2 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### Computer Use (8 sch)

All majors must demonstrate a basic use of JAVA.

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch

## Major Requirements

All beginning students are expected to take COSC 1430 and 2430 or the equivalent before starting the major courses. These courses introduce general computer concepts and applications and develop programming skills. To complete the major program language requirements, the student will be expected to demonstrate programming competence in a second general purpose high level language. This competency can be demonstrated through the successful completion of a course in an approved language.

## Common Core (17 sch)

All plans of study in Computer Science include a common core of courses:

- COSC 2420 C Programming 4 sch
- COSC 3310 Digital Computer Organization 3 sch
- COSC 3312 Discrete Mathematics 3 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 3420 Data Structures 4 sch

## Additional Requirements (15 sch)

In addition to the common core, the student majoring in Computer Science is required to complete five advanced Computer Science courses including 3-6 hours of COSC 4395 . These courses will be determined in consultation with the Computer Science faculty.

## Mathematics Requirement (14 sch)

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- MATH 3301 Introduction to Probability I 3 sch
- MATH 3305 Mathematical Reasoning 3 sch

## Capstone Courses (3 sch)

- NTSC 4311 History and Philosophy of Science 3 sch

## Minor

Students at U. T. Permian Basin majoring in Computer Science are required to have a minor. The choice of the minor is up to the student but should be selected to further the student's education objectives.

## Teacher Certification and TExES Requirements

Candidates for TExES tests in computer science must complete the courses listed below, or equivalent courses as approved by a computer science advisor.

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2420 C Programming 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3310 Digital Computer Organization 3 sch
- COSC 3312 Discrete Mathematics 3 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 3420 Data Structures 4 sch

# Computer Science, BS - Cyber Security Track

Total hours for the B.S. degree with a major in Computer Science, Cyber Security Track is 120, with a total of 48 hours taken at the upper level. A minor is also required.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2412 Precalculus 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch

- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Other Component Area Option (2 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### Major Requirements (25 sch)

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2420 C Programming 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3310 Digital Computer Organization 3 sch
- COSC 3312 Discrete Mathematics 3 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 3420 Data Structures 4 sch

### Cyber Security Track (16 sch)

- COSC 4370 Data Communications 3 sch
- COSC 4375 Intro to Computer Security 3 sch
- COSC 4380 Cryptography 3 sch
- COSC 4395 Research 1-3 sch
- COSC 4470 Applied Network Security 4 sch

### Mathematics Requirements (14 sch)

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- MATH 3301 Introduction to Probability I 3 sch
- MATH 3305 Mathematical Reasoning 3 sch

### Capston Course (3 sch)

- NTSC 4311 History and Philosophy of Science 3 sch

### Freshman Seminar and Electives (2 sch)

- UNIV 1101 Freshman Seminar 1 sch
- Additional hours to equal 120 sch and 48 upper level sch.

### Minor (18 sch)

The minor should support the student's specific interests and will be selected in consultation with the faculty advisor.

# Computer Science, BS - Data Science Track

The data science track is designed for students interested in technology, statistics, and quantitative modeling. This track will emphasize the fundamental techniques and tools used to design and analyze large volumes of data. A special focus will be on the development of skills necessary to solve crucial data-driven business problems.

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the degree.
2. Complete a minimum of 120 sch.
3. At least 30 sch must be completed at UTPB.
4. At least 24 of the last 30 must be taken at UTPB.
5. At least 48 sch must be taken at the upper level.
6. Obtain at least a C grade in ALL MAJOR courses. Maintain a GPA of 2.0 or C in all courses applicable toward the degree.
7. Students who enrolled in a Texas public institution of higher education as first-time freshman in the Fall 2007 and thereafter are not permitted to drop more than six courses during their entire undergraduate career (Texas Administrative Code 4.10). This limit includes all transfer work taken at a Texas institution of higher education.

**During the semester in which a student intends to graduate, a degree check & the appropriate forms must be submitted to the Academic Advisor. Check class schedule for dates.**

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

## Mathematics (4 sch)

- MATH 2412 Precalculus 4 sch

## Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch



## Other Component Area Option (2 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Major Requirements (25 sch)

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2420 C Programming 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3310 Digital Computer Organization 3 sch
- COSC 3312 Discrete Mathematics 3 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 3420 Data Structures 4 sch

## Data Science Electives (13 sch)

- COSC 4385 Data Science 3 sch
- COSC 4386 Big Data Analytics 3 sch
- COSC 4395 Research 1-3 sch
- COSC 4415 Database Systems 4 sch

## Mathematics Requirements (20 sch)

- MATH 1342 Elementary Statistics 3 sch
- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- MATH 3301 Introduction to Probability I 3 sch
- MATH 3305 Mathematical Reasoning 3 sch
- MATH 3310 Linear Algebra 3 sch

## Capstone (3 sch)

- NTSC 4311 History and Philosophy of Science 3 sch

## General Electives (17 sch)

Courses that support the student's specific interest in consultation with the student's faculty advisor. UNIV 1101 may be used as an elective.

# Computer Science, BS - Game and Simulation Track

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the degree.
2. Complete a minimum of 120 sch.
3. At least 30 sch must be completed at UTPB.
4. At least 24 of the last 30 must be taken at UTPB.
5. At least 48 sch must be taken at the upper level.
6. Obtain at least a C grade in ALL MAJOR courses. Maintain a GPA of 2.0 or C in all courses applicable toward the degree.
7. Students who enrolled in a Texas public institution of higher education as first-time freshman in the Fall 2007 and thereafter are not permitted to drop more than six courses during their entire undergraduate career (Texas Administrative Code 4.10). This limit includes all transfer work taken at a Texas institution of higher education.

**During the semester in which a student intends to graduate, a degree check & the appropriate forms must be submitted to the Academic Advisor. Check class schedule for dates.**

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2412 Precalculus 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Other Component Area Option (2 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch

- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Major Requirements (25 sch)

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2420 C Programming 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3310 Digital Computer Organization 3 sch
- COSC 3312 Discrete Mathematics 3 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 3420 Data Structures 4 sch

## Game and Simulation Track (22 sch)

- ARTS 2348 Digital and Lens Imagery 3 sch
- ARTS 2358 Graphic Art: Typography 3 sch
- ARTS 3358 Digital Illustration 3 sch
- COSC 4361 Game Design and Production 3 sch
- COSC 4362 Augmented and Virtual Reality 3 sch
- COSC 4395 Research 1-3 sch
- COSC 4490 Introduction to Game Development 4 sch

## Mathematics and Capstone Requirement (17 sch)

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- MATH 3301 Introduction to Probability I 3 sch
- MATH 3305 Mathematical Reasoning 3 sch
- NTSC 4311 History and Philosophy of Science 3 sch

## Electives (14 sch)

General electives. Courses that support the student's specific interests in consultation with the student's faculty advisor.

# Computer Science, BS Software Development Track

Software development is a very broad field and the need for software developers continues to grow. This track will emphasize the knowledge of software, database, multimedia and web, and mobile application development.

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the degree.
2. Complete a minimum of 120 sch.
3. At least 30 sch must be completed at UTPB.
4. At least 24 of the last 30 must be taken at UTPB.
5. At least 48 sch must be taken at the upper level.
6. Obtain at least a C grade in ALL MAJOR courses. Maintain a GPA of 2.0 or C in all courses applicable toward the degree.
7. Students who enrolled in a Texas public institution of higher education as first-time freshman in the Fall 2007 and thereafter are not permitted to drop more than six courses during their entire undergraduate career (Texas Administrative Code 4.10). This limit includes all transfer work taken at a Texas institution of higher education.

**During the semester in which a student intends to graduate, a degree check & the appropriate forms must be submitted to the Academic Advisor. Check class schedule for dates.**

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

## Mathematics (4 sch)

- MATH 2412 Precalculus 4 sch

## Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Other Component Area Option (2 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Major Requirements (25 sch)

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2420 C Programming 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3310 Digital Computer Organization 3 sch
- COSC 3312 Discrete Mathematics 3 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 3420 Data Structures 4 sch

## Software Development Track (19 sch)

- COSC 4415 Database Systems 4 sch
- COSC 4455 Multimedia and Web Development 4 sch
- COSC 4460 Software Engineering 4 sch
- COSC 4485 Mobile Application Development 4 sch
- COSC 4395 Research 1-3 sch ( In software application development)

## Mathematics and Capstone Requirement (17 sch)

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- MATH 3301 Introduction to Probability I 3 sch
- MATH 3305 Mathematical Reasoning 3 sch
  
- NTSC 4311 History and Philosophy of Science 3 sch

## Electives (17 sch)

Courses that support the student's specific interests in consultation with the faculty advisor. UNIV 1101 may be used as an elective.



# Criminology and Criminal Justice Studies

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the degree.
2. Complete a minimum of 120 sch.
3. At least 30 sch must be completed at UTPB.
4. At least 24 of the last 30 must be taken at UTPB.
5. At least 48 sch must be taken at the upper level.
6. Complete a minor. Refer to the catalog for specific requirements.
7. Obtain at least a C grade in ALL MAJOR courses. Maintain a GPA of 2.0 or C in all courses applicable toward the degree.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in the Fall 2007 and thereafter are not permitted to drop more than six courses during their entire undergraduate career (Texas Administrative Code 4.10). This limit includes all transfer work taken at a Texas institution of higher education.

**During the semester in which a student intends to graduate, a degree check & the appropriate forms must be submitted to the Academic Advisor. Check class schedule for dates.**

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### CCJS Required Core Courses (21 sch)

- CCJS 1301 Intro Criminal Justice Studies 3 sch
- CCJS 3302 Research Methods 3 sch
- CCJS 3305 Policing in America 3 sch
- CCJS 4303 Theories of Criminal Behavior 3 sch
- CCJS 4306 Corrections in America 3 sch
- CCJS 4309 Applied Practice in Criminal Justice
- CCJS 4307 Senior Internship 3 sch **OR**
- CCJS 4308 Senior Seminar 3 sch

### CCJS Electives (18 sch)

Students must choose 6 courses with a CCJS prefix that are not used in the required core section.

### Minor (18 sch)

Students may choose any minor.

### Electives (21 sch)

Any additional hours needed to reach the 120 semester credit hours total and 48 upper level hours.

# Education, BA - General Studies (Non-Certification)

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

## Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +

- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch

- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## Major Requirements

### Language Arts and Reading

- ENGL, 2000-level or higher
- ENGL, 2000-level or higher
- ENGL/SPAN/COMM; upper level
- ENGL/SPAN/COMM; upper level
- ENGL/SPAN/COMM; upper level

### Social Sciences/Social Studies

- Geography or non-U.S. History
- U.S. or TX History (2000-level or higher)
- PSYC 3341 Child/Adolescent Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch or
- ENGL 3306 American Multicultural Fiction 3 sch or
- PSYC 3311 Social Psychology 3 sch or

### Mathematics

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

- MATH 1314 College Algebra 3 sch +
- MATH 1324 Applications of Discrete Mathematics 3 sch +
- MATH 1332 Contemporary Mathematics I 3 sch +

- MATH 2412 Precalculus 4 sch +
- MATH 1350 Foundations of Elementary Mathematics I 3 sch +
- MATH 2350 Foundations of Elementary Mathematics II 3 sch +

## Life and Physical Sciences

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

The Science courses must include life and physical sciences.

- Science with lab +
- Science with lab +
- Science; lab optional
- Science; lab optional
- Science; lab optional (upper level)

## Area of Emphasis

15 hours in a specific area or discipline. Include sufficient upper level hours to meet the 48 hours required for graduation.

## Supporting Electives

9 sch

# Electrical Engineering, BS

Consistent with the existing Bachelor of Science (B.S.) degree programs in engineering, a minimum of 126 semester credit hours is required for the B.S. degree in Electrical Engineering. This degree requires a minimum of 55 upper division hours. Since all students seeking a B.S. degree in Electrical Engineering are required to take a cross-section of courses from a variety of engineering disciplines, the College does not award double majors. Students desiring a double major should seek a second baccalaureate degree. Minors are not required of students seeking a B.S. degree in Electrical Engineering.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- CHEM 1311 General Chemistry I 3 sch
- PHYS 2325 University Physics I 3 sch

### U.S. History (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Political Science (6 sch)



- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Other Options (2 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch

## Degree Requirements

### Lower Division Required Courses (26 sch)

- EENG 1303 Object Oriented Programming in Java 3 sch
- EENG 2105 Fundamentals of Circuit Analysis Laboratory 1 sch
- EENG 2110 Digital Circuits Laboratory 1 sch
- EENG 2310 Digital Circuits Design 3 sch
- EENG 2320 Foundations of Electrical Engineering 3 sch
- ENGR 2305 Fundamentals of Circuit Analysis 3 sch
- MATH 2414 Calculus II 4 sch
- MATH 2415 Calculus III 4 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- PHYS 2326 University Physics II 3 sch

## Basic Engineering Core (7 sch)

- MATH 3310 Linear Algebra 3 sch
- MATH 3320 Differential Equations 3 sch
- ENGR 4195 Professional Practice 1 sch

## Major Requirements (38 sch)

- EENG 3303 Electromagnetic Fields 3 sch
- EENG 3304 Electric Circuits II 3 sch
- EENG 3306 Electronic Circuit Analysis I 3 sch
- EENG 3106 Electronic Circuit Analysis Laboratory I 1 sch
- EENG 3307 Microprocessors 3 sch
- EENG 3309 Electronic Circuit Analysis II 3 sch
- EENG 3314 Design Methodology in Electrical Engineering 3 sch
- EENG 3373 Engineering Probability and Statistics 3 sch
- EENG 3380 Signals and Systems 3 sch
- EENG 4110 Electric Power Systems Laboratory 1 sch
- EENG 4310 Electric Power Systems 3 sch
- EENG 4325 Communication Theory 3 sch
- EENG 4330 Electric Machines 3 sch
- EENG 4340 Control Systems 3 sch

## Senior Design (4 sch)

- EENG 4460 Senior Design 4 sch

## Electives (9 sch)

Choose 3 courses

- EENG 4302 Digital Systems 3 sch
- EENG 4312 Instrumentation Systems 3 sch
- EENG 4320 Computer Architecture and Design 3 sch
- EENG 4335 Direct Generation Methods 3 sch
- EENG 4380 Special Topics in Electrical Engineering 3 sch
- EENG 4391 Independent Study in Electrical Engineering 3 sch

# Energy Land Management, BBA

## Degree Requirements

### Degree Requirements

1. The minimum total credits required for a BBA degree is 120.
2. At least 30 hours of upper-level courses must be completed at UTPB
3. The minimum number of upper-level credit hours is 54.
4. At least 50 percent of the upper-level business core must be taken from an AACSB-accredited program (12 sch).
5. The College of Business requires a GPA of 2.25 in the following lower-level courses: COMM 1315, ENGL 1301, ENGL 1302, MATH 1314, ACCT 2301, ACCT 2302, BUSI 1301, BUSI 2342, BUSI 2345, and ECON 2302.
6. Student must achieve a minimum cumulative GPA of 2.0 in all upper-level business core courses, the capstone course, and all business elective courses.
7. Students must receive a "C" or better in all required major courses including options and major electives.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3 or 4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch

- MATH 2412 Precalculus 4 sch

### Life and Physical Sciences (6 sch)

- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch

### Social and Behavioral Sciences (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (3 sch)

\*Additional hour met with ECON 2302

- ECON 2302 Principles of Microeconomics 3 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch

### Lower Level Business Courses (18 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- ACCT 2302 Principles of Managerial Accounting 3 sch
- BUSI 1301 Business Principles 3 sch
- BUSI 2342 Principles of Statistics 3 sch
- BUSI 2345 Data Analysis with Excel 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

## Business Core (24 sch)

- BUSI 3311 Business Communications 3 sch
- BUSI 3324 Business and the Law 3 sch
- FINA 3320 Principles of Finance 3 sch
- MNGT 3310 Principles of Management 3 sch
- MNGT 3333 Information System Fundamentals 3 sch
- MNGT 3340 Production Operations Management 3 sch
- MRKT 3300 Principles of Marketing 3 sch

### Capstone Class

- MNGT 4375 Strategic Management 3 sch

## Major Courses (36 Sch)

### Required Courses (24 sch)

- GEOL 4329 GIS and GPS Applications 3 sch
- MNGT 3305 Landman Principles 3 sch
- MNGT 4324 Energy Law 3 sch
- MNGT 4325 Environmental Law & Regulation in the Energy Industry 3 sch
- MNGT 4326 Real Property Law 3 sch
- MNGT 4350 Negotiation 3 sch
- PTEC 3301 Petroleum Fundamentals 3 sch

## Options

Choose one (1) from each option

### Management Option (3 sch)

Select 1 from this group of courses

- MNGT 4307 Project Management Elements 3 sch
- MNGT 4340 Operations Analysis and Control 3 sch
- MNGT 4380 Total Quality Management 3 sch

### Energy Option (3 sch)

Select 1 from this group of courses

- ACCT 4310 Oil and Gas Accounting 3 sch
  - FINA 4327 Principles of Investments 3 sch
  - MNGT 3309 Energy Management 3 sch
  - MRKT 4305 Energy Marketing 3 sch
- \*\*GEOL 1101, GEOL 1102, GEOL 1301, and GEOL 1302 are required for the degree and should be taken for the common core science requirement and are also required for the energy option.

## Electives (1 to 6 sch)

Any course offered by the College of Business or an internship needed to meet the 120 hour requirement and the 48 hour upper level requirement.

# English, BA

## Degree Requirements

It is the student's responsibility to read the university catalog and be familiar with degree requirements.

1. Complete at least **120** semester credit hours.
2. Complete at least 48 hours at the junior/senior level. At least 30 of these hours must be completed at UTPB
3. Complete at least 18 hours in a minor. At least 9 of these must be at the junior/senior level. Students seeking a second teaching field for secondary certification in English must complete all requirements for the major.
4. Earn at least a C grade in all English courses counting toward the minimum course requirements and maintain at least a GPA of 2.00 for all courses applicable toward the B.A. degree. Students seeking teacher certification must maintain a GPA of at least 2.75 in all English courses beyond Freshman Composition.
5. No more than 47 semester credit hours of English may be applied toward the 120 semester credit hour minimum required for a degree.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch

- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)



- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Computer Use

All majors must demonstrate a basic use of computing through either a computer literacy test, COSC 1335, or similar computer science course which requires the actual use of computers.

## Major Requirements (30 sch)

The student who chooses English as a major should select courses according to the following guidelines.

1. Two semesters of Freshman English or composition and language study ENGL 1301 and ENGL 1302 are prerequisite for the major.
2. Thirty semester credit hours (30 sch) of study at the sophomore level and above is required for the major with a minimum of 24 semester credit hours at the upper level.
3. At least six semester credit hours of study must be at the senior level.
4. Required courses:
  - ENGL 3300
  - One course in American Literature
  - One course in British Literature
  - One course in Fiction
  - One course in Poetry
  - One course in Drama
  - One Language and Retic course

## British Literature (one required)

- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 3332 Literature and Art 3 sch
- ENGL 3352 Eighteenth-Century Women Poets 3 sch
- ENGL 4321 Topics in British Poetry 3 sch
- ENGL 4332 The Nineteenth-Century British Novel 3 sch
- ENGL 4333 The Twentieth-Century British Novel 3 sch

## American Literature (one required)

- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- ENGL 3306 American Multicultural Fiction 3 sch
- ENGL 3320 American Fiction 1860-1900 3 sch
- ENGL 3335 American Women Novelists 3 sch
- ENGL 4302 20th-Century American Poetry 3 sch
- ENGL 4305 American Drama 3 sch
- ENGL 4315 American Romantic Fiction 1800-1860 3 sch
- ENGL 4361 New York School Poets 3 sch

## Electives

- ENGL 3311 Drama: Comedy 3 sch
- ENGL 3330 Film as Literature 3 sch
- ENGL 3333 Literature & Mythology 3 sch
- ENGL 3341 Creative Writing 3 sch
- ENGL 3362 Poetry: Forms and Themes 3 sch

## Language/Rhetoric (one required)

- ENGL 3340 Advanced Composition 3 sch
- ENGL 3371 The English Language 3 sch
- ENGL 3372 English Grammar 3 sch
- ENGL 4340 Professional Writing 3 sch
- ENGL 4371 Rhetoric and Composition 3 sch

## Minor (or Second Teaching Field) (18 sch)

At least 9 of these must be at the junior/senior level.

# Exercise Science, BS

## Degree Requirements

1. Read the UT Permian Basin catalog and be familiar with the University's requirements for the BS degree. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the B.S. degree.
2. Complete at least **120** semester credit hours for the B.S. degree.
3. At least **48** credits must be at the junior or senior level. At least **30** of these hours must be completed at UT Permian Basin.
4. Students majoring in Kinesiology are required to complete an academic minor.
5. Obtain at least a "C" grade in all Kinesiology courses. Maintain a "C" grade in all Minor and Prerequisite courses applicable toward the degree in Kinesiology.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3 or 4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch

## Kinesiology Pre-Requisites (31 sch)

- BIOL 3151 Human Anatomy Laboratory 1 sch
- BIOL 3350 Human Anatomy 3 sch
- BIOL 3153 Human Physiology Laboratory 1 sch
- BIOL 3352 Human Physiology 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch

- CHEM 1312 General Chemistry II 3 sch
- MATH 2412 Precalculus 4 sch
- PHYS 1101 College Physics I Laboratory 1 sch
- PHYS 1301 College Physics I 3 sch
- PHYS 1102 College Physics II Laboratory 1 sch
- PHYS 1302 College Physics II 3 sch
- PSYC 3301 Introductory Statistics 3 sch

## Student Success

- KINE 2001 (required semesters 1 and 2 of sophomore year)
- KINE 3001 (required semesters 1 and 2 of junior year)
- KINE 4001 (required semesters 1 and 2 of senior year)

## Exercise Science Core Curriculum (44 sch)

- KINE 3251 Physiology of Exercise Lab 2 sch
- KINE 3310 Motor Development 3 sch
- KINE 3340 Analysis of Human Movement 3 sch
- KINE 3350 Physiology of Exercise 3 sch
- KINE 3500 Health and Fitness Assessment 5 sch
- KINE 4300 Measurement of Performance in Exercise Sciences 3 sch
- KINE 4350 Psychology of Exercise 3 sch
- KINE 4362 Cardiorespiratory Physiology I 3 sch
- KINE 4364 Exercise and Nutrition 3 sch
- KINE 4393 Practicum: Exercise Science I 3 sch
- KINE 4460 Exercise for Special Populations 4 sch
- KINE 4494 Practicum: Exercise Science II 4 sch
- KINE 4565 Concepts in Strength and Conditioning 5 sch

## Elective Course (3 sch)

Choose ONE elective offered alternating semester.

- KINE 4363 Cardiorespiratory Physiology II 3 sch
- KINE 4367 Biogenetics and Exercise 3 sch
- KINE 4375 Pathophysiology and Exercise 3 sch

# Finance, BBA

## Degree Requirements

### Degree Requirements

1. The minimum total credits required for a BBA degree is 120.
2. At least 30 hours of upper-level courses must be completed at UTPB
3. The minimum number of upper-level credit hours is 54.
4. At least 50 percent of the upper-level business core must be taken from an AACSB-accredited program (12 sch).
5. The College of Business requires a GPA of 2.25 in the following lower-level courses: COMM 1315, ENGL 1301, ENGL 1302, MATH 1314, ACCT 2301, ACCT 2302, BUSI 1301, BUSI 2342, BUSI 2345, and ECON 2302.
6. Student must achieve a minimum cumulative GPA of 2.0 in all upper-level business core courses, the capstone course, and all business elective courses.
7. Students must receive a "C" or better in all required major courses including options and major electives.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3 sch)

- MATH 1324 Applications of Discrete Mathematics 3 sch

## Life and Physical Sciences (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch \*

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch \*

## Social and Behavioral Sciences (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (3 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch

- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- ECON 2302 Principles of Microeconomics 3 sch

## Lower Level Business Courses (18 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- ACCT 2302 Principles of Managerial Accounting 3 sch
- BUSI 1301 Business Principles 3 sch
- BUSI 2342 Principles of Statistics 3 sch
- BUSI 2345 Data Analysis with Excel 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

## Business Core (24 sch)

- ACCT 3333 Information System Fundamentals 3 sch
- BUSI 3311 Business Communications 3 sch
- BUSI 3324 Business and the Law 3 sch
- FINA 3320 Principles of Finance 3 sch
- MNGT 3310 Principles of Management 3 sch
- MNGT 3340 Production Operations Management 3 sch
- MRKT 3300 Principles of Marketing 3 sch

### Capston Class

- MNGT 4375 Strategic Management 3 sch

## Upper Level Business Electives (6 sch)

- 6 sch of business classes not already used to meet a requirement of the degree.

## Major Courses (36 sch)

### Content Tools (9 sch)

- ACCT 3301 Intermediate Accounting I 3 sch
- **Or**
- ACCT 3310 Accounting for Business Decision-Makers 3 sch
- Content Elective (3 sch)
- Content Elective (3 sch)

### Finance Electives (9 sch)

- Select 3 upper-level FINA courses not used to satisfy another requirement.



- FINA 3324 Financial Planning 3 sch
- FINA 3331 Principles of Real Estate 3 sch
- FINA 4322 Management of Financial Institutions 3 sch
- FINA 4324 Market Microstructure 3 sch
- FINA 4325 Options and Futures 3 sch
- FINA 4331 Energy Finance 3 sch
- FINA 4333 Healthcare Finance 3 sch
- FINA 4340 Financial Statement Analysis 3 sch

## Foundational Finance (12 sch)

- FINA 4320 International Finance 3 sch
- FINA 4321 Intermediate Corporate Finance 3 sch
- FINA 4323 Financial Markets, Institutions & Instruments 3 sch
- FINA 4327 Principles of Investments 3 sch

## Energy Certificate

Students wishing to also earn an energy certificate should choose electives that meet the certificate requirements  
Energy Business Certificate

# Geology, BS

The Bachelor of Science degree in Geology prepares students for positions in earth science related professions especially in the petroleum and mining industries, the environmental industry, for graduate studies and teaching. The Geology curriculum provides students with an excellent theoretical and practical background, but is not so narrowly focused as to limit opportunities in a rapidly changing marketplace. The department leans heavily on subsurface studies using drill cuttings, core, petrophysical logs, and geophysical data because rocks do not crop out in the Permian Basin. Many courses also have a strong field component that leads students to rock outcrops in the nearby mountainous areas.

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BA degree.
2. Complete at least **120** sch for the BS degree.
3. At least 30 sch must be completed at U.T.P.B.
4. At least 24 of the last 30 must be taken at U.T.P.B.
5. At least **48** sch must be taken at the upper level.
6. Maintain at least a GPA of 2.0 or C in all courses applicable toward the BS degree

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

## Mathematics (4 sch)

- MATH 2412 Precalculus 4 sch

## Life and Physical Sciences (6 sch)

- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2 to 3 sch)

- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch

## Support Science Requirements (27 sch)

## Mathematics (11 sch)

- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch
- PSYC 3301 Introductory Statistics 3 sch
- Or
- MATH 3301 Introduction to Probability I 3 sch

## Chemistry (8 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch

## Other Sciences (8 sch)

- PHYS 1101 College Physics I Laboratory 1 sch
- PHYS 1301 College Physics I 3 sch
- Or
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 1102 College Physics II Laboratory 1 sch
- PHYS 1302 College Physics II 3 sch
- Or
- PHYS 2126 University Physics II Laboratory 1 sch
- PHYS 2326 University Physics II 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1306 General Biology I 3 sch

## Required Geology Courses (42 sch)

### Lower Level (8 sch)

- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch

### Upper Level (34 sch)

- GEOL 3103 Mineralogy Laboratory 1 sch
- GEOL 3303 Mineralogy 3 sch
- GEOL 3104 Igneous and Metamorphic Rocks Laboratory 1 sch
- GEOL 3304 Igneous and Metamorphic Rocks 3 sch
- GEOL 3105 Structural Geology Laboratory 1 sch
- GEOL 3305 Structural Geology 3 sch
- GEOL 3107 Invertebrate Paleontology Laboratory 1 sch
- GEOL 3307 Invertebrate Paleontology 3 sch

- GEOL 3108 Sedimentology Lab 1 sch
- GEOL 3308 Sedimentology 3 sch
- GEOL 4100 Basic Field Methods 1 sch
- GEOL 3129 GIS and GPS Applications 1 sch
- GEOL 4309 Sequence Stratigraphy 3 sch
- GEOL 4329 GIS and GPS Applications 3 sch
- GEOL 4600 Advanced Field Geology 6 sch

## Electives (3-21 sch)

As needed to complete 120 sch. A minimum of 6 sch of upper division geology elective courses is required. See the course catalog for the full list of geology elective courses.

## Minor (18 sch)

Minors may be completed from any discipline, but no minor is required for a B.S. in Geology. A student electing not to pursue a minor will take additional upper division geology courses as needed to complete 120 sch.

## Accelerated Master's Pathway (AMP)

This program has an Accelerated Master's Pathway (AMP) option. AMP allows for highly qualified students in the UTPB undergraduate program noted above to be eligible for admissions to a master's level program. Students who successfully complete the AMP will be granted automatic admissions into the corresponding UTPB graduate program. For more information about the AMP program please contact the office of Graduate Studies or the AMP Coordinator for this major.

# Geology, BS - Environmental Concentration

The Environmental Geology Concentration is designed for students who intend to pursue employment in the environmental industry or in local, state, or federal agencies that regulate the environmental impacts. Environmental geologists are tasked with evaluating and managing groundwater, surface water, and other natural resources, conducting and overseeing assessment and remediation of contaminated soil and water, performing investigations using geochemical, geotechnical, and geophysical field and laboratory methods and preparing reports for local, state, and federal governments or the public.

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BA degree.
2. Complete at least **120** sch for the BS degree.
3. At least 30 sch must be completed at U.T.P.B.
4. At least 24 of the last 30 must be taken at U.T.P.B.
5. At least **48** sch must be taken at the upper level.
6. Maintain at least a GPA of 2.0 or C in all courses applicable toward the BS degree

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2412 Precalculus 4 sch

### Life and Physical Sciences (6 sch)

- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 to 3 sch)

- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch

### Support Science Requirements (27 sch)

#### Mathematics (11 sch)

- MATH 2412 Precalculus 4 sch

- MATH 2413 Calculus I 4 sch
- PSYC 3301 Introductory Statistics 3 sch  
Or
- MATH 3301 Introduction to Probability I 3 sch

## Chemistry (8 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch

## Other Sciences (8 sch)

- PHYS 1101 College Physics I Laboratory 1 sch
- PHYS 1301 College Physics I 3 sch  
Or
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 1102 College Physics II Laboratory 1 sch
- PHYS 1302 College Physics II 3 sch  
Or
- PHYS 2126 University Physics II Laboratory 1 sch
- PHYS 2326 University Physics II 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1306 General Biology I 3 sch

## Required Geology Courses (42 sch)

### Lower Level (8 sch)

- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch

### Upper Level (34 sch)

- GEOL 3103 Mineralogy Laboratory 1 sch
- GEOL 3303 Mineralogy 3 sch
- GEOL 3104 Igneous and Metamorphic Rocks Laboratory 1 sch
- GEOL 3304 Igneous and Metamorphic Rocks 3 sch
- GEOL 3105 Structural Geology Laboratory 1 sch
- GEOL 3305 Structural Geology 3 sch
- GEOL 3107 Invertebrate Paleontology Laboratory 1 sch
- GEOL 3307 Invertebrate Paleontology 3 sch
- GEOL 3108 Sedimentology Lab 1 sch



- GEOL 3308 Sedimentology 3 sch
- GEOL 4100 Basic Field Methods 1 sch
- GEOL 3129 GIS and GPS Applications 1 sch
- GEOL 4309 Sequence Stratigraphy 3 sch
- GEOL 4329 GIS and GPS Applications 3 sch
- GEOL 4600 Advanced Field Geology 6 sch

## Required Electives (17 sch)

In addition to the required major courses, students pursuing an environmental geology concentration must satisfy the following area competencies.

### Area 1 (9 sch)

- GEOL 3316 Introduction to Groundwater 3 sch
- GEOL 3317 Environmental Geology 3 sch
- GEOL 4300 Micropaleontology 3 sch
- GEOL 4316 Earth Resources and the Environment 3 sch
- GEOL 4318 Oceanography 3 sch
- BIOL 3372 Principles of Ecology 3 sch

### Area 2 (3 sch)

- GEOL 4329 GIS and GPS Applications 3 sch
- GEOL 4332 Containment Hydrogeology (3 sch)
- GEOL 4335 Arid Lands Hydrology (3 sch)

### Area 3 (3 sch)

- GEOL 4324 Environmental Geophysics 3 sch
- GEOL 4337 Environmental Site Assessment and Remediation 3 sch
- GEOL 4338 Geologic Hazards, Risks, and Associated Policies 3 sch
- GEOL 4358 Principles of Geochemistry 3 sch

### Area 4 (4 sch)

- GEOL 4136 Soil Science Lab 1 sch
- GEOL 4170 Workshop 1 sch
- GEOL 4336 Soil Science 3 sch
- GEOL 4317 Geology of the Permian Basin 3 sch

## Electives (3-21 sch)

As needed to complete 120 sch. A minimum of 6 sch of upper division geology elective courses is required. See the course catalog for the full list of geology elective courses.

## Minor (18 sch)

Minors may be completed from any discipline, but no minor is required for a B.S. in Geology. A student electing not to pursue a minor will take additional upper division geology courses as needed to complete 120 sch.

# Geology, BS - Petroleum Concentration

The Petroleum Geology concentration is designed for students who intend to pursue employment in the petroleum industry or in state or federal agencies that regulate the petroleum industry. Petroleum geologists address the origin, distribution, exploration, development, and production of oil and natural gas resources. Petroleum geoscientists are trained to use many different types of data including rock cores from wells, well logs containing rock and fluid properties, and multidimensional subsurface and seismic data.

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BA degree.
2. Complete at least **120** sch for the BS degree.
3. At least 30 sch must be completed at U.T.P.B.
4. At least 24 of the last 30 must be taken at U.T.P.B.
5. At least **48** sch must be taken at the upper level.
6. Maintain at least a GPA of 2.0 or C in all courses applicable toward the BS degree

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2412 Precalculus 4 sch

## Life and Physical Sciences (6 sch)

- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2 to 3 sch)

- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch

## Support Science Requirements (27 sch)

### Mathematics (11 sch)

- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

- PSYC 3301 Introductory Statistics 3 sch
- Or
- MATH 3301 Introduction to Probability I 3 sch

## Chemistry (8 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch

## Other Sciences (8 sch)

- PHYS 1101 College Physics I Laboratory 1 sch
- PHYS 1301 College Physics I 3 sch
- Or
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2325 University Physics I 3 sch
  
- PHYS 1102 College Physics II Laboratory 1 sch
- PHYS 1302 College Physics II 3 sch
- Or
- PHYS 2126 University Physics II Laboratory 1 sch
- PHYS 2326 University Physics II 3 sch
  
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1306 General Biology I 3 sch

## Required Geology Courses (42 sch)

### Lower Level (8 sch)

- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch

### Upper Level (34 sch)

- GEOL 3103 Mineralogy Laboratory 1 sch
- GEOL 3303 Mineralogy 3 sch
- GEOL 3104 Igneous and Metamorphic Rocks Laboratory 1 sch
- GEOL 3304 Igneous and Metamorphic Rocks 3 sch
- GEOL 3105 Structural Geology Laboratory 1 sch
- GEOL 3305 Structural Geology 3 sch
- GEOL 3107 Invertebrate Paleontology Laboratory 1 sch
- GEOL 3307 Invertebrate Paleontology 3 sch
- GEOL 3108 Sedimentology Lab 1 sch
- GEOL 3308 Sedimentology 3 sch

- GEOL 4100 Basic Field Methods 1 sch
- GEOL 3129 GIS and GPS Applications 1 sch
- GEOL 4309 Sequence Stratigraphy 3 sch
- GEOL 4329 GIS and GPS Applications 3 sch
- GEOL 4600 Advanced Field Geology 6 sch

## Required Electives (17 sch)

### Area 1 (6 sch)

- GEOL 4317 Geology of the Permian Basin 3 sch
- GEOL 4348 Petroleum Geology 3 sch

### Area 2 (5 sch)

- GEOL 4102 Core Description 1 sch
- GEOL 4170 Workshop 1 sch
- GEOL 4300 Micropaleontology 3 sch
- GEOL 4301 Applied Stratigraphy 3 sch

### Area 3 (3 sch)

- GEOL 3316 Introduction to Groundwater 3 sch
- GEOL 3317 Environmental Geology 3 sch
- GEOL 4316 Earth Resources and the Environment 3 sch

### Area 4 (3 sch)

- GEOL 4320 Exploration Geophysics 3 sch
- GEOL 4321 Introduction to Seismic Exploration 3 sch
- GEOL 4349 Basic Well Logging 3 sch

## Electives (3-21 sch)

As needed to complete 120 sch. A minimum of 6 sch of upper division geology elective courses is required. See the course catalog for the full list of geology elective courses.

## Minor (18 sch)

Minors may be completed from any discipline, but no minor is required for a B.S. in Geology. A student electing not to pursue a minor will take additional upper division geology courses as needed to complete 120 sch.

# Healthcare Management, BBA

The primary goal of the Healthcare Management program is to give students an understanding of the nature and capabilities of people working in and making key decisions for healthcare service organizations. Faculty and business leaders believe an understanding of management theory and research provides the foundation for effective application and practice in the business environment. This foundation prepares students for study of elements unique to the healthcare industry so as to prepare graduates for careers in management roles in this dynamic, growing industry.

Students pursuing Bachelor of Business Administration (BBA) in Healthcare Management degree receive a broadly based general business education with a focus on the unique issues of the healthcare industry

## Degree Requirements

### Degree Requirements

1. The minimum total credits required for a BBA degree is 120.
2. At least 30 hours of upper-level courses must be completed at UTPB
3. The minimum number of upper-level credit hours is 54.
4. At least 50 percent of the upper-level business core must be taken from an AACSB-accredited program (12 sch).
5. The College of Business requires a GPA of 2.25 in the following lower-level courses: COMM 1315, ENGL 1301, ENGL 1302, MATH 1314, ACCT 2301, ACCT 2302, BUSI 1301, BUSI 2342, BUSI 2345, and ECON 2302.
6. Student must achieve a minimum cumulative GPA of 2.0 in all upper-level business core courses, the capstone course, and all business elective courses.
7. Students must receive a "C" or better in all required major courses including options and major electives.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch

- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3 or 4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch

### Social and Behavioral Sciences (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch



## Component Area Option (3 sch)

- ECON 2302 Principles of Microeconomics 3 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Lower Level Business Courses (18 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- ACCT 2302 Principles of Managerial Accounting 3 sch
- BUSI 1301 Business Principles 3 sch
- BUSI 2342 Principles of Statistics 3 sch
- BUSI 2345 Data Analysis with Excel 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

## Business Core (24 sch)

- BUSI 3311 Business Communications 3 sch
- BUSI 3324 Business and the Law 3 sch
- FINA 3320 Principles of Finance 3 sch
- MNGT 3310 Principles of Management 3 sch
- MNGT 3333 Information System Fundamentals 3 sch
- MNGT 3340 Production Operations Management 3 sch
- MRKT 3300 Principles of Marketing 3 sch

### **Capstone Class**

- MNGT 4375 Strategic Management 3 sch

## Major Requirements (33-34 sch)

Complete the three groups.

### Group 1 (9 sch)

- MNGT 3312 Human Resource Management 3 sch
- MNGT 4380 Total Quality Management 3 sch

Choose 1

- MNGT 4320 International Management 3 sch
- MRKT 4320 International Marketing 3 sch
- ECON 4320 International Trade 3 sch
- FINA 4320 International Finance 3 sch

## Group 2 (15 sch)

Choose 5 courses.

- ACCT 4334 Accounting for Healthcare 3 sch
- FINA 4333 Healthcare Finance 3 sch
- MNGT 3334 Healthcare Management Information Systems 3 sch
- MNGT 4331 Healthcare Management 3 sch
- MNGT 4336 Healthcare Law 3 sch
- MRKT 4335 Healthcare Marketing 3 sch

## Group 3 (9 sch)

- COMM 4351 Health Communication 3 sch
- MNGT 4337 Quality Improvement in Healthcare 3 sch
- MNGT 4391 Contract Study in Management 3 sch
- MNGT 4392 Internship in Management 3 sch
- PSYC 4307 Health Psychology 3 sch
- PUBH 4310 Essentials of Environmental Health 3 sch
- SOCI 4362 Sociology of Health and Illness 3 sch

## Electives (0-3 sch)

Electives at any level to reach 120 sch.

# History, BA

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BA degree.
2. Complete at least 120 sch for the BA degree. At least 30 of these must be completed at U. T. Permian Basin and at least 24 of the last 30 must be taken at U. T. Permian Basin.
3. At least 48 sch must be at the upper level.
4. Complete at least 18 sch in a minor.
5. Obtain at least a C grade in all major courses. Maintain a GPA of 2.0 or C in all courses applicable toward the BA degree. Students seeking teacher certification must maintain a GPA of at least 2.75 in all History courses.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch

- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Major Requirements (36 sch)

In addition to HIST 1301 and HIST 1302, students must complete:

- at least one 2000-level non-US course

At least one upper level (3000 or 4000 level) in each of four groups:

- American History to 1900
- 20th Century American History
- European History
- World History

It is desirable that these courses be completed during the junior and senior years.

Further, students must complete a 4000-level course designated by the department as "senior seminar", or a 6000-level course for qualified students, which must be passed with a "B-" grade or better. This course may count toward fulfilling a field group.

## Lower Level History Courses

- HIST 2321 World Civilizations to 1500 3 sch
- HIST 2322 World Civilizations since 1500 3 sch

### Group 1: United States to 1900

- HIST 3341 Colonial America 3 sch
- HIST 3342 Revolutionary America, 1763-1789 3 sch
- HIST 3343 Early National Period, 1789-1828 3 sch
- HIST 3344 Jacksonian America, 1828-1850 3 sch
- HIST 3345 Civil War and Reconstruction, 1850-1877 3 sch
- HIST 3355 Slavery in America 3 sch
- HIST 4346 Gilded Age 3 sch
- HIST 4349 Studies in pre-1900 US History 3 sch
- HIST 4359 Studies in Women's History 19th Century 3 sch

### Group 2: United States since 1900

- HIST 3347 Depression and War, 1929-1945 3 sch
- HIST 3348 Post-War America 1945-present 3 sch
- HIST 3350 Texas 3 sch

- HIST 3359 Studies in Mexican-American History 3 sch
- HIST 4305 Topics in Sports History 3 sch
- HIST 4350 Progressive Era 3 sch
- HIST 4359 Studies in Women's History 19th Century 3 sch
- HIST 4360 The Modern Presidency 3 sch
- HIST 4366 The Civil Rights Movement 3 sch
- HIST 4370 American Petroleum Industry 3 sch
- HIST 4371 United States Sports History 3 sch
- HIST 4379 Studies In post-1900 US History 3 sch

### Group 3: Europe

- HIST 3326 19th-Century Europe 3 sch
- HIST 3331 Tudor-Stuart England 3 sch
- HIST 3332 Great Britain Since 1714 3 sch
- HIST 3335 Modern Germany 3 sch
- HIST 4326 The French Revolution 3 sch
- HIST 4336 Third Reich and Holocaust 3 sch
- HIST 4339 Studies In European History 3 sch

### Group 4: World

- HIST 3306 Modern Africa 3 sch
- HIST 3381 Modern China 3 sch
- HIST 4304 Global Sports History 3 sch
- HIST 4305 Topics in Sports History 3 sch
- HIST 4307 South Africa 3 sch
- HIST 4319 Studies In Latin America 3 sch
- HIST 4327 World War I 3 sch
- HIST 4389 Studies in World History 3 sch

### Seminar Course

A 4000-level course designated by the department as "senior seminar" or a 6000-level course for qualified students, which must be passed with a "B-" grade or better.

### Minor

In general, a minor consists of 18 sch, of which 12 sch must be upper level, but refer to Discipline specifications.

### TEXES Requirements

**Candidates for TEXES tests in History must have completed the courses listed for each area below or equivalent courses.**

**7-12 History:** Meet the requirements for the History major. Texas History is strongly recommended as one of the history courses.

**Social Studies 7-12:** Meet all of the requirements for the History major. Texas History is strongly recommended as one of the history courses. Other courses to be completed include ECON 2301, GEOG 1301 or GEOG 1303 and PLSC 2305 and PLSC 2306. Additional coursework in geography and/or political science is highly recommended.

## Accelerated Master's Pathway (AMP)

This program has an Accelerated Master's Pathway (AMP) option. AMP allows for highly qualified students in the UTPB undergraduate program noted above to be eligible for admissions to a master's level program. Students who successfully complete the AMP will be granted automatic admissions into the corresponding UTPB graduate program. For more information about the AMP program please contact the office of Graduate Studies or the AMP Coordinator for this major.

# Humanities, BA

The total credit hours required for a B.A. in Humanities is 120.

## General Education Requirements (42 sch)

No courses used to complete the General Education requirements may also be used to complete the requirements for the tracks within the Humanities major.

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3 or 4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (8 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch



- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch

- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- COMM 1115 Communication Lab 1 sch

## Computer Use

All majors must demonstrate a basic use of the computer as an academic instrument, either by taking a proficiency test or a computer-based course such as COSC 1335 .

## Humanities Core (30 sch)

### History (6 sch)

Two 2000-level courses.

- HIST 2321 World Civilizations to 1500 3 sch
- HIST 2322 World Civilizations since 1500 3 sch
- History 23XX (non-US) (3) sch

### English (6 sch)

Two courses chosen from the following. These courses cannot have been used to fulfill the general education requirements. Other 2000-level English courses may be substituted with consent of the Humanities Program Head.

- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- ENGL 3332 Literature and Art 3 sch
- ENGL 3333 Literature & Mythology 3 sch

### Communication or Foreign Language (6 sch)

Two courses to be taken in either Communication or in a foreign language. No course used to complete the general education requirements may also be used to complete the requirements for the tracks within the major.

### Fine Arts (12 sch)

Four lower-division courses to be taken in:

- Art
- Drama
- Music
- Humanities.

## Interdisciplinary Area of Concentration (24 sch, at least 18 upper-division)

These courses to be dispersed among not less than two but not more than four fields among History, English, Spanish, Communication, Drama, Art, or Music. Students must enroll in at least two courses in each chosen field. Courses counted toward the 30 hours of the General Studies Core may not count toward the 24 hours of the interdisciplinary area of concentration.

## Capstone Senior Project (3 sch)

A three-unit senior thesis to be fulfilled with a "senior project" or contract-study course with a faculty member in a Humanities-related field. Such courses would include the following:

- ARTS 4392 Internship 3 sch
- HIST 4391 Contract Study 3 sch
- HUMA 4301 Virtual Reality 3 sch

# Humanities, BA - Visual and Performing Arts Track

The total credit hours required for a B.A. in Humanities is 120.

## General Education Requirements (42 sch)

No courses used to complete the General Education requirements may also be used to complete the requirements for the tracks within the Humanities major.

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3 or 4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (8 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch

- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch

- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- COMM 1115 Communication Lab 1 sch

## Computer Use

All majors must demonstrate a basic use of the computer as an academic instrument, either by taking a proficiency test or a computer-based course such as COSC 1335.

## Visual and Performing Arts Courses (57 sch)

### Lower Division (27 sch)

#### Art (12 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1311 Two-Dimensional Design 3 sch **or**
- ARTS 1312 Three-Dimensional Design 3 sch
- ARTS 1316 Introduction to Drawing 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch

#### Drama (6 sch)

#### Music (9 sch)

- MUSI 1306 Music Appreciation 3 sch

Music Ensemble (6 hours) from the following repeatable courses:

- MUEN 1121 University Choir 1 sch
- MUEN 1122 Falcon Wind Band 1 sch
- MUEN 1123 University Philharmonic 1 sch

### Upper Division (30 sch)

#### Art (9 sch)

##### 2-D Art

(3 hours from the following:)

- ARTS 3311 Drawing for Non-Art Majors 3 sch
- ARTS 3320 Painting 3 sch

- ARTS 3350 Relief Printmaking 3 sch
- ARTS 3351 Silkscreen 3 sch
- ARTS 4320 Advanced Painting I 3 sch
- ARTS 4321 Advanced Painting II 3 sch
- ARTS 4350 Intaglio 3 sch
- ARTS 4351 Lithography 3 sch
- ARTS 4352 Advanced Printmaking I 3 sch
- ARTS 4353 Advanced Printmaking II 3 sch

### 3-D Art

(3 hours from the following:)

- ARTS 3331 Sculpture 3 sch
- ARTS 3340 Ceramics for Non-Art Majors 3 sch
- ARTS 3341 Ceramic Form 3 sch
- ARTS 3360 Papermaking/Bookmaking 3 sch
- ARTS 4330 Sculpture: The Human Form 3 sch
- ARTS 4333 Advanced Sculpture 3 sch

### Art History

(3 hours from the following:)

- ARTS 3301 Women Artists I 3 sch
- ARTS 3302 Women Artists II 3 sch
- ARTS 3303 American Art I 3 sch
- ARTS 3305 Modern Hispanic Art and Its Foundation 3 sch
- ARTS 4301 Art since 1940 3 sch

### Drama (12 sch)

- DRAM 3310 Tragedy and Melodrama 3 sch
- DRAM 3311 Drama: Comedy 3 sch

### Music (9 sch)

- MUSI 3308 Music History I 3 sch
- MUSI 3309 Music History II 3 sch
- Three further upper-division hours (student's choice)

### Senior Project (3 sch)

To be arranged with faculty member in Humanities field.

- ARTS 4392 Internship 3 sch
- ARTS 4393 BFA Seminar 3 sch

- HUMA 4301 Virtual Reality 3 sch



# Industrial Technology, BS

Students pursuing a Bachelor of Science (B.S.) in Industrial Technology degree receive a broad based general Industrial Technology education. Students develop not only their technical skills but their personality, cooperativeness, innovativeness, concern for the organization, communication skills and dependability. Graduates of the program will be equipped to meet the new and emerging challenge of a modern high technology society.

## Degree Requirements

The minimum total credits required for a BS degree in Industrial Technology is **120**.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch

### Component Area Option (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 - 3 sch)

- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- COMM 1115 Communication Lab 1 sch

### Computer Use

Industrial Technology Majors must demonstrate a basic use of computing through completion of COSC 1335, or through examination. ENGR 1204 will develop skills in computer aided design.

### Required Courses (32 sch)

#### Lower Level (14 sch)

- ENGR 1204 Engineering Graphics 2 sch
- COSC 1335 Computers and Problem Solving 3 sch
- ACCT 2301 Principles of Financial Accounting 3 sch

- ECON 2302 Principles of Microeconomics 3 sch

## Upper Level (18 sch)

- ITEC 3305 Occupational Safety and Health Concepts 3 sch
- ITEC 3307 Project Management Concepts 3 sch
- ITEC 3380 Technology Management 3 sch
- ITEC 4380 Total Quality Management 3 sch
- MNGT 3310 Principles of Management 3 sch
- MNGT 3312 Human Resource Management 3 sch

## Elective Courses (27 sch)

Choose 9 courses from the following areas:

### Industrial Technology

- ITEC 3310 Manufacturing Technology 3 sch
- ITEC 3340 Facilities Design 3 sch
- ITEC 3350 Supply Chain Management 3 sch
- ITEC 3390 Technology and Society 3 sch
- ITEC 4302 Innovation and Entrepreneurship 3 sch
- ITEC 4303 Environmental Issues 3 sch
- ITEC 4306 Workplace Safety Assessment and Control 3 sch
- ITEC 4310 Energy Technology 3 sch
- ITEC 4340 Construction Technology 3 sch

### Petroleum Technology

- PTEC 3301 Petroleum Fundamentals 3 sch
- PTEC 3302 Petroleum Fluids and Natural Gas Technology 2 sch
- PTEC 3304 Drilling Technology 3 sch
- PTEC 4301 Petroleum Production Technology 3 sch
- PTEC 4302 Pipeline Technology 3 sch
- PTEC 4304 Wireline, Mud Logging, and Core Analysis 3 sch

## Free Electives (can use the elective courses above) (16 sch)

### Industrial Technology Capstone (3 sch)

- ITEC 4392 Internship 3 sch
- or
- BAAS 4393 Senior Project 3 sch

## Total 120 sch

## Social and Behavioral Sciences (3 sch)

# Information Systems, BS

## Degree Requirements

The minimum total credits required for a Bachelor's of Science in Information Systems is 120.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- COMM 1115 Communication Lab 1 sch

### Computer Use (11 sch)

- COSC 1335 Computers and Problem Solving 3 sch
- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch

## Business Core (15 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- ACCT 2302 Principles of Managerial Accounting 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- MNGT 3340 Production Operations Management 3 sch

## Mathematics (3 or 4 sch)

- MATH 1325 Applications of Continuous Mathematics 3 sch (MATH 2414 is an acceptable substitute)

## Major Course Requirements (37-39 sch)

All students are expected to complete COSC 1335, COSC 1430, and COSC 2430 or their equivalents before beginning the upper level major courses. These courses introduce general computer concepts and applications and develop programming skills. Programming skills are broadened through the completion of a course in a second high-level programming language.

- COSC 1335 Computers and Problem Solving 3 sch
- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 2420 C Programming 4 sch
- COSC 3310 Digital Computer Organization 3 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 4415 Database Systems 4 sch **or**
- COSC 4455 Multimedia and Web Development 4 sch
- ACCT 4311 Accounting Information Systems 3 sch **or**
- MNGT 3333 Information System Fundamentals 3 sch
- COSC 3/4XXX (3 or 4) sch
- COSC 4XXX (3 or 4) sch
- COSC 4395 Research 1-3 sch

## Business Minor (12 sch)

All information systems majors have in common the minor in general business which, combined with the business core, provides a solid foundation in business management.

- MNGT 3310 Principles of Management 3 sch
- MRKT 3300 Principles of Marketing 3 sch
- FINA 3320 Principles of Finance 3 sch

- ACCT 3310 Accounting for Business Decision-Makers 3 sch

## Capstone Courses (3 sch)

All information systems majors share a capstone experience with all other science and mathematics majors.

- NTSC 4311 History and Philosophy of Science 3 sch

## TExES Requirements

Candidates for TExES tests in information systems must complete the following courses or equivalent courses as approved by an information systems advisor.

- COSC 1335 Computers and Problem Solving 3 sch
- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2420 C Programming 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 4415 Database Systems 4 sch
- ACCT 4311 Accounting Information Systems 3 sch



# Management, BBA

## Degree Requirements

### Degree Requirements

1. The minimum total credits required for a BBA degree is 120.
2. At least 30 hours of upper-level courses must be completed at UTPB
3. The minimum number of upper-level credit hours is 54.
4. At least 50 percent of the upper-level business core must be taken from an AACSB-accredited program (12 sch).
5. The College of Business requires a GPA of 2.25 in the following lower-level courses: COMM 1315, ENGL 1301, ENGL 1302, MATH 1314, ACCT 2301, ACCT 2302, BUSI 1301, BUSI 2342, BUSI 2345, and ECON 2302.
6. Student must achieve a minimum cumulative GPA of 2.0 in all upper-level business core courses, the capstone course, and all business elective courses.
7. Students must receive a "C" or better in all required major courses including options and major electives.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3 or 4 sch)

- MATH 1324 Applications of Discrete Mathematics 3 sch

- MATH 1314 College Algebra 3 sch
- MATH 2412 Precalculus 4 sch

### Life and Physical Sciences (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Sciences (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch

- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- COMM 1115 Communication Lab 1 sch

## Lower Level Business Courses (18 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- ACCT 2302 Principles of Managerial Accounting 3 sch
- BUSI 1301 Business Principles 3 sch
- BUSI 2342 Principles of Statistics 3 sch
- BUSI 2345 Data Analysis with Excel 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

## Business Core (24 sch)

- BUSI 3311 Business Communications 3 sch
- BUSI 3324 Business and the Law 3 sch
- FINA 3320 Principles of Finance 3 sch
- MNGT 3310 Principles of Management 3 sch
- MNGT 3333 Information System Fundamentals 3 sch
- MNGT 3340 Production Operations Management 3 sch
- MRKT 3300 Principles of Marketing 3 sch

### Capstone Class

- MNGT 4375 Strategic Management 3 sch

## Upper Level Business Electives (9 sch)

- 9 sch of ACCT, BUSI, ECON, FINA, MNGT, or MRKT courses not already used to meet a requirement.

## Major Courses (27 sch)

### Required (9 sch)

- MNGT 3312 Human Resource Management 3 sch
- MNGT 3330 Organizational Behavior 3 sch
- MNGT 3370 Business and Ethics 3 sch

### International Option (3 sch)

Choose one course.

- ECON 4320 International Trade 3 sch
- FINA 4320 International Finance 3 sch
- MNGT 4320 International Management 3 sch
- MRKT 4320 International Marketing 3 sch

## Management Electives (15 sch)

- 15 sch of MNGT courses not already used to meet a requirement of the degree.

## Accelerated Master's Pathway (AMP)

This program has an Accelerated Master's Pathway (AMP) option. AMP allows for highly qualified students in the UTPB undergraduate program noted above to be eligible for admissions to a master's level program. Students who successfully complete the AMP will be granted automatic admissions into the corresponding UTPB graduate program. For more information about the AMP program please contact the office of Graduate Studies or the AMP Coordinator for this major.

# Marketing, BBA

## Degree Requirements

### Degree Requirements

1. The minimum total credits required for a BBA degree is 120.
2. At least 30 hours of upper-level courses must be completed at UTPB
3. The minimum number of upper-level credit hours is 54.
4. At least 50 percent of the upper-level business core must be taken from an AACSB-accredited program (12 sch).
5. The College of Business requires a GPA of 2.25 in the following lower-level courses: COMM 1315, ENGL 1301, ENGL 1302, MATH 1314, ACCT 2301, ACCT 2302, BUSI 1301, BUSI 2342, BUSI 2345, and ECON 2302.
6. Student must achieve a minimum cumulative GPA of 2.0 in all upper-level business core courses, the capstone course, and all business elective courses.
7. Students must receive a "C" or better in all required major courses including options and major electives.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3 or 4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch

- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch

### Social and Behavioral Sciences (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (3 sch)

- ECON 2302 Principles of Microeconomics 3 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch

- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Lower Level Business Courses (18 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- ACCT 2302 Principles of Managerial Accounting 3 sch
- BUSI 1301 Business Principles 3 sch
- BUSI 2342 Principles of Statistics 3 sch
- BUSI 2345 Data Analysis with Excel 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

## Business Core (24 sch)

- BUSI 3311 Business Communications 3 sch
- BUSI 3324 Business and the Law 3 sch
- FINA 3320 Principles of Finance 3 sch
- MNGT 3310 Principles of Management 3 sch
- MNGT 3333 Information System Fundamentals 3 sch
- MNGT 3340 Production Operations Management 3 sch
- MRKT 3300 Principles of Marketing 3 sch

### **Capstone Class**

- MNGT 4375 Strategic Management 3 sch

## Upper Level Business Electives (9 sch)

- 9 sch of ACCT, BUSI, ECON, FINA, MNGT, or MRKT courses not already used to meet a requirement.

## Major Courses (12 sch)

- MRKT 3307 Sales Management 3 sch
- MRKT 3315 Consumer Behavior 3 sch
- MRKT 4312 Marketing Strategy 3 sch
- MRKT 4314 Marketing Research and Information Systems 3 sch

## International Option (3 sch)

- ECON 4320 International Trade 3 sch
- FINA 4320 International Finance 3 sch
- MNGT 4320 International Management 3 sch
- MRKT 4320 International Marketing 3 sch

## Marketing Electives (12 sch)

- 12 sch of MRKT classes not already used to meet a requirement of the degree



# Mathematics, BS

## Degree Requirements

- The minimum total credits required for a B.S. in Mathematics is **120**. Of these, 48 must be upper level hours and 30 must be from UTPB.
- All courses that fulfill either a general education requirement or a major requirement must receive at least a grade of "C."
- A grade point average of at least 2.0 in all courses applicable toward the B.S. degree

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch

- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch

- PHYS 2126 University Physics II Laboratory 1 sch

## Major Requirements

### Computer Use

Mathematics majors must demonstrate a basic use of computers through completion of a course such as one of the following:

- COSC 1335 Computers and Problem Solving 3 sch
- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch

### Division Requirements

In addition to General Education and Computer Use requirements, a Bachelor of Science in Mathematics requires:

1. An English course that is not used in the general education requirements at the 2000 level or higher
2. NTSC 4311
3. Minimum of eight courses (at least 24 semester hours) beyond the level of Calculus.

### Common Core of Courses

A B.S. in Mathematics requires a minimum of eight courses (at least 24 semester hours) beyond the level of Calculus.

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- MATH 2415 Calculus III 4 sch
- MATH 3301 Introduction to Probability I 3 sch
- MATH 3305 Mathematical Reasoning 3 sch
- MATH 3310 Linear Algebra 3 sch
- MATH 4315 Algebraic Structures 3 sch
- MATH 4360 Theory of Real Analysis 3 sch

### Math Electives (3 courses)

- The remaining three advanced courses required to complete the major are selected in consultation with the student's advisor. Each course must be beyond Calculus.
- The final program must contain at least 18 semester credit hours at the 3000 or 4000 level.
- The choices should address the student's educational objectives and may, with prior approval of the faculty, include appropriate quantitative courses in operations research, econometrics, and computer science.
- No more than 45 hours of mathematics may be applied toward the 120 semester hour minimum required for a degree.

### Minor Requirement

Mathematics majors at U. T. Permian Basin are required to complete a minor of at least 18 semester hours, 9 of which must be of junior or senior level. The choice of the minor is up to the student, but it is recommended that the choice also be made to facilitate the student's educational objectives.

## Teacher Certification Considerations

### Mathematics Majors

Mathematics majors seeking certification at either the 4-8 or 7-12 level must take MATH 3350 Topics in Geometry. All certification students are strongly encouraged to elect MATH 4325 Number Theory.

## UTeach Teacher Education (12 sch + 6 sch Clinical Teaching)

### UTeach Teacher Education Core (9 sch)

- EDUC 2305 Preparing for Inquiry Based Math and Science Teaching 3 sch   **OR**
- EDUC 2101 Introduction to Math and Science Teaching 1 sch   **AND**
- EDUC 2202 Lesson Design in Math and Science Teaching 2 sch
  
- EDUC 4341 Knowing and Learning 3 sch
- EDUC 4342 Classroom Interactions sch

### Content Area Methods (3 sch)

- EDUC 4343 Multiple Teaching Practices in Math and Science Teaching 3 sch

### Clinical Teaching (6 sch)

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch

## TEExES Requirements

Candidates for TEExES tests in Mathematics must have completed the courses listed for each area below or equivalent courses in their teaching fields.

**Mathematics 7-12:** MATH 2413, MATH 2414, MATH 2415, MATH 3301, MATH 3305, MATH 3310, MATH 3350, and MATH 4315

**Mathematics 4-8:** MATH 2350, MATH 2412, MATH 2413, MATH 2414, MATH 3301, MATH 3305, and MATH 3350

### Electives (17-18 sch)

Enough hours to meet the 120 hours required for the degree and the 48 upper level hours. Electives may be replaced by teacher certification requirements.

# Mechanical Engineering, BS

The mechanical engineer may design a component, a machine, a system or a process. Mechanical engineers analyze their design using the principles of physics to insure the product functions safely, efficiently, reliably, and can be manufactured at a competitive cost. Mechanical engineers work in automotive, aerospace, chemical, computer, communication, paper, and power generation industries. Mechanical engineers are found in virtually any manufacturing industry.

The minimum total credits required for a BS degree in Mechanical Engineering is **126**.

## Program Educational Objectives

The educational objectives of the Mechanical Engineering program are to provide an educational experience that enables graduates to:

1. Obtain professional-level employment in the mechanical engineering field
2. Obtain licensure as a professional engineer
3. Practice mechanical engineering in a wide variety of private industries and governmental agencies

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- CHEM 1311 General Chemistry I 3 sch

- PHYS 2325 University Physics I 3 sch

### U.S. History (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Political Science (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Other Options (2 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch

### Required Courses

#### Lower Level Core (23 sch)

- MATH 2414 Calculus II 4 sch

- MATH 2415 Calculus III 4 sch
- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- ENGR 1204 Engineering Graphics 2 sch
- ENGR 2301 Engineering Mechanics: Statics 3 sch
- ENGR 2302 Engineering Mechanics: Dynamics 3 sch
- ENGR 2305 Fundamentals of Circuit Analysis 3 sch

### Basic Engineering Core (27 sch)

- MATH 3301 Introduction to Probability I 3 sch
- MATH 3310 Linear Algebra 3 sch
- MATH 3320 Differential Equations 3 sch
- ENGR 3303 Introduction to Materials Science 3 sch
- ENGR 3326 Engineering Economics 3 sch
- ENGR 3332 Mechanics of Materials 3 sch
- ENGR 3354 Introduction to Fluid Mechanics 3 sch
- ENGR 3375 Introduction to Thermodynamics 3 sch
- ENGR 3390 Engineering Programming 3 sch

### Major Requirements (24 sch)

- MENG 3206 Mechanical Engineering Laboratory I 2 sch
- MENG 3324 Manufacturing Processes 3 sch
- MENG 3348 Computer-Aided Mechanical Engineering Design 3 sch
- MENG 3351 Heat Transfer 3 sch
- MENG 3356 Fluid Mechanics II 3 sch
- MENG 3364 Mechanical Design I 3 sch
- MENG 3376 Thermodynamics II 3 sch
- MENG 4205 Thermo-Fluid and Mechanical Systems Laboratory 2 sch
- MENG 4206 Mechanical Engineering Laboratory II 2 sch

### Senior Design (4 sch)

- MENG 4478 Senior Design 4 sch

### Technical Electives

### Upper Level (6 sch)

Any 4000 level AERO, MENG or NENG course.

### Accelerated Master's Pathway (AMP)

This program has an Accelerated Master's Pathway (AMP) option. AMP allows for highly qualified students in the UTPB undergraduate program noted above to be eligible for admissions to a master's level program. Students who

successfully complete the AMP will be granted automatic admissions into the corresponding UTPB graduate program. For more information about the AMP program please contact the office of Graduate Studies or the AMP Coordinator for this major.



# Mechanical Engineering, BS - Nuclear Track

The nuclear engineering track under the mechanical engineering program is designed to combine broad engineering disciplines with knowledge of engineering principles specific to the nuclear industry. A degree in mechanical engineering with the nuclear engineering track should prepare graduates for work at power plants, fuel generation facilities, government regulatory agencies, and the design and manufacture of components and systems associated with handling nuclear materials. The program is further intended to adequately prepare students for graduate work in nuclear engineering.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- CHEM 1311 General Chemistry I 3 sch
- PHYS 2325 University Physics I 3 sch

### U.S. History (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Political Science (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Other Options (2 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch

## Required Courses

### Lower Level Core (23 sch)

- MATH 2414 Calculus II 4 sch
- MATH 2415 Calculus III 4 sch
- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- ENGR 1204 Engineering Graphics 2 sch
- ENGR 2301 Engineering Mechanics: Statics 3 sch
- ENGR 2302 Engineering Mechanics: Dynamics 3 sch
- ENGR 2305 Fundamentals of Circuit Analysis 3 sch

### Basic Engineering Core (24 sch)

- MATH 3301 Introduction to Probability I 3 sch
- PHYS 3310 Modern Physics 3 sch
- MATH 3320 Differential Equations 3 sch
- ENGR 3303 Introduction to Materials Science 3 sch
- ENGR 3332 Mechanics of Materials 3 sch
- ENGR 3354 Introduction to Fluid Mechanics 3 sch
- ENGR 3375 Introduction to Thermodynamics 3 sch
- ENGR 3390 Engineering Programming 3 sch

### Major Requirements (33 sch)

- MENG 3206 Mechanical Engineering Laboratory I 2 sch
- MENG 3348 Computer-Aided Mechanical Engineering Design 3 sch
- MENG 3351 Heat Transfer 3 sch
- MENG 3356 Fluid Mechanics II 3 sch
- MENG 3364 Mechanical Design I 3 sch
- MENG 3376 Thermodynamics II 3 sch
- MENG 4205 Thermo-Fluid and Mechanical Systems Laboratory 2 sch
- NENG 3301 Introduction to Nuclear Power 3 sch
- NENG 4211 Nuclear Engineering Laboratory 2 sch
- NENG 4311 Radioactive Materials Processing and Waste Management 3 sch
- NENG 4321 Nuclear Reactor Engineering 3 sch
- NENG 4331 Radiation and Radiation Protection 3 sch

### Senior Design (4 sch)

- MENG 4478 Senior Design 4 sch

# Nursing, BSN

## Bachelor of Science Degree in Nursing (BSN)

- **Application Deadline:** March 1 for Fall admission; September 15 for Spring admission
- **Application Available:** All year round
- **Length of Program:** 4 years (2 years general education courses, 2 years nursing courses)
- **Degree Awarded:** Bachelor of Science in Nursing

The University of Texas of the Permian Basin provides a generic pre-licensure Bachelor of Science degree in Nursing (BSN). The degree is science based, patient centered, and caring driven. The curriculum consists of four years. In the first two years of study the students take science courses with other pre-health professionals in pre-med, pre-dentistry, pre-veterinary, and kinesiology sciences. The course of study also includes courses in the social sciences that help students understand human behavior and to gain insight into the human spirit.

The nursing courses begin the second two years of the curriculum. The nursing curriculum is both theoretical and practical. Students are prepared to problem-solve based on evidence and research while including the patient as the main source of information. Strong clinical experiences are provided in the community and regional healthcare facilities and in the use of technology in the UT Permian Basin state of the art Nursing Simulation Center. The BSN program prepares graduates to work in a wide variety of clinical settings and provides the necessary foundation for masters and doctoral degrees in nursing.

The professional faculty is committed to preparing graduates that are caring, scholarly and imaginative to coordinate and provide care in a variety of complex healthcare settings. Graduates of the BSN program will be prepared to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

## Required Courses

The following courses must be completed prior to admission to Nursing Program.

### General Education Requirements (42 sch)

#### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

#### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

#### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch

- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

Students must take Biology lab with the class. Lab credit is given in the Component Area.

- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- PSYC 1301 Introduction to Psychology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch

## Pre-Nursing Major (24 sch)

The BSN degree requires a minimum of 120 sch with at least 48 upper level courses and DOES NOT REQUIRE a minor. The program consists of (1) Pre-nursing major; and (2) the Nursing major.

- CHEM 1311 General Chemistry I 3 sch
- BIOL 2121 Introductory Microbiology Laboratory 1 sch
- BIOL 2320 Introductory Microbiology 3 sch
- BIOL 2303 Introductory Nutrition 3 sch
- BIOL 3151 Human Anatomy Laboratory 1 sch
- BIOL 3350 Human Anatomy 3 sch
- BIOL 3153 Human Physiology Laboratory 1 sch
- BIOL 3352 Human Physiology 3 sch
- PSYC 3301 Introductory Statistics 3 sch
- PSYC 3344 Life-Span Psychology 3 sch

## Nursing Major (54 sch)

### Junior First Semester Fall (15 sch)

- NURS 3164 Dosage Calculations and Medical Terminology for Healthcare Professionals 1 sch
- NURS 3362 Theoretical and Evidenced Based Concepts of Professional Nursing Practice 3 sch
- NURS 3366 Clinical Pharmacology 3 sch
- NURS 3460 Evidenced Based Skills Assessment and Health Promotion 4 sch
- NURS 3461 Concepts and Evidence Based Skills for Professional Clinical Practice 4 sch

### Junior Second Semester Spring (15 sch)

- NURS 3240 Mental Health Nursing 2 sch
- NURS 3241 Mental Health Nursing Clinical 2 sch
- NURS 3302 Transcultural Nursing 3 sch
- NURS 3370 Medical Surgical Nursing 3 sch
- NURS 3371 Medical Surgical Nursing Clinical 3 sch
- NURS 4250 Nursing Research and Quality Improvement Science 2 sch

### Senior First Semester Fall (12 sch)

- NURS 4280 Women's Health and Obstetrical Nursing 2 sch
- NURS 4282 Geriatric Health Nursing 2 sch
- NURS 4284 Pediatric Health Nursing 2 sch

- NURS 4286 Men's Health Nursing 2 sch
- NURS 4481 Family Health Clinical 4 sch

### Senior Second Semester Spring (12 sch)

- NURS 4120 Nursing Capstone 1 sch
- NURS 4195 Integrated Leadership Clinical 1 sch
- NURS 4290 Population Public Health 2 sch
- NURS 4291 Population Public Health Clinical 2 sch
- NURS 4292 Advanced Medical Surgical Nursing 2 sch
- NURS 4293 Transition to Practice Clinical 2 sch
- NURS 4294 Leadership: Interprofessional Collaboration 2 sch

# Nursing, RN to BSN

## Admission Requirements for The RN-BSN Online Program

1. Must hold a current RN license to practice professional nursing in Texas or other state recognized by the NCLEX-RN Council of Nursing.
  2. Must be a graduate of a professional nursing program approved by the Texas State Board of Nursing, or appropriate State Board of Nursing.
  3. Must be a graduate of a nationally accredited professional nursing program.
  4. Must obtain successful admission to the University of Texas Permian Basin. At the time of application to the university, students must apply to the RN-BSN nursing degree track.
  5. After admission to UT Permian Basin, the student must contact the Nursing Admission Officer for completion of the nursing degree plan.
- It is the goal of the University for the graduates to provide evidence-based nursing care congruent with the 2010 Institute of Medicine (IOM) Report on the Future of Nursing, which recommended that nurses should receive higher education and training, be full partners with physicians and other healthcare professionals in redesigning health care, and be engaged in life-long learning to provide high quality safe care for a diverse population.
  - The program is built on a person-centered framework where the patient is the most important person of the healthcare team. The Overriding Pillars of the framework are Caring, Scholarship, and Imagination.

### Required Coursework

The RN-BSN nursing degree plan consists of a total of 120 semester credit hours: 44 credits devoted to the general education and pre-nursing courses; 38 advanced placement credits awarded for previous Nursing education; and 38 credits devoted to the courses in the RN-BSN nursing major.

- All courses in the general education, pre-nursing, and nursing major sections must be completed with a C or better.
- All required science courses must be "For Science Majors."
- All general education and nursing major pre-requisite courses may be transferred from another college or university.
- Completion of all 120-semester credit hours of the Bachelor of Science in Nursing degree is required to be eligible to graduate.
- At least 48 sch must be taken at the upper level.
- At least 30 sch must be completed at UTPB.
- A GPA of 2.25 or higher in all classes counting toward the degree.

## General Education Requirements (33 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (6 sch)

- HIST 1301 History of the United States to 1877 3 sch



- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- PSYC 1301 Introduction to Psychology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Life and Physical Science and Component Option (9 sch)

Credit for Biology, Biology Lab and Component Area Option will be awarded in the block of classes transferred in with the RN certification.

## Pre-Nursing Major Requirements (11 sch)

- BIOL 3151 Human Anatomy Laboratory 1 sch
- BIOL 3350 Human Anatomy 3 sch
- BIOL 3153 Human Physiology Laboratory 1 sch
- BIOL 3352 Human Physiology 3 sch
- PSYC 3344 Life-Span Psychology 3 sch

## RN to BSN Nursing Major Track Required Courses (38 sch)

RN-BSN Nursing Major Track required courses will be delivered totally online except for required clinical practicums held in the student's local community, which will be arranged according to written agreements between the affiliating agency and UT Permian Basin.

- NURS 4290 Population Public Health 2 sch
- NURS 4291 Population Public Health Clinical 2 sch
- NURS 4310 Social Determinants of Health 3 sch
- NURS 4340 Strategy and Analysis of Organizational Process 3 sch
- NURS 4341 Healthcare Leadership and Policy 3 sch
- NURS 4342 Quality Improvement and Healthcare Systems 3 sch
- NURS 4344 Informatics and Innovation 3 sch
- NURS 4350 Health Science Research Methods 3 sch
- NURS 4420 Health Assessment For The Professional Nurse 4 sch
- NURS 4610 Transformation to Nursing Leadership and Management 6 sch
- NURS 4611 Leadership Immersion and Capstone 6 sch

## RN-BSN Transfer Credit (38 sch)

Credit for previous nursing course work and practice knowledge will be granted upon successful completion of the final course of the RN to BSN program.

# Petroleum Engineering, BS

## Degree Requirements

The minimum total credits required for a BS degree in Industrial Technology is **126**.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- CHEM 1311 General Chemistry I 3 sch
- PHYS 2325 University Physics I 3 sch

### U.S. History (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Political Science (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch

- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Other Options (2 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch

### Non-Petroleum Engineering Required Courses (32 sch)

- ENGR 2403 Engineering Mechanics: Statics and Dynamics 4 sch
- ENGR 3332 Mechanics of Materials 3 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 3112 Sedimentary Rocks for Engineers Laboratory 1 sch
- GEOL 3212 Sedimentary Rocks for Engineers 2 sch
- MATH 2414 Calculus II 4 sch
- MATH 2415 Calculus III 4 sch
- MATH 3301 Introduction to Probability I 3 sch
- MATH 3320 Differential Equations 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- PHYS 2326 University Physics II 3 sch

### Petroleum Engineering Required Courses (46 sch)

- PENG 2101 Petroleum Fundamentals 1 sch
- PENG 3101 Drilling fluids lab 1 sch
- PENG 3104 Reservoir Engineering I Lab 1 sch
- PENG 3301 Drilling Engineering 3 sch
- PENG 3302 Reservoir Rock and Fluids Properties 3 sch
- PENG 3304 Reservoir Engineering I 3 sch
- PENG 3305 Well Design 3 sch
- PENG 3307 Formation Evaluation 3 sch
- PENG 3326 Petroleum Resources Economics and Valuation 3 sch
- PENG 3354 Petroleum Related Fluid Mechanics 3 sch
- PENG 3375 Petroleum Fluids and Thermodynamics 3 sch
- PENG 4301 Production Engineering 3 sch
- PENG 4302 Well Testing 3 sch
- PENG 4303 Reservoir Description 3 sch
- PENG 4305 Reservoir Engineering II 3 sch
- PENG 4309 Petroleum Data Analytics 3 sch
- PENG 4410 Senior Design 4 sch

## Elective Courses ( 6 sch)

Choose two

- PENG 4304 Natural Gas Reservoir Engineering 3 sch
- PENG 4306 Numerical Reservoir Simulation 3 sch
- PENG 4307 Advanced Drilling Engineering 3 sch
- PENG 4308 Introduction to Unconventional Resources 3 sch

# Political Science, BA

## Degree Requirements

The minimum total credits required for a B.A. in Political Science is 120.

1. Read the U. T. Permian Basin catalog and be familiar with the University's requirements for the BA degree. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BA degree.
2. Complete at least 120 semester credit hours for the BA degree.
3. At least 48 credits must be at the junior or senior level. At least 30 of these must be completed at U. T. Permian Basin.
4. Obtain at least a "C" grade in all Political Science courses. Maintain at least a grade point average of 2.0 in all courses applicable toward the BA degree.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch

- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Computer Use

All Political Science majors must demonstrate a basic use of computing through the completion of PLSC 3301 and PLSC 3302.

## Major Requirements (36 sch)

A major in Political Science requires 36 sch in Political Science including 12 sch of required courses, and at least 24 sch of additional upper-level PLSC courses.

## Required Courses

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- PLSC 3301 Research Methods for Political Science 3 sch
- PLSC 3302 Statistics for Political Science 3 sch

## Upper-Level Courses

- PLSC 3321 Comparative Politics 3 sch
- PLSC 3330 Judicial Politics 3 sch
- PLSC 4323 Japanese Politics 3 sch
- PLSC 4325 Latin American Politics 3 sch
- PLSC 4327 International Relations 3 sch
- PLSC 4335 Constitutional Law: Governmental Powers 3 sch
- PLSC 4336 Constitutional Law: Civil Liberties 3 sch
- PLSC 4341 Environmental Policy 3 sch
- PLSC 4345 Public Policy 3 sch
- PLSC 4351 Political Theory 3 sch
- PLSC 4353 Congressional Politics 3 sch
- PLSC 4354 Presidential Politics 3 sch
- PLSC 4355 Elections and Voting Behavior 3 sch
- PLSC 4357 American West 3 sch
- PLSC 4389 Selected Topics 3 sch



- PLSC 4391 Contract Study 3 sch

## Minor

Most minors require 18 sch including 12 sch in upper-level courses.

## TExES Requirements

Candidates for TExES tests in Social Studies must have completed the courses listed for each area below, or the equivalent courses from another college or university.

### Social Studies 4-8

- ECON 2301 Principles of Macroeconomics 3 sch
- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch
- HIST 3350 Texas 3 sch
- HIST (two upper level US history courses and one non-US course)
- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
  
- PLSC 4335 Constitutional Law: Governmental Powers 3 sch or
- PLSC 4336 Constitutional Law: Civil Liberties 3 sch

### Social Studies 7-12

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch
- HIST 3350 Texas 3 sch
- two 2000-level non-US history courses
- two upper-level non-US history courses
- two 20th-Century US history courses
- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
  
- PLSC 4335 Constitutional Law: Governmental Powers 3 sch or
- PLSC 4336 Constitutional Law: Civil Liberties 3 sch
  
- PLSC 3321 Comparative Politics 3 sch or

# Psychology, BA

Psychology is the science of behavior and mental processes. Behavior is anything an organism does that we can observe and record; examples include smiling, talking, yelling, and marking a questionnaire. Mental processes are internal subjective experiences we infer from behaviors, such as thoughts, feelings, and beliefs.

The mission of the undergraduate program in psychology is to provide quality educational experiences in the science of psychology, by providing all students with a comprehensive and challenging course of study in the diverse areas of psychology. The program will also work to provide students with the skills, knowledge, and experiences necessary to recognize psychological principles in the world in which we live, and apply psychological concepts to solve problems, make recommendations, and demonstrate a critical analysis of social scientific findings. Finally, students will demonstrate competency in the areas necessary for the generation of psychological knowledge, including conceptualization, literature review methods, research methods, data analysis, and the ability clearly communicate in writing.

Psychology is an extremely broad discipline and provides students the opportunity to prepare for a wide variety of careers or graduate school. For example, a major in Psychology can provide a liberal arts education with a broadened understanding of psychological functioning as it applies to the study of the simplest organisms to the most complex of human behavior. The major in Psychology is also useful for students preparing for advanced study in business administration, education, law, medicine, neuroscience, and social work. In addition, the major in Psychology is recommended for students planning careers in organizational settings (in both the public or private domain) focusing on personnel, information systems, or pure and applied research; or careers in community settings focusing on the juvenile justice system, adult probation and parole, recreation, and educational or clinical services to children, adolescents, the aged or people with physical or mental disabilities.

Students who complete the psychology major often desire to enter professional careers in psychology which require advanced study beyond the bachelor's level, such as clinical psychology, counseling psychology, industrial psychology, school psychology, research, and college teaching.

Psychology majors are encouraged to join the Psychology Club and Psi Chi, the U. T. Permian Basin Chapter of the National Honor Society in Psychology. Membership information is available from the faculty advisors.

## Degree Requirements

The minimum total credits required for a B. A. in psychology is **120**.

1. Read the UTPB catalog and understand all requirements for the B. A. degree. It is the student's responsibility to be familiar with and fulfill all the requirements for the B. A. degree.
2. Complete at least 120 semester credit hours for the B.A. degree.
3. At least 48 credits must be at the junior or senior level. At least 30 of these must be completed at U. T. Permian Basin.
4. Obtain at least a C average in all General Education and minor courses, and at least a C grade for all courses in Psychology counting towards the degree. Maintain at least a C average in all courses counting toward the B. A. degree.
5. As of 2007, students enrolled in a Texas public institution of higher education as a freshman are not permitted to drop more than six (6) courses during their entire undergraduate career, including all transfer work taken at a Texas institution. (TX Administrative Code 4.10).

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- BIOL 1306 General Biology I 3 sch   **Or**
- BIOL 1308 Biology for Non-Science Majors 3 sch
- BIOL 1307 General Biology II 3 sch
- CHEM 1311 General Chemistry I 3 sch
- GEOL 1301 Physical Geology 3 sch
- PHYS 2325 University Physics I 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch

## Computer Use

All Psychology majors must demonstrate a basic use of computing through the completion of statistics (PSYC 3301) and research methods (PSYC 3304)

## Major Requirements

**(A minimum of 37 credits in Psychology, (of which 30 sch must be upper level)**

### Required Core (13 sch - 5 courses)

- PSYC 1301 Introduction to Psychology 3 sch
- PSYC 3301 Introductory Statistics 3 sch \*Must be taken before PSYC 3304
- PSYC 3104 Experimental Psychology Lab 1 sch \*Must be taken concurrently with PSYC 3304
- PSYC 3304 Experimental Psychology 3 sch
- PSYC 4393 Senior Seminar 3 sch

## Required Courses Within Pairs of Courses (15 sch - 5 courses)

Each student is required to take at least one course from five of the following six pairs of courses. (PSYC 1301 is a prerequisite for all upper level PSYC courses):

- PSYC 3303 Principles of Learning 3 sch
- PSYC 4311 Cognitive Psychology 3 sch
  
- PSYC 3311 Social Psychology 3 sch and/or
- PSYC 4306 Industrial and Organizational Psychology 3 sch
  
- PSYC 3321 Abnormal Psychology 3 sch and/or
- PSYC 4351 Tests and Measurements 3 sch
  
- PSYC 3341 Child/Adolescent Psychology 3 sch or
- PSYC 3344 Life-Span Psychology 3 sch (students may take **ONLY ONE** of these two courses, **NOT BOTH**)
  
- PSYC 4302 History and Systems of Psychology 3 sch and/or
- PSYC 3322 Theories of Personality 3 sch
  
- PSYC 4304 Physiological Psychology 3 sch and/or
- PSYC 4312 Sensation and Perception 3 sch

## Elective Psychology Courses (9 sch - 3 courses)

If the student completes extra courses under B above, then the extra courses may be counted as an elective under C.

To plan your long-term schedule it will be beneficial to know that PSYC 1301, PSYC 3301, PSYC 3304 and PSYC 4393 are taught each Fall and Spring and some Summers. The members of most of the six required pairs under B are offered in such a fashion that one member of each pair is offered each Fall and Spring semester. If one is taught in the Fall, the other tends to be taught in the Spring. Students who plan to pursue graduate work in clinical or counseling psychology programs should select PSYC 3321, PSYC 4351, PSYC 3322, and PSYC 4304. Those interested in graduate work in experimental psychology at UTPB should select PSYC 3311, PSYC 3344, PSYC 4304, and PSYC 4307. Students who plan to pursue graduate work in any program are encouraged to conduct original research by enrolling in PSYC 4394.

- PSYC 3350 Positive Psychology 3 sch
- PSYC 3386 Human Sexuality 3 sch
- PSYC 4305 Drugs and Behavior 3 sch
- PSYC 4307 Health Psychology 3 sch
- PSYC 4308 Introduction to Counseling 3 sch
- PSYC 4320 Psychology of Sport 3 sch
- PSYC 4341 The Exceptional Child 3 sch
- PSYC 4345 Language Development In the Young Child 3 sch
- PSYC 4355 Psychology of Injury 3 sch
- PSYC 4375 Psychology and Law 3 sch
- PSYC 4381 Gender Studies 3 sch
- PSYC 4389 Selected Topics 3 sch

- PSYC 4394 Senior Honors Thesis 3 sch \*Student must earn an A or B in PSYC 3301/3104 to be eligible to enroll

## Other Electives (10-11 sch; to total 120 sch)

## Minor

A minimum of 18 credits is required for the minor. At least 12 hours must be at the junior/senior level. Psychology majors cannot minor in Child and Family Studies.

## Accelerated Master's Pathway (AMP)

This program has an Accelerated Master's Pathway (AMP) option. AMP allows for highly qualified students in the UTPB undergraduate program noted above to be eligible for admissions to a master's level program. Students who successfully complete the AMP will be granted automatic admissions into the corresponding UTPB graduate program. For more information about the AMP program please contact the office of Graduate Studies or the AMP Coordinator for this major.

# Social Work, BSW

## Accreditation

The Bachelor of Social Work Program at UTPB was first accredited by the Council on Social Work Education in June, 2007, and recently e-accredited with Full Accreditation in October 2019 for the standard CSWE 8-year cycle. All graduates of this program are eligible to sit for the LBSW licensing examination given by the Texas State Board of Examiners for Social Workers, and therefore eligible to be licensed as baccalaureate social workers in the state of Texas.

## Mission Statement

The primary mission of the Social work program is to train generalist social work professionals capable of providing culturally competent services within diverse, multicultural communities. Through all its activities, the program seeks to foster the fulfillment of human potential, promote social and economic justice, and contribute to the development of a social culture that respects the dignity and worth of all members of society.

The Bachelor of Social Work (BSW) program is designed to provide training to prepare graduates for entry level generalist social work practice or for admission to a graduate program in social work. Such training includes helping students develop and strengthen their sense of social responsibility, appreciation for diversity, understanding of the realities of discrimination and oppression, and knowledge of core social work values, ethics, and skills. Specifically, the BSW program seeks to achieve the following goals:

- Prepare students for agency based generalist social work practice with individuals, families, and communities
- Develop/strengthen the ability to apply critical thinking skills in a professional context
- Understand the effects of diverse backgrounds and membership in a population-at-risk on individuals, families, and communities, and the mechanisms of oppression and discrimination
- Understand that the professional roles and responsibilities of social workers include efforts to promote social and economic justice and alleviate unjust social, political, and economic conditions
- Demonstrate the ability to carry out professional practice congruent with the NASW Code of
- Ethics, including the ability to practice without discrimination based on group membership The Bachelor in Social Work program prepares graduates to work in a variety of public and private service settings, including hospitals, long-term care facilities, mental health clinics, family service agencies, Texas regulatory agencies, schools, police and sheriff's departments, and a wide variety of other state, community, non-profit and for-profit agencies.

## Degree Requirements

1. Read the UTPB catalog and be familiar with all requirements for the BSW degree. It is the student's responsibility to know/fulfill all requirements.
2. At least 48 sch must be taken at the upper level.
3. At least 30 of those hours must be completed at UTPB.
4. All Field Practicum courses must be completed at UTPB
5. An overall GPA of 2.5 or higher for all classes taken at UTPB.
6. A minimum average grade of "C" in all courses counting towards the BSW, including general education core and elective courses.
7. A minimum grade of "C" in all social work core courses.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in the Fall 2007 and thereafter are **not permitted to drop more than six courses** during their entire undergraduate career (Texas Administrative Code 4.10). This limit includes all transfer work.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- BIOL 1306 General Biology I 3 sch   **Or**
  - BIOL 1308 Biology for Non-Science Majors 3 sch
  
  - BIOL 1307 General Biology II 3 sch
  - ASTR 1301 Descriptive Astronomy 3 sch
  - CHEM 1311 General Chemistry I 3 sch
  - GEOL 1301 Physical Geology 3 sch
  - PHYS 2325 University Physics I 3 sch
- \*Students can only take BIOL 1307 if they have completed BIOL 1306.



## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch

## Computer Use

All Social Work students must demonstrate a basic use of computing through the completion of PSYC 3301 or SOCI 3317.

## Major Requirements

The BSW degree requires a minimum of 120 sch, with at least 48 upper level credits (3000/4000) and DOES NOT REQUIRE A MINOR.

## Social Work Core (54 sch)

- SOWK 2361 Introduction to Social Work 3 sch
- SOWK 2320 Social Welfare Policies and Issues 3 sch
  
- SOCI 3317 Introductory Statistics 3 sch or
- PSYC 3301 Introductory Statistics 3 sch
  
- PSYC 3344 Life-Span Psychology 3 sch
- SOWK 3320 Social Policy Analysis 3 sch
- SOWK 3324 Ethics & Values in Social Work 3 sch
- SOWK 3330 Introduction to Social Work Research 3 sch
- SOWK 3340 Human Behavior in the Social Environment 3 sch
- SOWK 3345 Child Abuse and Neglect 3 sch
- SOWK 3346 Economics of Social Issues 3 sch
- SOWK 3350 Social Justice 3 sch
- SOWK 3355 Social Work Practice with Individuals and Families 3 sch
- SOWK 3356 Social Work Practice with Groups 3 sch
- SOWK 4280 Field Practicum I Seminar 2 sch
- SOWK 4281 Field Practicum II Seminar 2 sch
- SOWK 4370 Social Work Practice with Organizations and Communities 3 sch
- SOWK 4480 Field Practicum I 4 sch
- SOWK 4481 Field Practicum II 4 sch

## Electives (24 sch)

Choose a minimum of 24 elective credits, or the number required to complete a total of 120 credit hours. The following are recommended but not inclusive of acceptable courses.

- COSC 1335 Computers and Problem Solving 3 sch
- KINE 1301 Concepts in Fitness and Health 3 sch
- KINE 3310 Motor Development 3 sch
- KINE 3330 Physical Activity for the Disabled 3 sch
- PLSC 3321 Comparative Politics 3 sch
- PLSC 4336 Constitutional Law: Civil Liberties 3 sch
- PLSC 4345 Public Policy 3 sch
- PLSC 4351 Political Theory 3 sch
- PSYC 3311 Social Psychology 3 sch
- PSYC 3321 Abnormal Psychology 3 sch
- PSYC 3322 Theories of Personality 3 sch
- PSYC 3350 Positive Psychology 3 sch
- PSYC 3386 Human Sexuality 3 sch
- PSYC 4307 Health Psychology 3 sch
- PSYC 4308 Introduction to Counseling 3 sch
- PSYC 4341 The Exceptional Child 3 sch
- SOCI 3347 Sociology of Work 3 sch
- SOCI 4320 Social Stratification 3 sch
- SOCI 4324 Political Sociology 3 sch

- SOCI 4352 Culture and Society 3 sch
- SOCI 4362 Sociology of Health and Illness 3 sch
- SOWK 4305 Drugs and Behavior 3 sch
- SOWK 4340 Death, Dying and Bereavement 3 sch

## Field Placement

The program requires 12 credit hours (480 clock hours) of field practice experience. This will be satisfied by two SOWK Field Practicum placements taken in the senior year, SOWK 4480/SOWK 4280 and SOWK 4481/SOWK 4281. Enrolled students will work in a social service delivery agency under the supervision of a qualified social worker. Social Work faculty will provide faculty liaison services to monitor the student's progress within the field placement. Students who have completed the general education core courses and the majority of the social work core courses should apply for acceptance into the field placement in the long semester prior to the semester they anticipate entering field. Application for field placement is made with the Director of Field Education.

# Sociology, BA

## Degree Requirements

The total minimum credits required for a B.A. in Sociology is **120**.

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BA degree.
2. Complete at least 120 sch for the BA degree.
3. At least 30 sch must be completed at U.T.P.B.
4. At least 24 of the last 30 must be taken at U.T.P.B.
5. At least 48 sch must be taken at the upper level.
6. Complete at least 18 sch in a minor of which 9-12 sch must be upper level. Refer to the catalog for specific requirements.
7. Obtain at least a C grade in ALL MAJOR courses. Maintain a GPA of 2.0 or C in all courses applicable toward the BA degree.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in the Fall 2007 and thereafter are not permitted to drop more than six courses during their entire undergraduate career (Texas Administrative Code 4.10). This limit includes all transfer work taken at a Texas institution of higher education.

**During the semester in which a student intends to graduate, a degree check & the appropriate forms must be submitted to the Academic Advisor. Check class schedule for dates.**

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

## Mathematics (3 or 4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Sciences (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- COMM 1115 Communication Lab 1 sch

## Computer Use

All Sociology majors must demonstrate a basic use of computing through the completion of COSC 1335, or other computer science course, which requires the actual use of computers, before taking the required course sequence SOCI 3317, SOCI 4403 and SOCI 4399.

## Major Requirements (30 sch)

Sociology majors are required & expected to complete 34 sch in Sociology of which 16 sch must include the following list of required 5 core courses. The remaining 6 courses must be selected from the list below that. Students must also complete COSC 1335

## Core Courses (16 sch)

\*SOCI 3317; SOCI 4303; SOCI 4399 MUST BE TAKEN IN SEQUENCE SHOWN.

- SOCI 1301 Introduction to Sociology 3 sch
- SOCI 3317 Introductory Statistics 3 sch \*
- SOCI 3327 Sociological Theory 3 sch
- SOCI 4403 Social Research Methods 4 sch \*
- SOCI 4399 Senior Research Seminar 3 sch \*

## Additional Courses (18 sch)

(6 courses) must be completed from the following list:

- SOCI 3347 Sociology of Work 3 sch
- SOCI 3351 Music in Society 3 sch
- SOCI 3389 Multi Listing Course 3 sch
- SOCI 3391 Contract Study 3 sch
- SOCI 4316 Energy and Society 3 sch

- SOCI 4317 Women's Studies 3 sch
- SOCI 4320 Social Stratification 3 sch
- SOCI 4324 Political Sociology 3 sch
- SOCI 4351 Contemporary Social Problems 3 sch
- SOCI 4352 Culture and Society 3 sch
- SOCI 4353 Art in Community 3 sch
- SOCI 4362 Sociology of Health and Illness 3 sch
- SOCI 4370 Family Dysfunction and Substance Abuse 3 sch
- SOCI 4389 Selected Topics 3 sch
- SOCI 4391 Contract Study 3 sch
- SOCI 4394 Independent Research in Sociology 3 sch

## Minor

In general, the minor is 18 sch with 12 sch at the upper level. Please talk to your advisor for specific minor requirements.

# Spanish, BA

## Degree Requirements

The minimum total credits required for a B. A. in Spanish is **120**.

1. Read the U. T. Permian Basin catalog and be familiar with the University's requirements for the B. A. degree, and the general education requirements for the B. A. degree. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the B. A. degree.
2. Complete at least 120 semester credit hours for the B. A. degree at least 30 of these must be completed at U. T. Permian Basin.
3. At least 48 credits must be at the junior and senior level.
4. Complete at least 18 credits in a minor area: At least 9 of these 18 credits must be at the junior or senior level.
5. Obtain at least a C grade in all major courses. Maintain a GPA of 2.0 or above in all courses applicable toward the B. A. Students seeking
6. No more than 47 hours of Spanish may be applied toward the 120 semester hour minimum required for a degree.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch



- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Computer Use

All majors must demonstrate a basic use of computing through completion of COSC 1335 or a similar computer science course which requires the actual use of computers.

## Major Requirements (30 sch)

### Language Requirements

Two semesters of intermediate Spanish language are prerequisite for the major and minor in Spanish: SPAN 2311 and SPAN 2312 (6sch), or SPAN 2313 and SPAN 2315 (6 sch), or Spanish CLEP with a minimum score of 66, or Native speakers of Spanish with coordinator's approval.

### **A major in Spanish consists of a minimum of 30 credits at the 3000 level and above as follows:**

Notes: Students with native proficiency in Spanish or a background in high school Spanish language study may take the CLEP in Spanish and, if scores justify it, receive three or six hours of sophomore-level Spanish language credit. SPAN 3311 will fulfill the requirements either for the Minor in Bilingual/English as a Second Language or as an elective (3 hrs) for the Major in Spanish, not for both.

SPAN 3301 Advanced Grammar and Syntax is a gateway course to upper-level study in Spanish. SPAN 3301 and SPAN 3302 are required courses for the Major and Minor in Spanish. SPAN 3301 or SPAN 3302 are prerequisites for 4000-level Spanish courses, whichever is taken first. Degree plans vary depending upon a student's goals and preparation prior to enrolling at UT Permian Basin. Students should consult with their faculty advisor for specific degree planning.

## 6 Credits of Advanced Spanish

- SPAN 3301 Advanced Grammar and Syntax 3 sch
- SPAN 3302 Advanced Composition and Conversation 3 sch

## 6 Credits of Junior Level Introductory Classes

- SPAN 3308 Introduction to Hispanic Literature and Literary Analysis 3 sch
- SPAN 3310 Introduction to Spanish Linguistics 3 sch

### 3 Credits of Hispanic Civilization

- SPAN 3321 Hispanic Civilization 3 sch

### 3 Credits of Peninsular Spanish Literature

- SPAN 4301 Spanish Literature I 3 sch
- SPAN 4302 Spanish Literature II 3 sch
- SPAN 4360 Spanish Golden Age Literature 3 sch
- SPAN 4361 Cervantes' Don Quixote 3 sch
- SPAN 4389 Selected Topics 3 sch

### 3 Credits of Latin American Literature

- SPAN 4311 Spanish-American Literature I 3 sch
- SPAN 4312 Spanish-American Literature II 3 sch
- SPAN 4351 Mexican Literature 3 sch
- SPAN 4352 Mexican-American Literature 3 sch
- SPAN 4389 Selected Topics 3 sch

### 3 Credits of Spanish Linguistics

- SPAN 4331 Spanish Phonetics and Phonemics 3 sch
- SPAN 3311 Practical Spanish and Translation 3 sch
- SPAN 3312 Spanglish 3 sch

### 6 Additional Upper Level Credits

- SPAN 3311 Practical Spanish and Translation 3 sch
- SPAN 3331 Advanced Conversation and Public Speaking 3 sch
- Or any other courses from Spanish Literature, Latin American Literature, and Linguistics.
- SPAN 3332 Spanish for Healthcare Professionals 3 sch

### Minor (18 Sch)

Students must complete a minor.

# Teacher Certifications

# Art, BA - Teacher Certification

The total semester credit hours required for a Bachelor of Arts - 4 years: Art (Teacher Certification) is 120 sch. Should students prefer a career in teaching within the public or private sector, it is appropriate to pursue Teacher Certification. This is a BA with a major in Art with the 45 sch in the major and 24 sch in the Education courses. Students interested in Teacher Certification will earn the BA in Art while completing the requirements for certification. It is necessary for the students to fulfill the education requirements to earn the BA degree in Art. Students must apply for admission to the Teacher Preparation program and obtain a certification advisor. Students pursuing teacher certification are required to enter one competition (local, area, state, national, or international) prior to graduation.

## Degree Requirements

1. It is the student's responsibility to read the catalog and be familiar with and fulfill all the requirements for the BA degree.
2. Complete at least **120** sch for the BA degree. At least **48** sch must be completed at the junior/senior level, and 24 of the last 30 must be taken at U.T.P.B.
3. At least **30** sch must be taken at UTPB.
4. **This degree does not require a minor.** Please refer to the catalog for specific requirements. **However, if teacher certification is not completed, the degree will require a the completion of a minor.**
5. Obtain at least a C grade in ALL MAJOR courses. Maintain a GPA of 2.0 or C average in all courses applicable toward the BA degree.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

## Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Bachelor of Arts in Art with All Level Teacher Certification (48 sch)

All Art majors are required to meet the visual arts core prior to taking upper-level courses. Students transferring to UT Permian Basin must also meet these requirements before taking junior and senior level Art courses.

### Freshman Visual Arts Core (15 sch)

All Art majors are required to meet the visual arts core prior to taking upper-level courses. Students transferring to UT Permian Basin must also meet these requirements before taking junior and senior level Art courses.

- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- ARTS 1311 Two-Dimensional Design 3 sch
- ARTS 1312 Three-Dimensional Design 3 sch
- ARTS 1316 Introduction to Drawing 3 sch

### Sophomore Courses (6 sch)

- ARTS 2310 Figure Composition I 3 sch
- ARTS 2348 Digital and Lens Imagery 3 sch

### Junior or Senior Level Art Requirements (24 sch)

- Sculpture (3 sch)
- Painting (3 sch)
- Printmaking (3 sch)
- Drawing (3 sch)
- Ceramics (3 sch)

- Photography (3 sch)

### One Art History course before the Twentieth Century (3 sch)

- ARTS 3301 Women Artists I 3 sch
- ARTS 3303 American Art I 3 sch
- ARTS 4304 History of Nineteenth Century Art 3 sch
- ARTS 4305 History of Renaissance Art 3 sch

### One Art History course related to the Twentieth and Twenty First Centuries (3 sch)

- ARTS 3302 Women Artists II 3 sch
- ARTS 3305 Modern Hispanic Art and Its Foundation 3 sch
- ARTS 4300 Concepts in Modern Art 3 sch
- ARTS 4301 Art since 1940 3 sch

### Exhibition Entry

Students pursuing the BA in Art are required to enter one art competition (local, area, state, national, or international) prior to graduation.

### Junior or Senior Level Electives to Complete 120 sch (9 sch)

### Education Certification Requirements (24 sch)

All Level ( EC-Grade 12) Certification - Students MUST contact a certification advisor for a certification plan and certification advising.

Approved major for this certification: Art.

- Phase I: PSYC 3341 or PSYC 3344 or equivalent; EDUC 3352 or equivalent; EDUC 4362 .
  - Apply for admission to program prior to registration for Phase II courses.
- Phase II: EDUC 4321 or EDUC 4322 ; EDUC 4326 .
  - Take the diagnostic tests for the TExES prior to registration for Phase III courses.
- Phase III: EDUC 4378
  - Take the content-area TExES and PPR TExES. Apply for admission to student teaching.
- Phase IV: EDUC 4681 (Student Teaching); EDUC 4099 (Seminar).
  - For completion of Seminar, pass the content-area TExES and PPR TExES if not passed previously.



# Biology, BS - Teacher Certification Plan for Grades 4-8

The Teaching Certification Plan for grades 4-8 are for students planning a career in middle school teaching with Biology as the academic major and seeking education certification. The description of degree requirements in this section apply to Biology majors seeking certification for 4-8. Consult the College of Education advisor for information regarding education courses and certification procedures.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life Science Requirement (6 sch)

- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 sch)

- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch

## Major Requirements (> 26 sch total, ≥ 18 sch upper level Core Biology courses)

Students seeking certification in 4-8 with Biology as the major must take at least 26 hours in Biology with at least 18 hours at the upper level. This "reduced" major is an option only to students who complete their certification requirements as part of the Bachelor's degree; students who do not complete their certification requirements as part of the Bachelor's degree must complete a full Biology major according to the Pre-professional or General Studies plans.

### Lower Level

- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1107 General Biology II Laboratory 1 sch

## Upper Level

- BIOL 4340 Genetics 3 sch
- BIOL 4342 Evolution 3 sch
- BIOL 3372 Principles of Ecology 3 sch

### Choose Among the Following as Electives to Complete the Major:

- BIOL 3310 Invertebrate Zoology 3 sch
- BIOL 3111 Invertebrate Zoology Laboratory 1 sch
- BIOL 3312 Vertebrate Zoology 3 sch
- BIOL 3113 Vertebrate Zoology Laboratory 1 sch
- BIOL 3230 Botany 2 sch
- BIOL 3231 Botany Laboratory 2 sch
- BIOL 3350 Human Anatomy 3 sch
- BIOL 3151 Human Anatomy Laboratory 1 sch
- BIOL 3352 Human Physiology 3 sch
- BIOL 3153 Human Physiology Laboratory 1 sch
- BIOL 4354 Animal Behavior 3 sch

## Support Requirements

### Lower Level

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- MATH 1314 College Algebra 3 sch
- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

### 4th Math Choose One of the Following

- MATH 2412 Precalculus 4 sch
- PSYC 3301 Introductory Statistics 3 sch

## Science and Mathematics Departmental Requirements

### Lower Level

Students seeking certification in 4-8 must demonstrate a basic use of computing through completion of COSC 1335.

- COSC 1335 Computers and Problem Solving 3 sch

## Upper Level

- NTSC 4311 History and Philosophy of Science 3 sch (Capstone)

## Education Courses

**Note: Consult certification advisor for further information**

## Upper Level

### UTeach Teacher Education Core (9 sch)

- EDUC 2305 Preparing for Inquiry Based Math and Science Teaching 3 sch **OR**
- EDUC 2101 Introduction to Math and Science Teaching 1 sch **AND**
- EDUC 2202 Lesson Design in Math and Science Teaching 2 sch
  
- EDUC 4341 Knowing and Learning 3 sch
- EDUC 4342 Classroom Interactions sch

### Education Core (9 sch)

- PSYC 3341 Child/Adolescent Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 3362 Bilingual/Multicultural Ed (3) sch

### Clinical Teaching (6 sch)

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch

## Minor ( $\geq 18$ sch total, $\geq 12$ sch upper level)

(refer to Discipline specifications)

## TEXES Requirements

Candidates for TEXES tests in 4-8 Science must have completed the courses listed for each area below (or equivalent courses).

**4-8 Science:** Complete the courses for BS in Biology with a minor in Chemistry. In addition complete PHYS 1301/PHYS 1101.

Candidates for TEXES tests in 4-8 Math/Science Composite must have completed the courses listed for each area below (or equivalent courses).

**4-8 Math and Science:** Complete the courses for the BS in Biology with a minor in Mathematics. In addition complete GEOL 1301/GEOL 1101 and PHYS 1301/PHYS 1101 or GEOL 1302/GEOL 1102.



# Biology, BS - Teacher Certification Plan for Grades 7-12

The Teacher Certification Plan for grades 7-12 is for students planning a career in secondary school teaching with Biology as the academic major and seeking education certification. Students who choose Biology as their academic minor but who wish to receive certification in Biology should refer to the section on the Biology Minor.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Life Science Requirement (6 sch)

- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch

- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 sch)

- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch

### Major Requirements ( $\geq 30$ sch total, $\geq 22$ sch upper level)

Students seeking standard certification, grades 7-12 with Biology as the academic major must take at least 30 semester credit hours in Biology, at least 22 of which must be at the upper level. This "reduced" major is an option only to students who complete their certification requirements as part of the Bachelor's degree; students who do not complete their certification requirements as part of the Bachelor's degree must complete a full Biology major according to the Pre-professional or General Studies plans.

#### Lower Level

- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1107 General Biology II Laboratory 1 sch

#### Upper Level

- BIOL 3300 Microbiology 3 sch
- BIOL 3101 Microbiology Laboratory 1 sch or
- BIOL 3324 Cell Biology 3 sch
- BIOL 3125 Cell Biology Laboratory 1 sch
  
- BIOL 4340 Genetics 3 sch
- BIOL 4342 Evolution 3 sch
- BIOL 3372 Principles of Ecology 3 sch

Choose Among the Following as Electives to Complete the Major:

- BIOL 3310 Invertebrate Zoology 3 sch
- BIOL 3111 Invertebrate Zoology Laboratory 1 sch
- BIOL 3312 Vertebrate Zoology 3 sch
- BIOL 3113 Vertebrate Zoology Laboratory 1 sch
- BIOL 3230 Botany 2 sch
- BIOL 3231 Botany Laboratory 2 sch
- BIOL 3350 Human Anatomy 3 sch
- BIOL 3151 Human Anatomy Laboratory 1 sch
- BIOL 3352 Human Physiology 3 sch
- BIOL 3153 Human Physiology Laboratory 1 sch
- BIOL 4354 Animal Behavior 3 sch

## Support Requirements

Two semesters of mathematics, specified as: Students seeking certification, grades 7-12, in Biology whose academic minor is in one of the other Science and Mathematics programs (Chemistry, Computer Science, Environmental Science, Geology/Earth Science, or Mathematics) are required to take Calculus I and II, MATH 2413 and MATH 2414, to meet their math requirements. Students seeking certification, grades 7-12, in Biology whose minor is in a program outside of the Department of Science and Mathematics may opt to take MATH 1332 or MATH 2412.

## Lower Level

### Computer Use

Students seeking certification in 7-12 must demonstrate a basic use of computing through completion of COSC 1335.

- COSC 1335 Computers and Problem Solving 3 sch

### Mathematics

If minor or 2nd teach field in Science and Math:

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch

If minor or 2nd teach field not in Science and Math:



- MATH 1314 College Algebra 3 sch
- MATH 2412 Precalculus 4 sch or
- PSYC 3301 Introductory Statistics 3 sch (Upper Level course)

## Upper Level

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- NTSC 4311 History and Philosophy of Science 3 sch (Capstone)

## Education Courses

**Note: Consult certification advisor for further information**

## Upper Level

### UTeach Teacher Education Core (9 sch)

- EDUC 2305 Preparing for Inquiry Based Math and Science Teaching 3 sch **OR**
- EDUC 2101 Introduction to Math and Science Teaching 1 sch **AND**
- EDUC 2202 Lesson Design in Math and Science Teaching 2 sch
- EDUC 4341 Knowing and Learning 3 sch
- EDUC 4342 Classroom Interactions sch

### Content Area Methods (3 sch)

- EDUC 4343 Multiple Teaching Practices in Math and Science Teaching 3 sch

### Clinical Teaching (6 sch)

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch

## Minor ( $\geq 18$ sch total, $\geq 12$ sch upper level)

(refer to Discipline specifications)

## TEXES Requirements

Candidates for TExES tests in 7-12 Life Sciences must have completed the courses listed for each area below (or equivalent courses).

**7-12 Life Sciences:** Complete the courses for the BS in Biology, secondary certification track.

Candidates for TExES tests in 7-12 Science must have completed the courses listed for each area below (or equivalent courses).

**Science 7-12:** Complete the courses for the BS in Biology with a minor in Chemistry, or the BS in Chemistry with a minor in Biology. In addition, complete GEOL 1301/GEOL 1101, PHYS 1301/PHYS 1101 or PHYS 2325/PHYS 2125, and either GEOL 1302/GEOL 1102 or PHYS 1302/PHYS 1102 or PHYS 2326/PHYS 2126.

# Chemistry, BS - Teacher Certification

## Degree Requirements

The total semester credit hours required for a B. S. in Chemistry is **120**.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (4 sch)

- MATH 2413 Calculus I 4 sch

### Physical Science Requirement (6 sch)

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch

- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch
- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2 sch)

- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch

### Common Science Requirements (24 sch)

#### Lower Level

- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch
- PHYS 1301 College Physics I 3 sch
- PHYS 1101 College Physics I Laboratory 1 sch or
- PHYS 2325 University Physics I 3 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 1302 College Physics II 3 sch
- PHYS 1102 College Physics II Laboratory 1 sch or
- PHYS 2326 University Physics II 3 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch

- BIOL 1307 General Biology II 3 sch
- BIOL 1107 General Biology II Laboratory 1 sch

## Required Chemistry Courses (38 sch total, $\geq$ 22 sch upper level)

### Lower Level

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch

### Upper Level

- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3312 Organic Chemistry II 3 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch
- CHEM 3324 Analytical Chemistry I 3 sch
- CHEM 4301 Physical Chemistry I 3 sch
- CHEM 4103 Physical Chemistry Lab I 1 sch
- CHEM 3695 Intro to Research 1-6 sch
- CHEM 4374 Inorganic Chemistry 3 sch
- CHEM 4175 Inorganic Chemistry Lab 1 sch

### Advanced Chemistry Electives (select $\geq$ 7 sch)

- CHEM 4340 Medicinal Chemistry 3 sch
- CHEM 4330 NMR Spectroscopy 3 sch and
- CHEM 4302 Physical Chemistry II 3 sch and
- CHEM 4104 Physical Chemistry Lab II 1 sch
- CHEM 4311 Nuclear Chemistry (3) sch

### Transfer or Other Hours Not Listed Above

Minimum of 1 lower level sch.

### UTeach Teacher Education (12 sch + 6 sch Clinical Teaching)

### UTeach Teacher Education Core (9 sch)

- EDUC 2305 Preparing for Inquiry Based Math and Science Teaching 3 sch **OR**

- EDUC 2101 Introduction to Math and Science Teaching 1 sch   **AND**
- EDUC 2202 Lesson Design in Math and Science Teaching 2 sch
- EDUC 4341 Knowing and Learning 3 sch
- EDUC 4342 Classroom Interactions sch

### Content Area Methods (3 sch)

- EDUC 4343 Multiple Teaching Practices in Math and Science Teaching 3 sch

### Clinical Teaching (6 sch)

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch

## TExES Requirements

Candidates for the TExES test in 7-12 Chemistry must have completed the courses for the B.S. in Chemistry. Candidates for TExES tests in 6-12 Physical Science or 7-12 Science must have completed the courses listed for each area below or equivalent courses.

### 6-12 Physical Sciences:

Complete the courses for the BS in Chemistry, including PHYS 2325/PHYS 2125 and PHYS 2326/PHYS 2126.

### 7-12 Science:

Complete the courses for the BS in Biology with a minor in Chemistry, or the BS in Chemistry with a minor in Biology. In addition complete GEOL 1301/GEOL 1101, PHYS 1301/PHYS 1101 or PHYS 2325/PHYS 2125, and either GEOL 1302/GEOL 1102 or PHYS 1302/PHYS 1102 or PHYS 2326/PHYS 2126.

# Education, BA (with certification)

## Education, BA - Elementary EC-6 Core

### Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

### General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch

- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch



- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### Language Arts and Reading (15 sch)

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch \*
- EDUC 4325 Reading in the Middle Grades 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*

### Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

### Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

## Early Childhood Education (6 sch)

- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4314 Language Development in the Young Child 3 sch **Or**
- EDUC 4329 First and Second Language Acquisition 3 sch

## Teaching and Learning (Pedagogy) (18 sch)

- EDUC 4312 ECE: Curriculum and Instruction 3 sch \*
- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch \*
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch \*
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch \*
- EDUC 4681 Clinical Teaching 6 sch \* **OR** (EDUC 4382 and EDUC 4383)
- EDUC 4099 Seminar: Student Teaching 0 sch \*

## Electives (14 sch)

Sufficient upper-level coursework to meet the graduation requirement of 48 upper-level credit hours.

# Education, BA - Elementary EC-6 with a Bilingual

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

## Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### Language Arts and Reading (18 sch)

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4315 Cognition and Biliteracy 3 sch \*
- EDUC 4324 Reading Development in Primary Grades 3 sch \*
- EDUC 4325 Reading in the Middle Grades 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*

### Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

### Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

### Early Childhood Education (6 sch)

- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4329 First and Second Language Acquisition 3 sch

## Teaching and Learning (Pedagogy) (21 sch)

- EDUC 4312 ECE: Curriculum and Instruction 3 sch \*
- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch \*
- EDUC 4363 Methods of Teaching in the Bilingual Classroom 3 sch \*
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch \*
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch \*
- EDUC 4681 Clinical Teaching 6 sch \* **OR** (EDUC 4382 and EDUC 4383)
- EDUC 4099 Seminar: Student Teaching 0 sch \*

## Electives (8 sch)

Sufficient upper-level coursework to meet the graduation requirement of 48 upper-level credit hours.

# Education, BA - Elementary EC-6 with ESL

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

## Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)



- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### Language Arts and Reading (18 sch)

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch \*
- EDUC 4325 Reading in the Middle Grades 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*
- EDUC 4336 Issues of Multilingualism 3 sch \*

### Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

### Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

### Early Childhood Education (6 sch)

- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4329 First and Second Language Acquisition 3 sch

## Teaching and Learning (Pedagogy) (18 sch)

- EDUC 4312 ECE: Curriculum and Instruction 3 sch \*
- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch \*
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch \*
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch \*
- EDUC 4681 Clinical Teaching 6 sch \* **OR** (EDUC 4382 and EDUC 4383)
- EDUC 4099 Seminar: Student Teaching 0 sch \*

## Electives (11 sch)

Sufficient upper-level coursework to meet the graduation requirement of 48 upper-level credit hours.

# Education, BA - Middle Grades 4-8 with a Bilingual Supplement

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch

- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Language Arts and Reading (18 sch)

- EDUC 3322 Literature in the Classroom 3 sch **Or**
- EDUC 4323 Adolescent Literature in the Classroom 3 sch
  
- EDUC 4315 Cognition and Biliteracy 3 sch \*
- EDUC 4325 Reading in the Middle Grades 3 sch \*
- EDUC 4326 Reading in the Content Areas 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*
- EDUC 4329 First and Second Language Acquisition 3 sch \*

## Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
  
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

## Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

## Teaching and Learning (Pedagogy) (21 sch)

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch \*
- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch \*
- EDUC 4363 Methods of Teaching in the Bilingual Classroom 3 sch \*
- EDUC 4374 Teaching Mathematics and Science: Grades 4-8 3 sch \*
- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch \*
  
- EDUC 4681 Clinical Teaching 6 sch \*   **OR** (EDUC 4382 and EDUC 4383)
- EDUC 4099 Seminar: Student Teaching 0 sch \*

## Electives (11 sch)

Sufficient upper-level coursework to meet the graduation requirement of 48 upper-level credit hours.

# Education, BA - Middle Grades 4-8 Core

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

## Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)



- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### Language Arts and Reading (12 sch)

- EDUC 3322 Literature in the Classroom 3 sch **Or**
- EDUC 4323 Adolescent Literature in the Classroom 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch \*
- EDUC 4326 Reading in the Content Areas 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*

### Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

### Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

### Teaching and Learning (Pedagogy) (15 sch)

- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch \*
- EDUC 4374 Teaching Mathematics and Science: Grades 4-8 3 sch \*
- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch \*
  
- EDUC 4681 Clinical Teaching 6 sch \*   **OR** (EDUC 4382 and EDUC 4383)
- EDUC 4099 Seminar: Student Teaching 0 sch \*

## Electives (23 sch)

Sufficient upper-level coursework to meet the graduation requirement of 48 upper-level credit hours.

# Education, BA - Middle Grades 4-8 with Special Education

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch

- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Language Arts and Reading (12 sch)

- EDUC 3322 Literature in the Classroom 3 sch **Or**
- EDUC 4323 Adolescent Literature in the Classroom 3 sch
  
- EDUC 4325 Reading in the Middle Grades 3 sch \*
- EDUC 4326 Reading in the Content Areas 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*

## Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
  
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

## Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

## Special Education (9 sch)

- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 4354 Teaching Students with High and Low Incident Disabilities 3 sch
- EDUC 4356 Behavior Management 3 sch

## Teaching and Learning (Pedagogy) (15 sch)

- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch \*
- EDUC 4374 Teaching Mathematics and Science: Grades 4-8 3 sch \*
- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch \*
- EDUC 4099 Seminar: Student Teaching 0 sch \*
- EDUC 4681 Clinical Teaching 6 sch \* **OR** (EDUC 4382 and EDUC 4383)

## Electives (14 sch)

Sufficient upper-level coursework to met the graduation requirement of 48 upper-level credit hours.

# Education, BA - Middle School 4-8 with ESL

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

## Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)



- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### Language Arts and Reading (18 sch)

- EDUC 3322 Literature in the Classroom 3 sch **Or**
- EDUC 4323 Adolescent Literature in the Classroom 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch \*
- EDUC 4326 Reading in the Content Areas 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*
- EDUC 4329 First and Second Language Acquisition 3 sch
- EDUC 4336 Issues of Multilingualism 3 sch

### Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

### Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

## Teaching and Learning (Pedagogy) (18 sch)

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch \*
- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch \*
- EDUC 4374 Teaching Mathematics and Science: Grades 4-8 3 sch \*
- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch \*
- EDUC 4681 Clinical Teaching 6 sch \* **OR** (EDUC 4382 and EDUC 4383)
- EDUC 4099 Seminar: Student Teaching 0 sch \*

## Electives (14 sch)

Sufficient upper-level coursework to meet the graduation requirement of 48 upper-level credit hours.

# Education, BA Early Childhood: PK-3

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

## Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### Language Arts and Reading (12 sch)

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*

### Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

### Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

### Early Childhood Education (15 sch)

- EDUC 3308 Introduction to Early Childhood Education 3 sch

- EDUC 3309 Family and School Interactions 3 sch
- EDUC 4310 Early Intervention 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4314 Language Development in the Young Child 3 sch **Or**
- EDUC 4329 First and Second Language Acquisition 3 sch

## Teaching and Learning (Pedagogy) (18 sch)

- EDUC 4312 ECE: Curriculum and Instruction 3 sch \*
- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch \*
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch \*
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch \*
- EDUC 4681 Clinical Teaching 6 sch \* **OR** (EDUC 4382 and EDUC 4383)
- EDUC 4099 Seminar: Student Teaching 0 sch \*

## Electives (8 sch)

Sufficient upper-level coursework to meet the graduation requirement of 48 upper-level credit hours.

# Education, BA Early Childhood: PK-3 with ESL

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

## Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

## Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

## Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

## Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

## Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)



- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

### Language Arts and Reading (15 sch)

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*
- EDUC 4336 Issues of Multilingualism 3 sch \*

### Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

### Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

### Early Childhood Education (15 sch)

- EDUC 3308 Introduction to Early Childhood Education 3 sch
- EDUC 3309 Family and School Interactions 3 sch
- EDUC 4310 Early Intervention 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4329 First and Second Language Acquisition 3 sch

## Teaching and Learning (Pedagogy) (18 sch)

- EDUC 4312 ECE: Curriculum and Instruction 3 sch \*
- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch \*
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch \*
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch \*
- EDUC 4681 Clinical Teaching 6 sch \* **OR** (EDUC 4382 and EDUC 4383)
- EDUC 4099 Seminar: Student Teaching 0 sch \*

## Electives (5 sch)

Sufficient upper-level coursework to meet the graduation requirement of 48 upper-level credit hours.

# Education, BA Early Childhood: PK-3 with Special Education

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch

- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Language Arts and Reading (12 sch)

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*

## Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

## Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

## Early Childhood Education (15 sch)

- EDUC 3308 Introduction to Early Childhood Education 3 sch
- EDUC 3309 Family and School Interactions 3 sch
- EDUC 4310 Early Intervention 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4314 Language Development in the Young Child 3 sch **Or**
- EDUC 4329 First and Second Language Acquisition 3 sch

### Special Education (9 sch)

- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 4354 Teaching Students with High and Low Incident Disabilities 3 sch
- EDUC 4356 Behavior Management 3 sch

### Teaching and Learning (Pedagogy) (18 sch)

- EDUC 4312 ECE: Curriculum and Instruction 3 sch \*
- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch \*
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch \*
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch \*
- EDUC 4681 Clinical Teaching 6 sch \* **OR** (EDUC 4382 and EDUC 4383)
- EDUC 4099 Seminar: Student Teaching 0 sch \*

# Education, BA - Elementary EC-6 with Special Education

## Degree Requirements

1. No minor is required for the Education BA.
2. It is the student's responsibility to read the U.T. Permian Basin catalog and be familiar with and fulfill all university requirements for the degree.
3. Complete at least 120 semester credit hours for the degree.
4. At least **30** of the 120 hours must be completed at UTPB.
5. At least **48** credit hours must be at the junior/senior level.
6. At least 24 of the last 30 hours must be completed at UTPB.
7. Earn at least a C grade in all major courses, and maintain a GPA of at least 2.50 in all courses applicable toward the degree. A student whose GPA is below 2.50 is ineligible for admission to the teacher certification program and may need to consider other degree options.
8. Students who enrolled in a Texas public institution of higher education as first-time freshman in Fall 2007 and thereafter are not permitted to drop more than six courses during their undergraduate career (Texas Administrative Code 4.10). This includes UTPB and transfer coursework.

## General Education Requirements (42 sch)

+Courses marked with this symbol are also included in the major and must be completed with grades of "C" or better.

\*Courses marked with an asterisk are restricted to students who have been accepted into the Teacher Certification Program.

## Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

## History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

## Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch

- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (6 sch)

- BIOL 1306 General Biology I 3 sch +
- BIOL 1307 General Biology II 3 sch +
- BIOL 1308 Biology for Non-Science Majors 3 sch +
- CHEM 1311 General Chemistry I 3 sch +
- CHEM 1312 General Chemistry II 3 sch +
- GEOL 1301 Physical Geology 3 sch +
- GEOL 1302 Historical Geology 3 sch +
- PHYS 2325 University Physics I 3 sch +
- PHYS 2326 University Physics II 3 sch +

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch



## Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

## Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Language Arts and Reading (15 sch)

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch \*
- EDUC 4325 Reading in the Middle Grades 3 sch \*
- EDUC 4327 Literacy Assessment and Intervention 3 sch \*

## Social Science/Social Studies (15 sch)

- Geography or World Civilization (3 sch)
- Texas History (2000-level or above) (3 sch)
- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Mathematics (6 sch)

- MATH 1350 Foundations of Elementary Mathematics I 3 sch
- MATH 2350 Foundations of Elementary Mathematics II 3 sch

## Life and Physical Science with Lab (4 sch)

Among the science courses in the core curriculum and this course, both life and physical sciences must be included.

## Early Childhood Education (6 sch)

- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4314 Language Development in the Young Child 3 sch **Or**
- EDUC 4329 First and Second Language Acquisition 3 sch

## Special Education (9 sch)

- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 4354 Teaching Students with High and Low Incident Disabilities 3 sch
- EDUC 4356 Behavior Management 3 sch

## Teaching and Learning (Pedagogy) (18 sch)

- EDUC 4312 ECE: Curriculum and Instruction 3 sch \*
- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch \*
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch \*
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch \*
- EDUC 4681 Clinical Teaching 6 sch \* **OR** (EDUC 4382 and EDUC 4383)
- EDUC 4099 Seminar: Student Teaching 0 sch \*

## Electives (5 sch)

Sufficient upper-level coursework to meet the graduation requirement of 48 upper-level credit hours.

# English, BA - English Education Certification Track

## Degree Requirements

It is the student's responsibility to read the university catalog and be familiar with degree requirements.

1. Complete at least **120** semester credit hours.
2. Complete at least 48 hours at the junior/senior level. At least 30 of these hours must be completed at UTPB.
3. Complete at least 18 hours in a minor. At least 9 of these must be at the junior/senior level. Students seeking a second teaching filed for secondary certification in English must complete all requirements for the major.
4. Earn at least a C grade in all English courses counting toward the minimum course requirements and maintain at least a GPA of 2.00 for all courses applicable toward the B.A. degree. Students seeking teacher certification must maintain a GPA of at least 2.75 in all English courses beyond Freshman Composition.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch

### Mathematics (3-4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch

- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Science (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- ARTS 1301 Art Appreciation 3 sch
- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- DRAM 1310 Introduction to Theatre Arts 3 sch
- MUSI 1301 Jazz, Pop & Rock 3 sch
- MUSI 1306 Music Appreciation 3 sch
- UNIV 1302 Honors Freshman Seminar II 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- COMM 1115 Communication Lab 1 sch
- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch

## Required Courses (30 sch)

A TOTAL OF THIRTY HOURS (30sch) of study is required for the English certification track; 6 sch may be at the sophomore (2000) level; 6 sch MUST be at the senior (4000) level. The freshman English courses ENGL 1301 and ENGL 1302 are not included in these hours.

- ENGL 3300 Theoretical Approaches to Literature 3 sch
- ENGL 4371 Rhetoric and Composition 3 sch

## One Upper Level Course in Each Category

One must be at the senior (4000) level.

- Poetry
- Fiction
- Drama

## Multicultural Literature (one required)

- ENGL 3306 American Multicultural Fiction 3 sch
- ENGL 3336 Global Literature 3 sch

## Literature and the Visual (one required)

- ENGL 3330 Film as Literature 3 sch
- ENGL 3332 Literature and Art 3 sch
- ENGL 3333 Literature & Mythology 3 sch

## Language/Rhetoric (one required)

- ENGL 3340 Advanced Composition 3 sch
- ENGL 3371 The English Language 3 sch
- ENGL 3372 English Grammar 3 sch
- ENGL 4340 Professional Writing 3 sch
- ENGL 4372 Semantics 3 sch

## British Literature (one required)

- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 3352 Eighteenth-Century Women Poets 3 sch
- ENGL 4321 Topics in British Poetry 3 sch
- ENGL 4332 The Nineteenth-Century British Novel 3 sch
- ENGL 4333 The Twentieth-Century British Novel 3 sch
- ENGL 4365 Shakespeare 3 sch

## American Literature (one required)

- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- ENGL 3306 American Multicultural Fiction 3 sch
- ENGL 3320 American Fiction 1860-1900 3 sch
- ENGL 3335 American Women Novelists 3 sch
- ENGL 4302 20th-Century American Poetry 3 sch
- ENGL 4305 American Drama 3 sch
- ENGL 4315 American Romantic Fiction 1800-1860 3 sch
- ENGL 4361 New York School Poets 3 sch

## Electives

- ENGL 3311 Drama: Comedy 3 sch
- ENGL 3325 The Medicine Show 3 sch
- ENGL 3341 Creative Writing 3 sch
- ENGL 3352 Eighteenth-Century Women Poets 3 sch
- ENGL 3362 Poetry: Forms and Themes 3 sch
- ENGL 3335 American Women Novelists 3 sch

## Minor (or Second Teaching Field) (18 sch)

At least 9 of these must be at the junior/senior level.

## Education Certification Requirements

### Phase I

Teacher Education Core- must complete with a 2.75 GPA or better and no grade lower than a C.

- PSYC 3341 Child/Adolescent Psychology 3 sch **Or**
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Phase II

- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
- EDUC 4323 Adolescent Literature in the Classroom 3 sch
- EDUC 4326 Reading in the Content Areas 3 sch

## Phase III

Content-Area Methods

- EDUC 4371 Teaching English Language Arts: Grades 7-12 3 sch

## Phase IV

Take/pass Content Area TExES (and PPR if eligible).

## Phase V

Clinical Teaching

- Apply for Admission to Student Teaching when taking your last methods course.
- Passing the English Language Arts TExES is required for admission.
- EDUC 4099 Seminar: Student Teaching 0 sch (Must pass PPR TExES to complete seminar)
- EDUC 4681 Clinical Teaching 6 sch

## Phase VI

Apply for Certification

## TExES Requirements

- English Language Arts & Reading 7-12: At least 24 semester hours at the sophomore level and above (with 6 hours at the 4000 level), including ENGL 3300, American Literature, British Literature, Fiction, Poetry, Drama, and Language/Rhetoric. Must also complete EDUC 4323, EDUC 4326, EDUC 4371
- English Language Arts & Reading 4-8: At least 24 semester hours at the sophomore level and above (with 6 hours at the 4000 level), including ENGL 3300, American Literature, British Literature, Fiction, Poetry, Drama, and Language/Rhetoric. Must also complete EDUC 4323, EDUC 4326, EDUC 4375
- English Language Arts, Reading, & Social Studies 4-8: At least 24 semester hours at the sophomore level and above (with 6 hours at the 4000 level), including ENGL 3300, American Literature, British Literature, Fiction, Poetry, Drama, and Language/Rhetoric, ECON 2301, HIST 1301, HIST 1302, HIST 3350, two upper level US history courses and one on US history course, PLSC 2305, PLSC 2306, EDUC 3322, EDUC 4323, EDUC 4326, EDUC 4375.

Students with questions about TExES requirements should consult their Education advisor.

# Music, BM - EC-12 Music Teacher Certification

## Degree Requirements

The total number of credit hours required for the Bachelor of Music degree is 127.

## General Education Requirements (42 sch)

### Communication (6 sch)

- ENGL 1301 Composition I 3 sch
- ENGL 1302 Composition II 3 sch

### History (U.S. History) (6 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch

### Language, Philosophy, and Culture (3 sch)

- COMM 1301 Introduction to the Study of Communication 3 sch
- ENGL 2322 British Literature to 1800 3 sch
- ENGL 2323 British Literature Since 1800 3 sch
- ENGL 2327 American Literature to 1865 3 sch
- ENGL 2328 American Literature Since 1865 3 sch
- PHIL 2300 Introduction to Philosophy 3 sch
- UNIV 1301 Honors Freshman Seminar I 3 sch
- SPAN 2311 Intermediate Spanish I 3 sch
- SPAN 2312 Intermediate Spanish II 3 sch
- SPAN 2320 Introduction to Latin American Studies 3 sch

### Mathematics (3 or 4 sch)

- MATH 1314 College Algebra 3 sch
- MATH 1324 Applications of Discrete Mathematics 3 sch
- MATH 1332 Contemporary Mathematics I 3 sch
- MATH 1342 Elementary Statistics 3 sch
- MATH 2412 Precalculus 4 sch
- MATH 2413 Calculus I 4 sch

### Life and Physical Sciences (6 sch)

- ASTR 1301 Descriptive Astronomy 3 sch
- BIOL 1306 General Biology I 3 sch



- BIOL 1307 General Biology II 3 sch
- BIOL 1308 Biology for Non-Science Majors 3 sch
- CHEM 1311 General Chemistry I 3 sch
- CHEM 1312 General Chemistry II 3 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1302 Historical Geology 3 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch

### Political Science (U.S., State of Texas and Local Government) (6 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- UNIV 2301 Honors Sophomore Seminar I 3 sch

### Creative Arts (3 sch)

- MUSI 1306 Music Appreciation 3 sch

### Social and Behavioral Science (3 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- LEAD 1301 Introduction to Leadership Studies 3 sch
- PSYC 1301 Introduction to Psychology 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

### Component Area (3 sch)

- COMM 1315 Introduction to Public Speaking 3 sch

### Component Area Option (2-3 sch)

- ASTR 1101 Descriptive Astronomy Lab 1 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 1108 Biology for Non Science Majors Laboratory 1 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- COMM 1115 Communication Lab 1 sch

### Music Core Requirements (40 sch)

- MUAP 1187 Applied Instruction I 1 sch
  - MUAP 1188 Applied Instruction II 1 sch
  - MUAP 2187 Applied Instruction III 1 sch
  - MUAP 2188 Applied Instruction IV 1 sch
  - MUAP 3100 Junior Recital 1 sch
  - MUAP 3187 Applied Instruction V 1 sch
  - MUAP 3188 Applied Instruction VI 1 sch
  - MUAP 4100 Senior Recital 1 sch
  - MUAP 4187 Applied Instruction VII 1 sch
  - MUAP 4188 Applied Instruction VIII 1 sch
- 
- MUSI 1212 Music Theory I 2 sch
  - MUSI 1213 Music Theory II 3 sch
  - MUSI 2212 Music Theory III 2 sch
  - MUSI 2213 Music Theory IV 2 sch
- 
- MUSI 1116 Sight Singing and Ear Training I 1 sch
  - MUSI 1117 Sight Singing and Ear Training II 1 sch
  - MUSI 2116 Sight Singing and Ear Training III 1 sch
  - MUSI 2117 Sight Singing and Ear Training IV 1 sch
- 
- MUED 3204 Music Methods for Children 2 sch
  - MUED 3206 Secondary Music Methods 2 sch
  - MUSI 3208 Ensemble Repertoire 2 sch
  - MUSI 3220 Music Technology 2 sch
  - MUSI 3280 Conducting Fundamentals 2 sch
  - MUSI 3308 Music History I 3 sch
  - MUSI 3309 Music History II 3 sch
  - MUSI 4280 Ensemble Conducting Methods 2 sch

## Required Major Music Ensemble (7 sch)

- 7 sch of a major ensemble. Band, Choir, or Orchestra

## Piano Proficiency

Piano Proficiency or Complete Exam. These courses are only required if the student is not proficient in piano prior to entering the program.

- MUSI 1210 Class Piano I 2 sch
- MUSI 1211 Class Piano II 2 sch
- MUSI 2210 Class Piano III 2 sch
- MUSI 2211 Class Piano IV 2 sch

## Music Emphasis (14 sch)

Choose an Emphasis

## Choral/Piano Emphasis

- MUSI 3321 Singer's Diction and IPA 3 sch
- MUSI 3331 Choral Ensemble Methods 3 sch
- MUSI 3240 Voice Pedagogy I 2 sch
- MUSI 4140 Vocal Pedagogy Field Experience 1 sch
- MUEN 3113 Jazz Studies & Improvisation 1 sch
- 3 credits upper level music electives
- Choice of any percussion or strings class

## Wind/Percussion/Strings Emphasis

- MUEN 3105 Percussion Class I: Concert Percussion 1 sch
- MUEN 3106 Percussion Class II: Marching Percussion 1 sch
- MUEN 3107 Woodwind Class I: Single Reeds 1 sch
- MUEN 3108 Woodwind Class II: Double Reeds 1 sch
- MUEN 3109 Brass Class I: High Brass 1 sch
- MUEN 3110 Brass Class II: Low Brass 1 sch
- MUEN 3111 Strings Class I: Upper Strings 1 sch
- MUEN 3112 Strings Class II: Lower Strings 1 sch
- MUSI 3222 Choral Methods for Instrumentalists 2 sch
- MUED 3240 Marching Band Methods 2 sch
- MUEN 3113 Jazz Studies & Improvisation 1 sch
- MUAP 1187 Applied Instruction I 1 sch

## Education Component (21 sch)

- PSYC 3341 Child/Adolescent Psychology 3 sch **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch
- EDUC 4326 Reading in the Content Areas 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch
- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

## Music Electives (3 sch)

Additional courses as needed to meet the total hour requirement for the degree.

# Teacher Certifications

## Teacher Certification - EC-6

### General Requirements

Students seeking EC-6 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

### Core Subjects

**Approved major for this certification:** Education.

### Phase I

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Phase II

\*Apply for admission to program prior to registration for Phase III courses.

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4313 Emergent Literacy 3 sch

### Phase III

\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch

### Phase IV

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4312 ECE: Curriculum and Instruction 3 sch
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch

## Phase V

\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - EC-6 with Bilingual Supplement

## General Requirements

Students seeking EC-6 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

## Core Subjects

**Approved major for this certification:** Education

## Phase I

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

\*Apply for admission to program prior to registration for Phase III courses.

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4329 First and Second Language Acquisition 3 sch

## Phase III

\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
- EDUC 4315 Cognition and Biliteracy 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch

## Phase IV

\*Take BTLPT, content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4312 ECE: Curriculum and Instruction 3 sch
- EDUC 4363 Methods of Teaching in the Bilingual Classroom 3 sch
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch

## Phase V

\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch OR (EDUC 4382 and EDUC 4383)

# Teacher Certification - EC-6 with English as a Second Language (ESL)

## General Requirements

Students seeking EC-6 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

## Core Subjects

**Approved major for this certification:** Education

## Phase I

All undergraduate teacher certification options require the completion of three professional foundations courses as the first phase of the program.

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> OR
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

\*Apply for admission to program prior to registration for Phase III courses.

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4329 First and Second Language Acquisition 3 sch

## Phase III

\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch

## Phase IV

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4312 ECE: Curriculum and Instruction 3 sch
- EDUC 4336 Issues of Multilingualism 3 sch
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch

## Phase V

\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch   **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - EC-6 with Special Education EC-12

## General Requirements

Students seeking EC-6 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

## Core Subjects

**Approved major for this certification:** Education

## Phase I

All undergraduate teacher certification options require the completion of three professional foundations courses as the first phase of the program.

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup>    **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

\*Apply for admission to program prior to registration for Phase III courses.

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 4354 Teaching Students with High and Low Incident Disabilities 3 sch

## Phase III

\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch
- EDUC 4356 Behavior Management 3 sch

## Phase IV

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4312 ECE: Curriculum and Instruction 3 sch
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch

## Phase V

\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch    **OR** (EDUC 4382 and EDUC 4383)



# Teacher Certification - Education, EC-12 Art Teacher

## Core Subjects

Approved major for this certification: Art.

### Phase I

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

*\*Apply for admission to program prior to registration for Phase II courses.*

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Phase II

*\*Take the diagnostic tests for the TExES prior to registration for Phase III courses.*

- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch or
- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
  
- EDUC 4326 Reading in the Content Areas 3 sch

### Phase III

*\*Take the content-area TExES and PPR TExES. Apply for admission to student teaching.*

- EDUC 4378 Teaching Visual Arts 3 sch

### Phase IV

*\*For completion of Seminar, pass the content-area TExES and PPR TExES if not previously passed.*

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - Education, EC-12 Languages Other Than English (Spanish)

## Core Subjects

**Approved major for this certification:** Spanish.

## Phase I

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

\*Apply for admission to program prior to registration for Phase II courses.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup>    **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

*\*Take the diagnostic tests for the TExES prior to registration for Phase III courses.*

- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
- EDUC 4326 Reading in the Content Areas 3 sch

## Phase III

*\*Take the content-area TExES and PPR TExES. Apply for admission to student teaching.*

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch

## Phase IV

*\*For completion of Seminar, pass the content-area TExES and PPR TExES if not previously passed.*

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch    **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - Education, EC-12 Music Teacher

## Core Subjects

**Approved major for this certification:** Music.

## Phase I

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

\*Apply for admission to program prior to registration for Phase II courses.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

\*Take the diagnostic tests for the TExES prior to registration for Phase III courses.

- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
- EDUC 4326 Reading in the Content Areas 3 sch

## Phase III

\*Take the content-area TExES and PPR TExES. Apply for admission to student teaching.

- MUSI 4280 Ensemble Conducting Methods 2 sch

## Phase IV

\*For completion of Seminar, pass the content-area TExES and PPR TExES if not previously passed.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - Education, EC-12 Physical Education Teacher

## Core Subjects

**Approved major for this certification:** Human Performance

## Phase I

All undergraduate teacher certification options require the completion of three professional foundations courses as the first phase of the program.

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

\*Apply for admission to program prior to registration for Phase II courses.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch

- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

*\*Take the diagnostic tests for the TExES prior to registration for Phase III courses.*

- EDUC 4326 Reading in the Content Areas 3 sch

## Phase III

*\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.*

- EDUC 4333 Theory and Practice of Teaching: Elementary Physical Education 3 sch
- EDUC 4334 Theory and Practice of Teaching: Secondary Physical Education 3 sch

## Phase IV

*\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.*

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - Education, EC-12 Special Education Teacher

## Core Subjects

**Approved major for this certification:** Child/Family Studies (Special Populations minor).

Special Education "stand alone" certification is recommended only for students who plan to teach in "life skills" classrooms. Students who plan to teach in content area, resource or inclusion settings, should pursue a Core Subjects EC-6 or Core Subjects 4-8 certification with Special Education EC-12 or a secondary content teaching field with a Special Education supplement.

## Phase I

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

*\*Apply for admission to program prior to registration for Phase II courses.*

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

*\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase III courses.*

- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4354 Teaching Students with High and Low Incident Disabilities 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch
  
- EDUC 4325 Reading in the Middle Grades 3 sch or
- EDUC 4327 Literacy Assessment and Intervention 3 sch

## Phase III

*\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.*

*(Take professional practices course if required.)*

- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 4356 Behavior Management 3 sch

## Phase IV

*\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.*

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

## Teacher Certification - Education, Secondary (Grades 6-12, or 7-12)

- Chemistry 7-12
- English Language Arts and Reading 7-12
- History 7-12
- Life Science 7-12
- Mathematics 7-12
- Physical Science 6-12
- Science 7-12
- Social Studies 7-12
- Speech 7-12

## Core Subjects

**Approved majors for these certifications:** English Language Arts/Reading [English]; History [History]; Social Studies [History, Political Science]; Mathematics [Mathematics]; Life Science [Biology]; Chemistry; Physical Science [Chemistry]; Science [Biology]; Speech [Communication].

## Phase I for English Language Arts, History, Social Studies, Speech

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II for English Language Arts, History, Social Studies, Speech

- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
- EDUC 4326 Reading in the Content Areas 3 sch
- (English Language Arts and Reading 7-12 also take EDUC 4323)

## Phase III for English Language Arts, History, Social Studies, Speech

Methods course for the respective content area:

- EDUC 4370 Teaching Social Studies: Grades 7-12 3 sch (History, Social Studies)
- EDUC 4371 Teaching English Language Arts: Grades 7-12 3 sch (English Language Arts)

## Phase IV for English Language Arts, History, Social Studies, Speech

\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.

- EDUC 4685 Student Teaching: Grades 7-12 6 sch
- EDUC 4099 Seminar: Student Teaching 0 sch

## Chemistry, Life Science, Math, Physical Science

### UTeach Teacher Education (12 sch + 6 sch Clinical Teaching)

### UTeach Teacher Education Core (9 sch)

- EDUC 2305 Preparing for Inquiry Based Math and Science Teaching 3 sch **OR**
  
- EDUC 2101 Introduction to Math and Science Teaching 1 sch **AND**
- EDUC 2202 Lesson Design in Math and Science Teaching 2 sch
  
- EDUC 4341 Knowing and Learning 3 sch
- EDUC 4342 Classroom Interactions sch

### Content Area Methods (3 sch)

- EDUC 4343 Multiple Teaching Practices in Math and Science Teaching 3 sch

## Clinical Teaching (6 sch)

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch

# Teacher Certification - Grade 4-8

## General Requirements

Students seeking Grade 4-8 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

## Core Subjects

**Approved major for this certification:** Education.

## Phase I

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

\*Apply for admission to program prior to registration for Phase III courses.

- EDUC 3322 Literature in the Classroom 3 sch or
- EDUC 4323 Adolescent Literature in the Classroom 3 sch

## Phase III

\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.

- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch or
- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
  
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4326 Reading in the Content Areas 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch

## Phase IV

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4374 Teaching Mathematics and Science: Grades 4-8 3 sch
- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch

## Phase V

\*For completion of Seminar, pass content-area TExES and STR and PPR TExES if not previously passed.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - Grade 4-8 English Language Arts & Reading

## General Requirements

Students seeking Grade 4-8 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

## Core Subjects

*Approved major for this certification:* English (English Language Arts and Reading Grades 4-8 Track).

## Phase I

All undergraduate teacher certification options require the completion of three professional foundations courses as the first phase of the program.

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

*\*Apply for admission to program prior to registration for Phase III courses.*

- EDUC 3322 Literature in the Classroom 3 sch or
- EDUC 4323 Adolescent Literature in the Classroom 3 sch



## Phase III

*\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.*

- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch or
- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
  
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4326 Reading in the Content Areas 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch

## Phase IV

*\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.*

- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch

## Phase V

*\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.*

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch   **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - Grade 4-8 Mathematics

## General Requirements

Students seeking Grade 4-8 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

## Core Subjects

**Approved majors for this certification:** Mathematics (4-8 Certification Concentration), Multidisciplinary Studies (math emphasis)

## UTeach Teacher Education (12 sch + 6 sch Clinical Teaching)

### UTeach Teacher Education Core (9 sch)

- EDUC 2305 Preparing for Inquiry Based Math and Science Teaching 3 sch   **OR**
- EDUC 2101 Introduction to Math and Science Teaching 1 sch   **AND**
- EDUC 2202 Lesson Design in Math and Science Teaching 2 sch

- EDUC 4341 Knowing and Learning 3 sch
- EDUC 4342 Classroom Interactions sch

### Content Area Methods (3 sch)

- EDUC 4343 Multiple Teaching Practices in Math and Science Teaching 3 sch

### Clinical Teaching (6 sch)

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch

## Teacher Certification - Grade 4-8 Science

### General Requirements

Students seeking Grade 4-8 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

### Core Subjects

**Approved major for this certification:** Biology. (The minor must be Chemistry or Geology.)

### UTeach Teacher Education (12 sch + 6 sch Clinical Teaching)

#### UTeach Teacher Education Core (9 sch)

- EDUC 2305 Preparing for Inquiry Based Math and Science Teaching 3 sch **OR**
- EDUC 2101 Introduction to Math and Science Teaching 1 sch **AND**
- EDUC 2202 Lesson Design in Math and Science Teaching 2 sch
- EDUC 4341 Knowing and Learning 3 sch
- EDUC 4342 Classroom Interactions sch

### Content Area Methods (3 sch)

- EDUC 4343 Multiple Teaching Practices in Math and Science Teaching 3 sch

### Clinical Teaching (6 sch)

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch

# Teacher Certification - Grade 4-8 Social Studies Teacher

## General Requirements

Students seeking Grade 4-8 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

## Core Subjects

**Approved major for this certification:** History.

### Phase I

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup>    **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Phase II

*\*Apply for admission to program prior to registration for Phase III courses.*

- EDUC 3322 Literature in the Classroom 3 sch or
- EDUC 4323 Adolescent Literature in the Classroom 3 sch

### Phase III

*\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.*

- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch or
- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
  
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4326 Reading in the Content Areas 3 sch

### Phase IV

*\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.*

- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch

## Phase V

*\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.*

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - Grade 4-8 with Bilingual Supplement

## General Requirements

Students seeking Grade 4-8 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

## Core Subjects

**Approved major for this certification:** Education

## Phase I

All undergraduate teacher certification options require the completion of three professional foundations courses as the first phase of the program.

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

*\*Apply for admission to program prior to registration for Phase III courses.*

- EDUC 3322 Literature in the Classroom 3 sch or
- EDUC 4323 Adolescent Literature in the Classroom 3 sch
  
- EDUC 4329 First and Second Language Acquisition 3 sch

## Phase III

*\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.*

- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch or
- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
- EDUC 4315 Cognition and Biliteracy 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch

## Phase IV

\*Take BTLPT, content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
- EDUC 4374 Teaching Mathematics and Science: Grades 4-8 3 sch
- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch

## Phase V

\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - Grade 4-8 with English as a Second Language (ESL) Supplement

## General Requirements

Students seeking Grade 4-8 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

## Core Subjects

**Approved major for this certification:** Education

## Phase I

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

*\*Apply for admission to program prior to registration for Phase III courses.*

- EDUC 3322 Literature in the Classroom 3 sch or
- EDUC 4323 Adolescent Literature in the Classroom 3 sch
  
- EDUC 4329 First and Second Language Acquisition 3 sch

## Phase III

*\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.*

- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch or
- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
  
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4326 Reading in the Content Areas 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch
- EDUC 4336 Issues of Multilingualism 3 sch

## Phase IV

*\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.*

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
  
- EDUC 4374 Teaching Mathematics and Science: Grades 4-8 3 sch
- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch

## Phase V

*\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.*

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch   **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification - Grade 4-8 with Special Education EC-12

## General Requirements

Students seeking Grade 4-8 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

## Core Subjects

**Approved major for this certification:** Education

## Phase I

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch <sup>1</sup> **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch <sup>2</sup>
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

*\*Apply for admission to program prior to registration for Phase III courses.*

- EDUC 3322 Literature in the Classroom 3 sch or
- EDUC 4323 Adolescent Literature in the Classroom 3 sch
  
- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 4354 Teaching Students with High and Low Incident Disabilities 3 sch

## Phase III

*\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.*

- EDUC 4321 Classroom Instruction and Management: Grades 4-8 3 sch or
- EDUC 4322 Classroom Instruction and Management: Grades 7-12 3 sch
  
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4326 Reading in the Content Areas 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch
- EDUC 4356 Behavior Management 3 sch

## Phase IV

*\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.*

- EDUC 4374 Teaching Mathematics and Science: Grades 4-8 3 sch
- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch

## Phase V

*\*For completion of Seminar, pass content-area TExES and PPR TExES if not previously passed.*

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification PreK-3

## Teacher Certification PreK -3

### General Requirements

Students seeking PreK-3 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

### Core Subjects

**Approved major for this certification:** Education

### Phase 1

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch   **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Phase II

\*Apply for admission to program prior to registration for Phase III courses.

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4313 Emergent Literacy 3 sch

### Phase III

\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch

### Phase IV

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.



- EDUC 4312 ECE: Curriculum and Instruction 3 sch
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch

## Phase V

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification PreK-3 with Bilingual Supplement

## Teacher Certification PreK -3

### General Requirements

Students seeking PreK-3 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

### Core Subjects

**Approved major for this certification:** Education

## Phase 1

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch **OR**
- PSYC 3344 Life-Span Psychology 3 sch
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

\*Apply for admission to program prior to registration for Phase III courses.

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4329 First and Second Language Acquisition 3 sch

## Phase III

\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.

- EDUC 4315 Cognition and Biliteracy 3 sch
- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch

## Phase IV

\*Take BTLPT, content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4312 ECE: Curriculum and Instruction 3 sch
- EDUC 4363 Methods of Teaching in the Bilingual Classroom 3 sch
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch

## Phase V

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification PreK-3 with English as a Second Language (ESL)

## Teacher Certification PreK -3

### General Requirements

Students seeking PreK-3 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

### Core Subjects

**Approved major for this certification:** Education

## Phase 1

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch   **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Phase II

\*Apply for admission to program prior to registration for Phase III courses.

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4329 First and Second Language Acquisition 3 sch

## Phase III

\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch

## Phase IV

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4312 ECE: Curriculum and Instruction 3 sch
- EDUC 4336 Issues of Multilingualism 3 sch
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch

## Phase V

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch   **OR** (EDUC 4382 and EDUC 4383)

# Teacher Certification PreK-3 with Special Education EC-12

## Teacher Certification PreK -3

### General Requirements

Students seeking PreK-3 certification must complete at least 9 semester credit hours of mathematics at or above college-level algebra and at least 12 semester credit hours of science, including both life and physical sciences. They should plan accordingly when completing general education and elective course requirements.

### Core Subjects

**Approved major for this certification:** Education

### Phase 1

<sup>1</sup>PSYC 2308, PSYC 2314, and TECA 1354 are accepted in transfer as equivalent courses.

<sup>2</sup>EDUC 2301 is accepted in transfer as an equivalent course.

- PSYC 3341 Child/Adolescent Psychology 3 sch   **OR**
- PSYC 3344 Life-Span Psychology 3 sch
  
- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

### Phase II

\*Apply for admission to program prior to registration for Phase III courses.

- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4311 ECE: Social and Emotional Development 3 sch
- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 4354 Teaching Students with High and Low Incident Disabilities 3 sch

### Phase III

\*Take the appropriate diagnostic tests for the TExES prior to registration for Phase IV courses.

- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
- EDUC 4324 Reading Development in Primary Grades 3 sch
- EDUC 4325 Reading in the Middle Grades 3 sch
- EDUC 4327 Literacy Assessment and Intervention 3 sch
- EDUC 4356 Behavior Management 3 sch

## Phase IV

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4312 ECE: Curriculum and Instruction 3 sch
- EDUC 4372 Teaching Mathematics and Science: EC-6 3 sch
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch

## Phase V

\*Take content-area TExES and PPR TExES. Apply for admission to student teaching.

- EDUC 4099 Seminar: Student Teaching 0 sch
- EDUC 4681 Clinical Teaching 6 sch **OR** (EDUC 4382 and EDUC 4383)

# Bilingual Education-Spanish Supplemental Certificate

Supplemental certifications are not "stand alone" certifications, i.e., they can only be added to a base certificate.

## Certificate Requirements

- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch
- EDUC 4329 First and Second Language Acquisition 3 sch
- EDUC 4315 Cognition and Biliteracy 3 sch
- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch or
- EDUC 4363 Methods of Teaching in the Bilingual Classroom 3 sch

# English as a Second Language Supplemental Certificate

Supplemental certifications are not "stand alone" certifications, i.e., they can only be added to a base certificate.

## Certificate Requirements

- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch
- EDUC 4329 First and Second Language Acquisition 3 sch
- EDUC 4317 Second Language Acquisition Principles EC-6 3 sch or
- EDUC 4336 Issues of Multilingualism 3 sch

# Special Education Supplemental Certificate

Supplemental certifications are not "stand alone" certifications, i.e., they can only be added to a base certificate.

## Certificate Requirements

- EDUC 3352 The Exceptional Child 3 sch
- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 4354 Teaching Students with High and Low Incident Disabilities 3 sch
- EDUC 4356 Behavior Management 3 sch

# Minors

## Accountancy Minor

Business Discipline Specific minors are available for Accountancy, Finance, Management, and Marketing, and Entrepreneurship. Each minor gives the non-business student a specialized background in the selected field. At least 50% of upper level business credit hours in the minor must be taken at U.T. Permian Basin.

Students pursuing a Business Discipline Specific minor must meet all prerequisites of courses included in the minor, even if these prerequisites cause the minor coursework to exceed the number of credit hours listed below. See the course descriptions in the major area to ascertain the prerequisites for each course.

### Minor Requirements (18 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- ACCT 2302 Principles of Managerial Accounting 3 sch
- ACCT 3301 Intermediate Accounting I 3 sch
- ACCT 3302 Intermediate Accounting II 3 sch
- ACCT 3303 Cost Accounting Principles 3 sch
- ACCT 3305 Federal Income Tax 3 sch

## Art History Minor

The Art History Minor is an appropriate minor for many disciplines as it provides an opportunity for students to enhance their educations with knowledge about world arts. Many students who major in History find that their history courses are reinforced through taking Art History courses. The Art History Minor can be completed by taking face to face, online or a combination of both courses.

### Lower Level

- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch

### Upper Level

#### Two Art History courses before the Twentieth Century (6 sch)

- ARTS 3301 Women Artists I 3 sch
- ARTS 3303 American Art I 3 sch
- ARTS 4304 History of Nineteenth Century Art 3 sch
- ARTS 4305 History of Renaissance Art 3 sch

## Two Art History courses related to the Twentieth and Twenty-first Centuries (6 sch)

- ARTS 3302 Women Artists II 3 sch
- ARTS 3305 Modern Hispanic Art and Its Foundation 3 sch
- ARTS 4300 Concepts in Modern Art 3 sch
- ARTS 4301 Art since 1940 3 sch

## Art Minor

The Art minor is geared toward students who are interested in hands-on activities. This minor is appropriate for students who enjoy studio courses but wish to pursue a different major field.

## Freshman/Sophomore Level Courses (9 sch)

One of the following courses:

- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch

One of the following courses:

- ARTS 1311 Two-Dimensional Design 3 sch
- ARTS 1312 Three-Dimensional Design 3 sch

One of the following courses:

- ARTS 1316 Introduction to Drawing 3 sch
- ARTS 2310 Figure Composition I 3 sch

## Junior/Senior Level Courses (3 sch)

One of the following courses:

- ARTS 3301 Women Artists I 3 sch
- ARTS 3302 Women Artists II 3 sch
- ARTS 3303 American Art I 3 sch
- ARTS 3305 Modern Hispanic Art and Its Foundation 3 sch
- ARTS 4300 Concepts in Modern Art 3 sch
- ARTS 4301 Art since 1940 3 sch
- ARTS 4304 History of Nineteenth Century Art 3 sch
- ARTS 4305 History of Renaissance Art 3 sch

## Two Junior or Senior level Studio Courses (6 sch)



# Bilingual/English as a Second Language Minor

Administered by the Department of Literacy, Language, and Special Populations within the College of Education. The minor in Bilingual/E.S.L. provides students the opportunity to develop an understanding of the role of language in society, how an individual functions in a society where his/her primary language is not the primary language of the society, and how a second language is acquired. This understanding is useful for those working in a bilingual or E.S.L. classroom, workplace or social service organization. It also provides the individual with insight into the bilingual society of the Southwestern United States.

## Minor Requirements

The total semester hours required for the minor in Bilingual/ESL is 18. At least 9 of the credit hours must be at the upper level.

\*A student must be admitted to the Teacher Education Program before enrolling in any course denoted with an asterisk (\*).

^These courses require proficiency in Spanish. See the course descriptions for pre-requisites.

## Required Courses

- EDUC 4329 First and Second Language Acquisition 3 sch Or CHLD 4329
- EDUC 4362 Foundations of Bilingualism and Multiculturalism 3 sch

## Choose one course from the following:

- ENGL 3371 The English Language 3 sch
- ENGL 3372 English Grammar 3 sch

## Choose three courses from the following:

- \* EDUC 4315 Cognition and Bilingualism 3 sch
- \* EDUC 4317 Second Language Acquisition Principles EC-6 3 sch
- \* EDUC 4336 Issues of Multilingualism 3 sch
- \*^ EDUC 4363 Methods of Teaching in the Bilingual Classroom 3 sch
- ENGL 3306 American Multicultural Fiction 3 sch
- ENGL 3371 The English Language 3 sch (if not taken to fulfill another requirement)
- ENGL 3372 English Grammar 3 sch (if not taken to fulfill another requirement)
- PSYC 3341 Child/Adolescent Psychology 3 sch
- PSYC 3344 Life-Span Psychology 3 sch
- SOCI 4320 Social Stratification 3 sch
- ^ SPAN 3311 Practical Spanish and Translation 3 sch

# Biology Minor

Biology serves as an appropriate minor area for students to complement majors in other sciences, such as Chemistry, Environmental Science, or Geology, in the behavioral sciences, such as Kinesiology, Psychology and Sociology, and in many other majors.

Biology minors who intend to certify in Biology as a second teaching field must complete at least 24 semester credit hours rather than the 20 semester credit hours of an ordinary Biology minor, with a minimum of 12 semester credit hours at the upper level. In addition, they must complete the following requirements: CHEM 1311 General Chemistry I-CHEM 1111 General Chemistry Lab I and CHEM 1312 General Chemistry II-CHEM 1112 General Chemistry Lab II

Students transferring credits to U. T. Permian Basin in clinical courses such as nursing, medical technology and other allied health areas should consult with the Chair of the Health Professions Advisory Committee to determine the number of incoming credits that may apply toward a degree. The biology faculty will help students design programs of study to satisfy specific career objectives. A minimum of 120 hours, 48 of which must be upper-level, are required for the Bachelor's degree.

## Minor Requirements (21 sch)

Students earning a minor in Biology must take a minimum of 21 semester credit hours with a minimum of 12 at the upper level as follows.

- BIOL 1306 General Biology I 3 sch
- BIOL 1106 General Biology I Laboratory 1 sch
- BIOL 1307 General Biology II 3 sch
- BIOL 1107 General Biology II Laboratory 1 sch
- BIOL 4340 Genetics 3 sch (lab not required)
- BIOL 4342 Evolution 3 sch

## Choose Any Two Courses of the Following List as Electives

But no more than one course from each group of "or" choices, bearing in mind that any prerequisites to a choice must be met:

- BIOL 3300 Microbiology 3 sch
- BIOL 3101 Microbiology Laboratory 1 sch or
- BIOL 3324 Cell Biology 3 sch
- BIOL 3125 Cell Biology Laboratory 1 sch
  
- BIOL 3230 Botany 2 sch
- BIOL 3231 Botany Laboratory 2 sch or
- BIOL 3310 Invertebrate Zoology 3 sch
- BIOL 3111 Invertebrate Zoology Laboratory 1 sch or
- BIOL 3312 Vertebrate Zoology 3 sch
- BIOL 3113 Vertebrate Zoology Laboratory 1 sch
  
- BIOL 3350 Human Anatomy 3 sch
- BIOL 3151 Human Anatomy Laboratory 1 sch

- BIOL 3352 Human Physiology 3 sch
- BIOL 3153 Human Physiology Laboratory 1 sch
- BIOL 3372 Principles of Ecology 3 sch

## Business Minor

The Business minor gives the non-business student a broad-based background in the field. Non-business students wishing to gain an understanding of commercial ventures or pursue a Master of Business Administration (MBA) degree would be well served with this minor.

Students pursuing a Business minor must meet all prerequisites of courses included in the minor. See the course descriptions in the major area to ascertain the prerequisites for each course. At least 50% of upper level business credit hours in the minor must be taken at U.T. Permian Basin.

Economics majors pursuing a Business minor must take at least 6 additional credit hours of approved upper division business electives due to overlapping courses between their major and a Business minor (ECON 2301 & ECON 2302).

Business minors seeking preparation for a MBA degree should choose a management elective (course prefix MNGT) to meet the criteria to waive ACCT 6301, ECON 6301 and MNGT 6360 in the UTPB MBA program, reducing the MBA program requirements from 48 to 39 credit hours. The Graduate Catalog or Chair of Graduate Studies should be consulted for additional information about preparation for the MBA degree.

Students who are seeking a teaching field in Business Administration must choose and three hours from FINA 3320 or ECON 3322 and must complete COSC 1335. The Certification Officer should be consulted for additional information about preparation for teaching business administration.

### Minor Requirements (21 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- ACCT 2302 Principles of Managerial Accounting 3 sch
- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- MNGT 3310 Principles of Management 3 sch
- MRKT 3300 Principles of Marketing 3 sch
- An additional 3 sch of upper level ACCT, BUSI, ECON, FINA, MNGT, or MRKT courses

## Chemistry Minor

The Chemistry minor provides an appropriate supporting background particularly suited for students typically pursuing a major in another area of science, technology, engineering, or math. This plan furnishes some knowledge about various fields of chemistry (inorganic, organic, etc.) and provides the essential analytical tools for other areas of study.

### Minor Requirements (Total: 21 total sch and ≥9 UL sch)

The total semester credit hour requirement for a minor in Chemistry is 21 with at least 9 sch at the upper level. The Chemistry minor is specifically described by the following courses as taken at UTPB. Transfer students may be required to take the 1 sch upper level credit for CHEM 3114 Organic Chemistry Lab II, particularly if they have not

had access to modern analytical instrumentation during their previous experience. Research in chemistry may not be substituted for any lecture or lab without written consent of the Chemistry chair.

## Lower Level

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch

## Upper Level

- CHEM 3311 Organic Chemistry I 3 sch
- CHEM 3113 Organic Chemistry Lab I 1 sch
- CHEM 3312 Organic Chemistry II 3 sch
- CHEM 3114 Organic Chemistry Lab II 1 sch
- CHEM 3324 Analytical Chemistry I 3 sch

# Child and Family Studies Minor

## Minor Requirements

A minor in Child and Family Studies requires that the students take 18 semester credit hours. Twelve (12) of these credits must be upper level (junior or senior level) courses from within the Child and Family Studies major. The lower level hours can be satisfied by TECA courses, by EDUC courses that are part of the Associate of Arts in Teaching degree, or SOCI 1301 and/or PSYC 1301 .

# Communication Minor

Communication skills are an essential component of success in any field of endeavor, and the minor in Communication is an excellent companion to nearly any major offered at the University. The requirement for a minor in Communication is 18 semester credit hours in the discipline, of which 12 hours or more are upper level. No specific courses are required. COMM 1301 is recommended and COMM 1315 may be counted toward the minor. Students are encouraged to consult with any member of the Communication faculty to determine a program of study that would be most useful in meeting their professional goals.

# Computer Science Minor

## Minor Requirements (20/22 sch)

Students seeking a minor in computer science must complete the courses listed below, or equivalent courses as approved by a computer science advisor.

Faculty in Computer Science may allow transferred credits to count towards a major or a minor in Computer Science. The number of credit hours required, at the upper-level or in total, can not be reduced except by academic petition.

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 2420 C Programming 4 sch or another course in a high level Language approved by the advisor
- COSC 3310 Digital Computer Organization 3 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 3xxx or COSC 4xxx (3/4) sch

## Economics Minor

### Minor Requirements (18 sch)

- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- ECON 4323 Intermediate Macroeconomics 3 sch
- Any additional approved Economics courses at the 3000 or 4000 level totaling 6 hours.

## Energy Studies Minor

### Minor Requirements

The total semester credit hours required for a minor in Energy Studies is 18 hours, of which at least 9 hours must be at upper level. Students are encouraged to consider taking more than the minimum hours and to diversify their choices among disciplines. Courses may be selected from those listed below. Note that a number of the courses have prerequisites that must be completed before enrolling in them. Additional courses under development may also be approved for the Energy Studies minor.

### Business Courses

- ACCT 4310 Oil and Gas Accounting 3 sch
- ECON 2301 Principles of Macroeconomics 3 sch
- ECON 4333 Business and Economic History 3 sch
- FINA 3320 Principles of Finance 3 sch
- MNGT 3309 Energy Management 3 sch
- MNGT 3370 Business and Ethics 3 sch
- MNGT 4324 Energy Law 3 sch

### Science Courses

- CHEM 1311 General Chemistry I 3 sch
- CHEM 1111 General Chemistry Lab I 1 sch
- CHEM 1312 General Chemistry II 3 sch
- CHEM 1112 General Chemistry Lab II 1 sch
- GEOL 1301 Physical Geology 3 sch
- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1302 Historical Geology 3 sch

- GEOL 1102 Historical Geology Laboratory 1 sch
- GEOL 3308 Sedimentology 3 sch
- GEOL 4317 Geology of the Permian Basin 3 sch

## Technology Courses

- PTEC 3301 Petroleum Fundamentals 3 sch

## Communication, History, and Social Science Courses

- HIST 3348 Post-War America 1945-present 3 sch
- HIST 4370 American Petroleum Industry 3 sch
- PLSC 4341 Environmental Policy 3 sch
- PLSC 4345 Public Policy 3 sch
- SOCI 4316 Energy and Society 3 sch

# English Minor

## Minor Requirements (18 sch)

The minor in English is composed of eighteen hours of study, at least twelve of which must be junior level or above. Freshman English courses are not included in the number of courses toward the minor. ENGL 3300 Theoretical Approaches to Literature is required of all students in the minor.

The student may select the remaining five courses according to her or his interests and goals, with the provisions that:

- one course must be in British Literature
- one course must be in American Literature
- and at least one course must be at the senior (4000) level.

# Entrepreneurship Minor

Business Discipline Specific minors are available for Accountancy, Finance, Management, and Marketing, and Entrepreneurship. Each minor gives the non-business student a specialized background in the selected field. At least 50% of upper level business credit hours in the minor must be taken at U.T. Permian Basin.

Students pursuing a Business Discipline Specific minor must meet all prerequisites of courses included in the minor, even if these prerequisites cause the minor coursework to exceed the number of credit hours listed below. See the course descriptions in the major area to ascertain the prerequisites for each course.

## Required Courses (15 sch)

- ACCT 1301 Accounting for Non-Business 3 sch
- Or
- ACCT 2301 Principles of Financial Accounting 3 sch

- BUSI 3335 Foundations of Entrepreneurship 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- MNGT 3310 Principles of Management 3 sch
- MRKT 3300 Principles of Marketing 3 sch

### Elective Course (3 sch)

- BUSI 4310 Raising Entrepreneurial Capital 3 sch
- MNGT 3318 Small Business Management 3 sch
- MNGT 3380 Managing Technology 3 sch
- MRKT 3306 Retailing and Distribution 3 sch
- MRKT 3307 Sales Management 3 sch
- MRKT 4302 E-Commerce 3 sch
- MRKT 4322 Social Media Marketing 3 sch

## Exercise Science Minor

### Minor Requirements (22 sch)

A Kinesiology Minor may be obtained by successfully completing 22 semester credit hours in Kinesiology of which 13 must be upper level. **Students seeking a Bachelor Degree in Kinesiology or a Bachelor of Athletic Training must pass each course taken for the major, the minor, and all prerequisites for the courses in the Kinesiology degree plans with a grade of C or better.**

- KINE 1301 Concepts in Fitness and Health 3 sch
- KINE 2306 First Aid 3 sch
- KINE 2385 Anatomy and Physiology for Kinesiology 3 sch
- KINE 3340 Analysis of Human Movement 3 sch
- KINE 3350 Physiology of Exercise 3 sch
- KINE 3151 Lab: Exercise Physiology 1 sch
- KINE 4310 Sports Skill Analysis 3 sch
- KINE 4320 Psychology of Sport 3 sch or
- KINE 4350 Psychology of Exercise 3 sch or
- KINE 4340 Sociology of Sport and Physical Activity 3 sch or
- KINE 4325 Women and Sport

### Note

Physical activity and forms of movement courses, including those labeled KINE 1109-1134, KINE 1155-KINE 1159, KINE 1309, or KINE 1333 are encouraged, but do not count toward the 22 credit hour requirement.

# Finance Minor

Business Discipline Specific minors are available for Accountancy, Finance, Management, and Marketing, and Entrepreneurship. Each minor gives the non-business student a specialized background in the selected field. At least 50% of upper level business credit hours in the minor must be taken at U.T. Permian Basin.

Students pursuing a Business Discipline Specific minor must meet all prerequisites of courses included in the minor, even if these prerequisites cause the minor coursework to exceed the number of credit hours listed below. See the course descriptions in the major area to ascertain the prerequisites for each course.

## Minor Requirements (18 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- BUSI 2342 Principles of Statistics 3 sch
- ECON 2302 Principles of Microeconomics 3 sch
- FINA 3320 Principles of Finance 3 sch
- 6 credit hours of approved upper level Finance courses

## Minor Requirements for Economics Majors (18 sch)

Economics majors selecting a Finance Minor must take

- ACCT 2301 Principles of Financial Accounting 3 sch
- FINA 3320 Principles of Finance 3 sch
- FINA 4323 Financial Markets, Institutions & Instruments 3 sch
- FINA 4325 Options and Futures 3 sch
- FINA 4327 Principles of Investments 3 sch
- 3 credit hours of approved upper level Finance courses.

# Fine Arts Minor

The Fine Arts minor allows for the exploration of the visual and performing arts to give students a broad based and diverse education in the fine arts.

## Minor Requirements (18 sch)

The requirements for the Fine Arts minor include a minimum of 18 semester credit hours as follows:

- ARTS 1301 Art Appreciation 3 sch
- MUSI 1306 Music Appreciation 3 sch

# Geology Minor

## Minor Requirements (18 sch)

- GEOL 1301 Physical Geology 3 sch



- GEOL 1101 Physical Geology Laboratory 1 sch
- GEOL 1302 Historical Geology 3 sch
- GEOL 1102 Historical Geology Laboratory 1 sch
- Ten additional upper level credit hours

## Graphic Design Minor

The Graphic Design minor is available to students who are enrolled in a Bachelor's degree at UTPB. The minor will serve non-art majors. This minor will provide an opportunity for students to learn the concepts, vocabulary and design elements necessary for graphic design.

### Lower Level Courses (12 sch)

- ARTS 1311 Two-Dimensional Design 3 sch
- ARTS 1316 Introduction to Drawing 3 sch
- ARTS 2348 Digital and Lens Imagery 3 sch
- ARTS 2358 Graphic Art: Typography 3 sch

### Upper Level Courses (9 sch)

- ARTS 3348 Graphic Design: Print 3 sch
- ARTS 4348 Graphic Design: Web 3 sch

**One of the courses listed below:**

- ARTS 3346 Digital Photography 3 sch
- ARTS 3360 Papermaking/Bookmaking 3 sch
- ARTS 4392 Internship 3 sch

## Healthcare Management Minor

### Requirements

The minor in Healthcare Management will provide knowledge in the unique business environment of the healthcare industry. Courses must be taken from the following:

### Complete the Following (6 sch)

- ACCT 2301 Principles of Financial Accounting 3 sch
- MNGT 3310 Principles of Management 3 sch

### Complete Four of the Following (12 sch)

- ACCT 4334 Accounting for Healthcare 3 sch
- ACCT 3334 Healthcare Management Information Systems 3 sch     **OR**

- MNGT 3334 Healthcare Management Information Systems 3 sch
- FINA 4333 Healthcare Finance 3 sch
- MNGT 4331 Healthcare Management 3 sch
- MRKT 4335 Healthcare Marketing 3 sch
- MNGT 4336 Healthcare Law 3 sch
- A Special Topics course in a business discipline on a healthcare topic approved by the Coordinator.

## History Minor

A minor in history consists of 18 semester credit hours, 9 of which must be at the upper level. Students declaring history as a second teaching field must fulfill all requirements for the major in history.

### Minor Requirements (18 sch)

#### Lower Level (9 sch)

- HIST 1301 History of the United States to 1877 3 sch
- HIST 1302 History of the United States Since 1877 3 sch
- Any 2000-level (non-US) (3) sch

#### Upper Level (9 sch)

- History Any upper level (3) sch
- History Any upper level (3) sch
- History Any upper level (3) sch

## Management Minor

Students pursuing a B.B.A do not have the option of completing a minor. A minor in Management consists of a total of 18 sch.

### Minor Requirements (18 sch)

- MNGT 3310 Principles of Management 3 sch
- MNGT 3312 Human Resource Management 3 sch
- 12 additional approved hours of MNGT other than MNGT 4375

## Marketing Minor

Business Discipline Specific minors are available for Accountancy, Finance, Management, and Marketing, and Entrepreneurship. Each minor gives the non-business student a specialized background in the selected field. At least 50% of upper level business credit hours in the minor must be taken at U.T. Permian Basin.

Students pursuing a Business Discipline Specific minor must meet all prerequisites of courses included in the minor,

even if these prerequisites cause the minor coursework to exceed the number of credit hours listed below. See the course descriptions in the major area to ascertain the prerequisites for each course.

## Minor Requirements (18 sch)

- ECON 2302 Principles of Microeconomics 3 sch
- MRKT 3300 Principles of Marketing 3 sch
- MRKT 3315 Consumer Behavior 3 sch
- 3 Upper Level MRKT courses

## Mathematics Minor

### Minor Requirements (20-21 sch)

Students minoring in Mathematics must have at least 9 credit hours at the upper level and at least 20 credit hours total, as minor electives. Faculty in Mathematics may allow transferred credits to count towards a minor in Mathematics.

#### Lower Level

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch

#### Upper Level

- MATH 3305 Mathematical Reasoning 3 sch

#### One from the following

- MATH 2415 Calculus III 4 sch
- MATH 3320 Differential Equations 3 sch
- MATH 3301 Introduction to Probability I 3 sch
- MATH 4360 Theory of Real Analysis 3 sch

#### One from the following

- MATH 3310 Linear Algebra 3 sch
- MATH 4315 Algebraic Structures 3 sch
- COSC 3312 Discrete Mathematics 3 sch

#### One more upper level math class (3 sch)

- MATH 3xxx or MATH 4xxx

# Mexican-American/Chicano Studies Minor

The undergraduate minor in Mexican-American/Chicano Studies is an interdisciplinary program which will introduce students to the study of the Mexican-American/Chicano experience. The combined courses will explore topic such as Chicano history, politics, immigration, literature, art, and issues of race/ethnicity.

## Minor Requirements

Students will complete 18 credit hours as described below with no more than nine in any discipline.

## The Remaining Courses are to be Chosen from the Following:

### Arts

- ARTS 3305 Modern Hispanic Art and Its Foundation 3 sch

### Education

- EDUC 4329 First and Second Language Acquisition 3 sch
- EDUC 4336 Issues of Multilingualism 3 sch

### English

- ENGL 3306 American Multicultural Fiction 3 sch

### History

- HIST 3359 Studies in Mexican-American History 3 sch

### Spanish

- SPAN 3312 Spanglish
- SPAN 4351 Mexican Literature 3 sch
- SPAN 4352 Mexican-American Literature 3 sch

# Multicultural Studies Minor

## Minor Requirements

Students will choose 18 hours from the following courses. SOCI 4320 is required.

It is also recommended that students take:

- No more than 3 hours in the major discipline
- No more than 6 hours of lower level courses

- No more than 6 hours from any one discipline

**The Spanish courses have prerequisites which require fluency in the language. Please see the course descriptions in the Spanish section of this catalog for specific prerequisites. This may apply to other courses as well.**

- ARTS 2340 Art History Survey I
- ARTS 2341 Art History Survey II
- ARTS 3300 Cross Cultural Art History
- ARTS 3301 Women Artists I 3 sch
- ARTS 3303 American Art I 3 sch
- ARTS 3305 Modern Hispanic Art and Its Foundation 3 sch
- ARTS 4302 History of African American Art 3 sch
- EDUC 3322 Literature in the Classroom 3 sch
- ENGL 3306 American Multicultural Fiction 3 sch
- ENGL 3325 American Women Playwrights
- ENGL 3335 American Women Novelists 3 sch
- HIST 3326 19th-Century Europe 3 sch
- HIST 3355 Slavery in America 3 sch
- HIST 3381 Modern China 3 sch
- HIST 4307 South Africa 3 sch
- HIST 4336 Third Reich and Holocaust 3 sch
- HIST 4366 The Civil Rights Movement 3 sch
- MNGT 4320 International Management 3 sch
- PSYC 3311 Social Psychology 3 sch
- PSYC 3341 Child/Adolescent Psychology 3 sch
- PSYC 4307 Health Psychology 3 sch
- PSYC 4381 Gender Studies 3 sch
- SOCI 4317 Women's Studies 3 sch
- SOCI 4320 Social Stratification 3 sch
- SOCI 4370 Family Dysfunction and Substance Abuse 3 sch
- SPAN 3311 Practical Spanish and Translation 3 sch
- SPAN 3321 Hispanic Civilization 3 sch
- SPAN 4301 Spanish Literature I 3 sch
- SPAN 4311 Spanish-American Literature I 3 sch
- SPAN 4351 Mexican Literature 3 sch
- SPAN 4352 Mexican-American Literature 3 sch

## Music Minor

Students in a degree program majoring in another department at UTPB may concurrently earn a minor in Music. A minimum of 18 hours of music courses must be completed with a minimum of six hours in each of the three categories listed below. Note that three semesters of a major ensemble and four semesters of Recital Attendance are required for all music minors.

### Minor Requirements (18 sch)

- A minimum of 18 hours of music courses must be completed. A minimum of 9 credits must be upper division courses.

- Music courses are any course with the MUEN, MUAP, MUED, or MUSI prefix.
- A minimum of 9 hours must be completed at UTPB
- A maximum of 8 total sch courses with a MUEN prefix may be applied toward the total.

## Physics Minor

A minor in physics requires 19 semester credit hours.

### Required Courses (17 sch)

- PHYS 2125 University Physics I Laboratory 1 sch
- PHYS 2126 University Physics II Laboratory 1 sch
- PHYS 2325 University Physics I 3 sch
- PHYS 2326 University Physics II 3 sch
- PHYS 3310 Modern Physics 3 sch
- PHYS 4324 Computational Methods for Scientists and Engineers
- PHYS 4326 Sensors & Measurement 3 sch

### Additional Credit Hours (2 sch)

- PHYS 3695 Introduction to Physics Research 1-3 sch
- PHYS 4389 Special Topics in Physics 3 sch

## Political Science Minor

The purpose of the minor in political science is to provide students with some depth in a secondary field of study in American government and politics. Students will also have the option of taking courses in comparative and international politics which will give them a global perspective. A minor in political science will give students a basic knowledge of political systems and how institutions of government operate to solve social and political problems.

### Minor Requirements (18 sch)

- PLSC 2305 American National Politics 3 sch
- PLSC 2306 State and Local Politics 3 sch
- 12 hours of upper-level political science courses (12) sch

## Popular Culture, Minor

The minor allows the student to develop their knowledge of the complex processes involved in learning to look at the world creatively and critically. The Popular Culture minor is appropriate for students who are engaged in arts education, policy development, community partnerships, creative thinking, research, and advocacy. Students will learn to identify the need for community engagement and outreach through community non-profits, schools, criminal justice systems, ceremonial and religious practices, racial and ethnic organizations, military groups, mental health services, ecological resources, and others.

## Required Courses (9 sch)

- ARTS 1303 Art History Survey I 3 sch
- ARTS 1304 Art History Survey II 3 sch
- SOCI 1301 Introduction to Sociology 3 sch

## Elective Courses (9 sch)

Choose three of the following Junior/Senior level electives.

- ARTS 3301 Women Artists I 3 sch
- ARTS 3302 Women Artists II 3 sch
- ARTS 3305 Modern Hispanic Art and Its Foundation 3 sch
- ARTS 4301 Art since 1940 3 sch
- ARTS 4302 History of African American Art 3 sch
- ARTS 4304 History of Nineteenth Century Art 3 sch
- ENGL 3332 Literature and Art 3 sch
- ENGL 3333 Literature & Mythology 3 sch
- SOCI 3351 Music in Society 3 sch
- SOCI 4352 Culture and Society 3 sch
- SOCI 4353 Art in Community 3 sch
- SOCI 4389 Selected Topics 3 sch
- SOCI 4394 Independent Research in Sociology 3 sch

## Psychological Health and Wellness, Minor

The minor in Psychological Health and Wellness is designed to give students exposure to the psychological science of wellness and health. This program is relevant to any student pursuing academic majors that involve working with people or social communication systems. This minor cannot be taken if one is a psychology major.

## Required Courses (9 sch)

- PSYC 1301 Introduction to Psychology 3 sch
- PSYC 3350 Positive Psychology 3 sch
- PSYC 4307 Health Psychology 3 sch

## Select Three Additional Courses from the List (9 sch)

- PSYC 3344 Life-Span Psychology 3 sch
- PSYC 3386 Human Sexuality 3 sch
- PSYC 4304 Physiological Psychology 3 sch
- PSYC 4305 Drugs and Behavior 3 sch

# Psychology Minor

A minor in psychology supports students who are interested in broadening their knowledge of human behavior and mental processes. This can be of great value in business, teaching, government, health and human service careers.

## Minor Requirements

- The total credits required for a minor in Psychology is **18**
- 12 of the 18 credits required must be upper level (3000 or 4000).
- PSYC 1301 Introduction to Psychology is required; however, if prerequisites are met, the student may choose any of the other psychology courses to fulfill the minor in psychology.

# Public Health Minor

## Required Courses (15 sch)

- PUBH 1301 Essentials of Public Health 3 sch
- PUBH 2301 Essentials of Global Health 3 sch
- PUBH 2330 Essentials of Health Behavior and Health Promotion 3 sch
- PUBH 3330 Essentials of Health Policy and Law 3 sch

## Electives (3 sch)

Choose 1

- SOCI 4362 Sociology of Health and Illness 3 sch

# Reading Minor

Administered by the Department of Literacy, Language, and Special Populations within the College of Education. The Reading Minor allows the student to develop his or her knowledge of the complex processes involved in learning to read and write. The Reading minor is appropriate for prospective teachers seeking to strengthen their background preparation in this critical area. The courses offer students opportunities to work in a variety of contexts with readers at different developmental levels, from diverse linguistic, cultural, and socioeconomic backgrounds.

## Minor Requirements

The total semester credit hours required for a minor in Reading is 18. At least 12 of the credit hours must be at the upper level.

A student must be admitted to the Teacher Education Program before enrolling in the courses designated with an asterisk (\*).

## Choose one of the following courses



- EDUC 3322 Literature in the Classroom 3 sch
- EDUC 4323 Adolescent Literature in the Classroom 3 sch

### Choose four of the following courses

- EDUC 4313 Emergent Literacy 3 sch
- EDUC 4315 Cognition and Biliteracy 3 sch \*
- EDUC 4324 Reading Development in Primary Grades 3 sch \*
- EDUC 4325 Reading in the Middle Grades 3 sch \*
- EDUC 4326 Reading in the Content Areas 3 sch \*
- EDUC 4336 Issues of Multilingualism 3 sch \*
- EDUC 4371 Teaching English Language Arts: Grades 7-12 3 sch \*
- EDUC 4373 Teaching Language Arts and Social Studies: EC-6 3 sch \*
- EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8 3 sch \*

### Required course

- EDUC 4327 Literacy Assessment and Intervention 3 sch \*

## Social Work Minor

Students who minor in Social Work learn a great deal about our society, its problems, its values, and its responses to needs. Students are better informed as citizens, and they are prepared to work intelligently to make our society better. The Social Work minor seeks to enhance students' understanding of social policy and give students a basic understanding of social work practice. The Social Work minor, however, does not prepare students to be professional social workers or to seek state licensure as social workers.

### Minor Requirements

The Social Work minor requires completion of 18 semester credit hours in SOWK courses. The minor requires the following three courses (9 sch):

- SOWK 2361 Introduction to Social Work 3 sch
- SOWK 2320 Social Welfare Policies and Issues 3 sch **Or**
- SOWK 3320 Social Policy Analysis 3 sch
- SOWK 3324 Ethics & Values in Social Work 3 sch
- The student may choose the remaining 9 sch from the social work course offerings, except for the field placement courses, which may be taken only by Social Work majors.

## Sociology Minor

### Minor Requirements (18 sch)

Requirements for a minor in Sociology are 18 semester credit hours of which 12 credits must be junior or senior level courses. SOCI 1301, Introduction to Sociology is required.

## Spanish Minor

### Minor Requirements

Students will elect to either Latin American Literature, Spanish Literature, or Spanish Linguistics.

### Core Courses

- SPAN 3301 Advanced Grammar and Syntax 3 sch
- SPAN 3302 Advanced Composition and Conversation 3 sch
- SPAN 3308 Introduction to Hispanic Literature and Literary Analysis 3 sch
- SPAN 3310 Introduction to Spanish Linguistics 3 sch

### Latin American Literature

Students electing to continue in Latin American Literature will take two (2) additional courses to be chosen from:

- SPAN 4311 Spanish-American Literature I 3 sch
- SPAN 4351 Mexican Literature 3 sch
- SPAN 4352 Mexican-American Literature 3 sch
- SPAN 4389 Selected Topics 3 sch

### Spanish Literature

Students electing to continue in Spanish Literature will take two (2) additional courses to be chosen from:

- SPAN 4301 Spanish Literature I 3 sch
- SPAN 4360 Spanish Golden Age Literature 3 sch
- SPAN 4361 Cervantes' Don Quixote 3 sch
- SPAN 4389 Selected Topics 3 sch

### Spanish Linguistics

Students electing to continue in Spanish Linguistics will take two (2) additional courses to be chosen from:

- SPAN 4331 Spanish Phonetics and Phonemics 3 sch or related courses.

## Special Populations Minor

Administered by the Department of Literacy, Language, and Special Populations within the College of Education. The Special Populations Minor provides insight and understanding into the world of exceptional children, especially primary and secondary school students.

## Minor Requirements

The total semester hours for the minor in Special Populations is 18 credit hours. At least 9 of the credit hours must be at the upper level

### Required Courses:

- PSYC 1301 \*
- PSYC 3341 \* or CHLD 3341\*
- PSYC 3344 \*

\*If these courses are used for credit in a student's major, they may not also be used for credit in the minor, and additional courses must be selected from the listing below.

- EDUC 3352 The Exceptional Child 3 sch Or CHLD 3352 Or PSYC 4341
- EDUC 4310 Early Intervention 3 sch Or CHLD 4310
- EDUC 4352 Collaborative Teaching and Inclusive Practices 3 sch
- EDUC 4356 Behavior Management 3 sch
- KINE 3310 Motor Development 3 sch Or CHLD 3310
- KINE 3330 Physical Activity for the Disabled 3 sch
- PSYC 3303 Principles of Learning 3 sch
- PSYC 4311 Cognitive Psychology 3 sch
- SOCI 4320 Social Stratification 3 sch Or CHLD 4320

## Statistics and Analytics, Minor

The minor is for students who want to study a significant amount of statistics and probability at the upper-division level. This knowledge will assist them in applying proper methods to accurately collect data, employ accurate analysis, and effectively present their results.

### Required Courses (20 sch)

- MATH 2413 Calculus I 4 sch
- MATH 2414 Calculus II 4 sch
- STAT 2301 Introductory Statistics I 3 sch
- STAT 2302 Introductory Statistics II 3 sch
- STAT 3301 Applied Continuous Probability 3 sch
- MATH 3310 Linear Algebra 3 sch

### Elective (3 sch)

Choose one

- STAT 4301 Stochastic Process 3 sch
- STAT 4310 Nonparametric Statistical Methods 3 sch
- STAT 4311 Applied Regression Analysis 3 sch

# Theatre, Minor

The Theatre minor gives the student a broad-based background in the field. The core courses provide foundational knowledge and experiences with the history and practice in theatre including acting, lights and sound, props, costuming, and makeup.

## Required Courses (9 sch)

- THEA 1330 Introduction to Stagecraft 3 sch
- THEA 1351 Introduction to Acting 3 sch
- THEA 2361 Introduction to Theatre 3 sch

## Electives (9 sch)

- ARTS 1316 Introduction to Drawing 3 sch
- THEA 1311 2D-Design 3 sch
- THEA 1312 3D-Design 3 sch
- THEA 3121 Practicum in Stagecraft 1 sch
- THEA 3122 Practicum in Opera and Musical Theatre 1 sch
- THEA 3368 Dance for Theatre 3 sch
- ENGL 3311 Drama: Comedy 3 sch
- ENGL 4305 American Drama 3 sch
- ENGL 4365 Shakespeare 3 sch

\* THEA 3121 and THEA 3122 may be repeated in any combination to earn as many as 9 credits toward the minor.

# Women's Studies Minor

The Women's Studies Minor allows the student who selects it to explore currently and historically the cultural, political and socio-economic status of women. Consult with the College of Arts and Sciences for a list of faculty advisors.

## Minor Requirements

The total semester credit hours required for a minor in Women's Studies is **18**.

SOCI 1301 and SOCI 4317 are required; students must take another 12 hours of coursework distributed among the academic fields offering classes. No more than two courses may come from any area. Courses in the student's major area are excluded from her/his minor choices, except for Sociology majors enrolled in SOCI 1301 and SOCI 4317.

Students choose from the following courses to complete their coursework.

### Art

- ARTS 3301 Women Artists I 3 sch
- ARTS 3302 Women Artists II 3 sch

## English

- ENGL 3332 Literature and Art 3 sch
- ENGL 3325 American Women Playwrights
- ENGL 3335 American Women Novelists 3 sch
- ENGL 3352 Eighteenth-Century Women Poets 3 sch

## History

- HIST 4359 Studies in Women's History 19th Century 3 sch

## Kinesiology

- KINE 4325 Women and Sport

## Leadership Studies

## Psychology

- PSYC 4381 Gender Studies 3 sch

## Sociology

- SOCI 1301 Introduction to Sociology 3 sch
- SOCI 4317 Women's Studies 3 sch
- SOCI 4370 Family Dysfunction and Substance Abuse 3 sch

# Certificates

## Cyber Security Certificate

Students can complete the Cyber Security Program Certificate by taking the required course work, depending on their computer science background. Students must achieve a grade of C or better in the following courses:

### Students with no Computer Science Background

Students with no computer science background need to complete two prerequisite courses (8 sch) in addition to the certificate courses.

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch

### Students with Programming Experience

Students with programming experience need to only complete the certificate program courses to earn the certificate.

### Certificate Courses (17 sch)

- COSC 2420 C Programming 4 sch
- COSC 3310 Digital Computer Organization 3 sch
- COSC 4370 Data Communications 3 sch
- COSC 4375 Intro to Computer Security 3 sch
- COSC 4470 Applied Network Security 4 sch

### Students with Similar Course Credit or Students in the COSC program

Students who have taken similar courses of our certificate program courses need to take our level class test for evaluation. Those who pass the test only need to take the below three courses. Students who fail the test will need to take all five certificate program courses.

- COSC 4370 Data Communications 3 sch
- COSC 4375 Intro to Computer Security 3 sch
- COSC 4470 Applied Network Security 4 sch

## Cyber Security Certificate - Online

### Required Courses (14 sch)

- COSC 1430 Introduction to Computer Science I 4 sch

- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 4375 Intro to Computer Security 3 sch

## Data Science, Certificate

### Required Courses (14 sch)

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 4385 Data Science 3 sch
- COSC 4386 Big Data Analytics 3 sch

## Digital Commerce Certificate

The certificate in Digital Commerce for the BBA offers business students specialized knowledge in the rapidly grown and growing digital industry. The requirement for a Digital Commerce Certificate for BBA is to complete a BBA degree with the inclusion of 4 undergraduate digital marketing courses at UTPB. Students must achieve a grade of "C" or better in the 4 digital courses. Courses must be taken from the following:

### Required Courses (12 sch)

- MRKT 4300 Digital Branding 3 sch
- MRKT 4301 E-Marketing 3 sch
- MRKT 4302 E-Commerce 3 sch
- MRKT 4303 Digital Advertising 3 sch
- MRKT 4304 Digital Marketing Analytics 3 sch
- MRKT 4322 Social Media Marketing 3 sch

## Diversity, Inclusion, and Health Equity Certificate

### Required Courses (18 sch)

- HSHP 4310 Social Determinants of Health 3 sch
- HSHP 4315 Bias Stereotypes and Uncertainty in Clinical Decision Making 3 sch
- HSHP 4320 Interpersonal and Communication Skills 3 sch
- HSHP 4325 Assessment of Health Outcomes and Patient Satisfaction 3 sch
- HSHP 4330 Promotion of Health Literacy 3 sch
- HSHP 4335 Quality Improvement in Diversity and Inclusion 3 sch

## Early Childhood Intervention, Certificate

This undergraduate certificate is designed to allow students graduating from UTPB with a bachelor's degree to also meet content requirements for the Early Intervention Specialist (EIS) credential obtainable from the Texas Department

of Health and Human Services. The certificate requires 18 sch of coursework including 12 required and 6 elective hours.

## Required Courses (12 sch)

- CHLD 3308 Introduction to Early Childhood Education 3 sch
- CHLD 3341 Child/Adolescent Psychology 3 sch
- CHLD 3352 The Exceptional Child 3 sch
- CHLD 4310 Early Intervention 3 sch

## Elective Course (6 sch)

- CHLD 3309 Family and School Interactions 3 sch
- CHLD 3310 Motor Development 3 sch
- CHLD 3342 Development of Creativity 3 sch
- CHLD 4311 Social Development and Learning 3 sch
- CHLD 4314 Language Development in the Young Child 3 sch
- CHLD 4380 Internship in Early Childhood Intervention 3 sch

# Energy Business Certificate

The Certificate in Energy Business for the BBA programs in the College of Business offers business students specialized energy-related business knowledge in various disciplines that is useful in the energy industry. The requirement for the Certificate in Energy Business is to complete a Bachelor of Business Administration (BBA) degree with a major (in accountancy, finance, management, and marketing) with the inclusion of 4 energy-related undergraduate courses at the University of Texas of the Permian Basin.

Students must achieve a grade of "C" or better in the 4 energy-related courses for 12 credit hours. The four energy courses can be selected from the approved list below. Upon completion, the qualified student submits the application form for the Certificate of Energy Business in the College of Business home page. The Certificate in Energy Business appears in the official transcript of the student.

The University Certificate in Energy Business has expanded its offering to:

- Any UTPB BBA graduate
- Any BBA graduate or student seeking a BBA from any accredited 4-year American university

BBA holder may apply for admission as a non-degree seeking transient student and contact Dr. Steve Beach beach\_s@utpb.edu with the Certificate interest.

## Certificate Requirements (12 sch)

- ACCT 4310 Oil and Gas Accounting 3 sch
- FINA 4331 Energy Finance 3 sch
- MNGT 3309 Energy Management 3 sch
- MNGT 4324 Energy Law 3 sch



- MNGT 4325 Environmental Law & Regulation in the Energy Industry 3 sch
  - MNGT 4350 Negotiation 3 sch
  - MRKT 4305 Energy Marketing 3 sch
  - PTEC 3301 Petroleum Fundamentals 3 sch
- Other 3 credit hours of energy courses must be approved by the Coordinator of Energy Business.

## Entrepreneurship, Certificate

### Required Courses (6 sch)

- BUSI 3335 Foundations of Entrepreneurship 3 sch
- BUSI 4310 Raising Entrepreneurial Capital 3 sch

### Elective Course (6 sch)

- MNGT 3318 Small Business Management 3 sch
- MNGT 3380 Managing Technology 3 sch
- MRKT 3304 Small Business Marketing 3 sch
- MRKT 3306 Retailing and Distribution 3 sch
- MRKT 3307 Sales Management 3 sch
- MRKT 4302 E-Commerce 3 sch
- MRKT 4322 Social Media Marketing 3 sch

## Health Informatics and Leadership Certificate

### Required Courses (12 sch)

- NURS 4341 Healthcare Leadership and Policy 3 sch
- NURS 4342 Quality Improvement and Healthcare Systems 3 sch
- NURS 4343 Fiscal and Organizational Leadership 3 sch
- NURS 4344 Informatics and Innovation 3 sch

## Healthcare Management Certificate

The certificate in Healthcare Management gives students specialized knowledge in the healthcare industry. Those earning the certificate are expected to have a basic understanding of business theory and practices gained through meeting prerequisite courses for those required by the certificate. Students must receive a grade of "C" or better in the four healthcare related courses. Total hours required for the certificate in Healthcare Management is 12 hours.

### Three courses must be taken from the following (9 sch)

- ACCT 4334 Accounting for Healthcare 3 sch
- ACCT 3334 Healthcare Management Information Systems 3 sch

**OR**

- MNGT 3334 Healthcare Management Information Systems 3 sch
- FINA 4333 Healthcare Finance 3 sch
- MNGT 4331 Healthcare Management 3 sch
- MNGT 4336 Healthcare Law 3 sch
- MNGT 4337 Quality Improvement in Healthcare 3 sch
- MRKT 4335 Healthcare Marketing 3 sch

## One Additional course (3 sch)

One additional course must be taken from the list above or the following (3 sch)

- COMM 4351 Health Communication 3 sch
- NURS 4250 Nursing Research and Quality Improvement Science 2 sch
- NURS 4290 Population Public Health 2 sch
- PUBH 3330 Essentials of Health Policy and Law 3 sch
- PUBH 4310 Essentials of Environmental Health 3 sch
- PSYC 4307 Health Psychology 3 sch
- SOCI 4362 Sociology of Health and Illness 3 sch

## Information Technology and Security Certificate

### Requirements (15 sch)

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 4415 Database Systems 4 sch

## International Business, Certificate

### International Business Courses

Students must take 12 sch from the following list to be eligible for the Certificate in International Business.

- ECON 4320 International Trade 3 sch
- FINA 4320 International Finance 3 sch
- MNGT 3360 Global Logistics 3 sch
- MNGT 4320 International Management 3 sch
- MRKT 4320 International Marketing 3 sch

# Network and Telecommunications, Certificate

## Requirements (17 sch)

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3310 Digital Computer Organization 3 sch
- COSC 4370 Data Communications 3 sch
- COSC 4375 Intro to Computer Security 3 sch

# Petroleum Technology Certificate

To obtain a Certificate in Petroleum Technology a student must meet the following requirements.

- Meet the requirements for an Applied Arts and Sciences, BAAS with an Industrial Technology track or Industrial Technology, BS.
- Complete PTEC 3301 with a grade of "C" or better.
- The certificate requires a total of 12 credit hours.

## Required Course (3 sch)

- PTEC 3301 Petroleum Fundamentals 3 sch

## Petroleum Technology Courses (9 sch)

- PTEC 3302 Petroleum Fluids and Natural Gas Technology 2 sch
- PTEC 3304 Drilling Technology 3 sch
- PTEC 4301 Petroleum Production Technology 3 sch
- PTEC 4302 Pipeline Technology 3 sch
- PTEC 4304 Wireline, Mud Logging, and Core Analysis 3 sch

## Internship

- ITEC 4392 or BAAS 4393 may be applied toward the certificate if the work experience is petroleum industry related.
- Petroleum Engineering (PENG) courses taken at UTPB may be substituted with department approval.

# Software Development, Certificate

## Requirements (15 sch)

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3315 Information Systems and Security 3 sch

- COSC 4485 Mobile Application Development 4 sch

## Spanish for Emergency Responders Certificate

Students are required to have completed the intermediate level of Spanish: four (4) years of high school Spanish or Spanish AP, or intermediate college level courses listed in transcripts, or by providing an intermediate Spanish proficiency certificate from any accredited language school. Students with no validated proficiency or heritage speakers may demonstrate competence through the Spanish CLEP placement test. Students admitted to the program may address any foreign language deficiency by taking college-level Spanish language courses to meet the intermediate level.

### Requirements (9 sch)

- SPAN 3332 Spanish for Healthcare Professionals 3 sch
- SPAN 3331 Advanced Conversation and Public Speaking 3 sch  
Or
- SPAN 3301 Advanced Grammar and Syntax 3 sch
- SPAN 3321 Hispanic Civilization 3 sch

## Spanish Language and Culture Certificate

The purpose of the Spanish Certificate is to prepare students who wish to gain a fair command of the Spanish language and understand the culture of the Spanish-speaking world. This certificate is appropriate for students with studies in an area related to the use of the Spanish language. Students who complete this certificate will be able to use the language for communication with Spanish-speaking colleagues or customers. Students could include the Certificate on their resume indicating a conversational level of Spanish language proficiency. The Certificate helps highlight to employers both in the U.S. and in other countries a students' Spanish language ability and communication skills.

### Requirements

1. Intermediate level of proficiency. Students wishing to pursue a Certificate in Spanish must satisfy the intermediate language requirement: SPAN 2311 and SPAN 2312 . Students may also meet this requirement by passing a CLEP test at the approved level.
2. Three (3) 3000-level courses one of which must be SPAN 3321. Courses must be taken for a letter grade, (grade cannot be Pass/Fail or below a C). At the discretion of the Spanish Program Representatives, students who study abroad during the academic year (including the summer) may count one pre-approved course towards the certificate.
3. An average grade of "C" or above is required across all three courses.
4. Students who decide to continue Spanish studies to pursue a minor or a major in Spanish, will not be granted the Certificate.

# Website Design and Development, Certificate

## Requirements (15 sch)

- COSC 1430 Introduction to Computer Science I 4 sch
- COSC 2430 Introduction to Computer Science II 4 sch
- COSC 3315 Information Systems and Security 3 sch
- COSC 4455 Multimedia and Web Development 4 sch

# Faculty

Contact information for faculty members can be found on the UT Permian Basin directory  
<https://www.utpb.edu/directory/index>

**Harold Abrams**, Associate Professor of Public Administration.  
BA, Colgate University; MS, University of New York at Stony Brook, PhD(1991), New York University.

**Perla Abrego**, Associate Professor of Spanish.  
BA Escuela Normal Superior (Mexico); MA Universidad de Antiquia (Columbia); PhD (2011), Vanderbilt University.

**Alissa R. Adams**, Assistant Professor of Art History.  
BA, University of Delaware; MA, PhD (2018) University of Iowa.

**Wael Al-Sawai**, Assistant Professor of Mathematics.  
BS, Yarmouk University; MS, Middle East Technical University, MS Worcester Polytechnic Institute; PhD (2011), Northeastern University, PhD (2018) University of South Florida.

**Cynthia Anderson**, Assistant Professor of Education.  
BSED, Texas State University; MEd, University of Houston-Victoria; PhD (2020), St. Mary's University.

**Sophia Andres**, Professor of English and Fellow in the Kathlyn Cospes Dunagan Professorship in Humanities.  
BA, MA, San Jose State University, California; PhD (1985), University of Edinburgh, Scotland.

**Jason Arzola**, Lecturer of Mathematics.  
BS, Old Dominion University, MA, University of Texas Permian Basin.

**Ethel Arzu**, Assistant Professor of Education.  
BS, University of Belize; MEd, EdD (2013), University of North Florida.

**J.C. Ausmus** Assistant Professor of Education.  
BA, University of Kentucky; MA, MS, Ball State University; PhD (2022), Auburn University.

**Maria Avalos**, Associate Professor of Education  
BA, Southwestern University; MEd, Texas State University; PhD, University of Texas at Austin.

**Theppawut I. Ayudhya**, Assistant Professor of Chemistry.  
PhD (2019), University of South Carolina.

**Rebecca Day Babcock**, Professor of English and William and Ordelle Watts Professor.  
BA, MA, University of Massachusetts at Boston; PhD (2005), Indiana University of Pennsylvania.

**Kevin Badgett**, Associate Professor of Education  
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**Katelin Barron**, Lecturer in Management  
BBA, MBA, University of Texas Permian Basin, DBA (2022), Liberty University

**Omar A. Beg**, Assistant Professor of Electrical Engineering  
PhD (2017), University of Texas at Arlington, Arlington, TX

**Melaku Bogali**, Senior Lecturer of Physics.  
MS, New Mexico State University; PhD (2013), University of Texas El Paso .

**Robyn Braun**, Assistant Professor of Kinesiology.  
BS, University of Florida, MS, Barry University, PhD (2013) Florida State University.

**Marsha Bridges**, Lecturer of Education.  
BS, University of Tulsa; MA (2009), University of Texas Permian Basin.

**Scott A. Carson**, Professor of Economics.  
BS, MS, Brigham Young University; PhD (1998) University of Utah.

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BA, Williams College; MA, University of North Carolina, Charlotte; PhD (2003) Ohio University.

**Wei-Ju Chen**, Assistant Professor of Psychology.  
BS, MA, San Jose State University; PhD (2017) University of Wisconsin-Milwaukee

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**Jeremy Cox**, Assistant Professor of Communication.  
BA, University of Texas Permian Basin, MA, Texas State University; PhD (2017) Pennsylvania State University.

**Mei-Zhen Cui**, Professor of Vascular Biology.  
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**Larry G. Daniel**, Dean of the College of Education and Professor of Education.  
BA, Southeastern University; MEd, PhD (1989), University of New Orleans.

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**Fesfaye Degefa**, Lecturer of Chemistry and General Chemistry Lab Coordinator.  
BS, MS, Addis Abab University (Ethiopia); PhD (2005), University of Osnabrueck (Germany).

**Alanna Dennison**, Assistant Professor of Kinesiology and Clinical Education Coordinator.  
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**Craig Emmert**, Associate Professor of Political Science.  
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**Tomas Espinosa**, Assistant Professor of Education.  
BS, MEd, University of Texas-El Paso; PhD (2019), Texas A&M University-Corpus Christi.

**Frank Eychaner**, Associate Professor of Music.  
DMA (2009) University of Kentucky – Lexington.

**Paul Feit**, Professor of Mathematics.  
BS, Harvard University; PhD (1985), Princeton University.

**Marlon L. Fick**, Associate Professor of English.  
BA, The University of Kansas, MA, New York University; PhD (1992) The University of Kansas

**Stephanie Fife**, Lecturer of Psychology.  
BA, MA (2009), The University of Texas of the Permian Basin.

**Sherron Franks-Meeks**, Instructor of Nursing.  
BSN, University of Texas Arlington, BA, MPA-Leadership, University of Texas Permian Basin.

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BA, American Public University; MEd, PhD (2022), Northern Arizona University.

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BA, Penn State Erie; MA, Edinboro University of Pennsylvania; PhD (2014) Louisiana State University.

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MS in Analytical Chemistry (2013), Texas Tech University

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**Minerva Gonzales**, Assistant Professor of Nursing.  
BSN, Texas Tech University Health Science Center; MSN, Angelo State University; DNP, Chamberlain College of Nursing (2016).

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BA, MS Texas Tech University; PhD (2012) The University of Texas at Arlington

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**Paul J. Haensly**, Associate Professor and Coordinator of Finance, And Chair of Undergraduate Studies.  
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**William F. Harlow**; Professor of Communication.  
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BS, The University of Texas, MEd, The University of St. Thomas, MBA, The University of Texas Permian Basin, EdD (2000), The University of Houston

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BA, Abilene Christian University; MA and PhD (2015) Texas Tech University.

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**Todd Richardson**, Professor of English.  
BA, College of Wooster; MA, University of Delaware; PhD (2002), University of South Carolina.

**R. Nicole Rogeau-Vanderford**, Senior Lecturer in English.  
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**Kara Rosenblatt**, Associate Professor of Education,  
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**Pinyarat Sirisomboonsuk**, Assistant Professor of Management

BE, Chulalongkorn University; MBA, Oregon State University; PhD (2015) Texas Tech University

**David Sparks**, Assistant Professor of Education.

BS, Texas A&M University; MS, Texas A&M University-Texarkana; EdD (2013), Texas A&M University-Commerce.

**R. Douglas Spence**, Associate Professor of Biology.

BS, Houston Baptist University; MS, PhD (1986), Texas A&M University.

**Lorraine T. Spickermann**, Lecturer of Education.

BA, MA (1986) University of California at Berkeley.

**Roland Spickermann**, Associate Professor of History.

BA, University of California at Berkeley; MA, PhD (1994), University of Michigan.

**Christopher Stanley**, Associate Professor of Art

BSE/BFA, University of Kansas; MFA (1991), Washington State University.

**Joe Stauffer**, Associate Professor of Management

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**Sheena B. Stief**, Lecturer in English.

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**Carol Sullivan**, Associate Professor of Accounting

BBA, MS, PhD (1992) Texas A&M University

**Jennifer Swendsen**, Instructor of Nursing.

MSN (2010) Walden University.

**Robert Trentham**, Research Professor of Geology.

BS, MA, City College of New York; DGS (1981) The University of Texas at El Paso.

**Rod Uzat**, Assistant Professor of Education.

BEd, University of Manitoba, Canada; MEd, PhD (1999), University of Southern Mississippi.

**Nima Vafai**, Assistant Professor of Finance

BS, K.N. Toosi University of Technology; MS, University College of Nabi Akarm; MA, The University of Akron; PhD (2021) The University of Texas at Arlington

**Marcos Velasquez**, Assistant Professor of Finance

BA, MBA, The University of Florida; PhD (2022) Florida International University

**Sumit Verma**, Associate Professor of Geology.

BS, University of Allahabad, India; MS, Indian School of Mines in Dhanbad, India; PhD (2015), University of Oklahoma.

**Vladan Vuckovic**, Lecturer of Computer Science

BS, The University of Texas of the Permian Basin; MS (2012), The University of Texas of the Permian Basin.

**Linda Gail Ward**, Senior Lecturer in Communication.

BA, MA, Texas State University; PhD, University of North Texas.

**Mark Wildermuth**, Professor of English and Fellow in the Kathlyn Cosper Dunagan Professorship in Humanities.

BA, MA, George Mason University; PhD (1991), University of Wisconsin-Madison.

**Tara Wilson**, Assistant Professor of Education.  
BS, MEd, EdD (2015) Sam Houston State University.

**Michelle Womack**, Instructor in Nursing  
BSN, Texas Tech Health Science Center, MSN, University of Phoenix (2003)

**Heng Xie**, Assistant Professor of Management  
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**Chumbao Xu**, Assistant Professor of Accounting  
BS, Xiamen University; MS, The University of Alaska; MS The University of Florida; PhD (2020) Texas Tech University

**Xuemin Xu**, Professor of Biology.  
BS, Jilin University; MS and PhD (1989), Tokyo Institute of Technology.

**Eric Yeager**, Director of Education Field Experiences and Clinical Practice.  
BS, MS, EdD (2005), Texas A&M University-Corpus Christi.

**Douglas Young**, Senior Lecturer of Physics.  
PhD (1998), Texas Tech University.

**Quan Yuan**, Associate Professor of Computer Science.  
PhD (2009), Florida Atlantic University.

**Mortaza Zare**, Assistant Professor of Management  
MBA, PhD (2017), New Mexico State University

**Michael Zavada**, Professor of Biology/Geosciences  
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**Jingbo Zhang**, Assistant Professor of Marketing  
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**Xinyun Zhu**, Professor of Mathematics  
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**Sebahattin Ziyamak**, Associate Professor of Sociology.  
BS, Mimar Sinan University, Turkey; MA, University of Houston; PhD (2013), University of North Texas.

**Mohammed K. Zobaa**, Assistant Professor of Geosciences.  
BS, MS, Benha University, Egypt; PhD (2011), Missouri University of Science and Technology.

**Donald M. Allen**, Biology Emeritus, 1977- 2020

**Thomas Dynneson**, Education, Emeritus, 1973-1995

**Doug Hale**, Mathematics, Emeritus, 1973-2015

**Lois Hale**, Kinesiology, Emeritus, 1974-2015

**Paul Hodges**, Economics Emeritus, 1972-2018

**Patricio T. Jaramillo**, Education, Emeritus, 1974-2005

**Edwin Kurtz**, Life Science, Emeritus, 1972-1989

**Stanley Marcus**, Art, Emeritus, 1973-1992

**James A. Nickel**, Mathematics and Computer Science, Emeritus, 1972-1993

**Pamela Price**, Art, Emeritus, 1993-2009

**Robert Colbert Rhodes**, Sociology, Emeritus, 1975-2002

**Michael Robinson**, Chemistry, Emeritus, 1976-2014

**Frank N. Samponaro**, History, Emeritus, 1974-1999.

**William Watts**, Business, Emeritus, 1976-1994.

# Courses

## Arts

### **ARTS 1301 Art Appreciation**

Semester Credit Hours: 3 sch The study of art, its role in society, the creative process and standards of artistic judgment. Fall, Spring, Summer

### **ARTS 1303 Art History Survey I**

Semester Credit Hours: 3 sch A study of the history of art from prehistoric to the Renaissance. Fall

### **ARTS 1304 Art History Survey II**

Semester Credit Hours: 3 sch A study of the history of art from the Renaissance to the post-modern era. Spring

### **ARTS 1311 Two-Dimensional Design**

Semester Credit Hours: 3 sch The study of design concepts including color theory, value scales and perspective. Fall  
THEA 1311

### **ARTS 1312 Three-Dimensional Design**

Semester Credit Hours: 3 sch Exploration of the visual structure and organization of three-dimensional forms in a variety of materials, with an emphasis on the development of creative and critical skills, object and material processing, and concept development. Spring THEA 1312

### **ARTS 1316 Introduction to Drawing**

Semester Credit Hours: 3 sch Open to non-art majors. The study of basic drawing techniques using black and white media. Fall

### **ARTS 2310 Figure Composition I**

Semester Credit Hours: 3 sch An introduction to figure drawing using academic approaches with black and white media. Spring

### **ARTS 2348 Digital and Lens Imagery**

Semester Credit Hours: 3 sch The computer, scanner and camera (digital or analog) will be used to create digital and lens based art. Image making, light, print-media design, time-based art and imaging for the web will be covered in this course. Current computer design programs, cameras and software will be introduced in this course. Spring

### **ARTS 2358 Graphic Art: Typography**

Semester Credit Hours: 3 sch This course will explore basic vocabulary theories, principles, technical methods, and related typography topics. Traditional and computer tools will be used to create and solve problems in lettering, typography, type as symbols and page layouts. Fall

### **ARTS 2368 Animation I**

Semester Credit Hours: 3 sch Traditional and digital techniques will be used to create 2D animation, storytelling, video, and audio editing techniques will be emphasized. Fall, Spring

### **ARTS 2378 Introduction to Game Design**

Semester Credit Hours: 3 sch This is an intense course that trains students to design new games that are not digital. Concepts of game design will be explored by designing card games, board games, and physical games. The games will be tested during the course, current design software will be used in the course.

### **ARTS 3193 Installation Apprenticeship**

Semester Credit Hours: 1 sch A hands-on experience installing exhibitions in the university gallery. Students will learn proper museum procedures for uncrating, condition reports, installation, and repacking of art work. Fall

### **ARTS 3301 Women Artists I**

Semester Credit Hours: 3 sch The study of women artists from ancient times to the early 1900s. Prerequisite(s): ARTS 1303 and ARTS 1304. Fall

### **ARTS 3302 Women Artists II**

Semester Credit Hours: 3 sch The study of women artists from the early 1900s to the present. Prerequisite(s): ARTS 1304 Spring

### **ARTS 3303 American Art I**

Semester Credit Hours: 3 sch This course is a survey of the painting, sculpture, photography, architecture, and decorative arts of the United States from pre-colonization through the era of the Civil War. The subject matter concentrates on mainland United States incorporating the arts of Native Americans as well as a variety of immigrant cultures such as European Americans, African-Americans, Asian-Americans and Mexican-Americans. Prerequisite(s): ARTS 1303 and HIST 1301 Spring

### **ARTS 3305 Modern Hispanic Art and Its Foundation**

Semester Credit Hours: 3 sch A study of major Mexican and South American artists from late 19th Century to the present, their essential options and connections to Pre-Columbian foundations. Prerequisite(s): ARTS 1304 Offered odd years. Fall

### **ARTS 3306 Theoretical Approaches to Art History**

Semester Credit Hours: 3 sch This course will introduce students to ways of thinking and writing about Art in terms of critical theory. Prerequisite(s): ARTS 1304 and ENGL 1302. Spring

### **ARTS 3307 Art History Study Abroad**

Semester Credit Hours: 3 sch The study of Art History through preliminary face-to-face instruction and travel in various countries. This course will not count as a required Art History course but may count as an art elective. Summer

### **ARTS 3310 Figure Composition II**

Semester Credit Hours: 3 sch Figure drawing based on personal response and interpretation of the model with various colored media. Prerequisite(s): ARTS 1311 , ARTS 1316, and ARTS 2310. Fall

### **ARTS 3311 Drawing for Non-Art Majors**

Semester Credit Hours: 3 sch Basic drawing techniques using black and white media. An upper level elective open to juniors and above. (Not for art majors.)

### **ARTS 3320 Painting**

Semester Credit Hours: 3 sch The study of basic painting techniques: preparations of ground and support for a painting, color and paint handling, the chemistry of paint and pigments including paint modifiers. Prerequisite(s): ARTS 1311, ARTS 1316, and ARTS 2310. S Spring

### **ARTS 3323 Painting for Non-Art Majors**

Semester Credit Hours: 3 sch A course in painting for non-art majors including historic overview of painting, basic painting techniques, appropriate painting surfaces, construction of canvases, brushes, chemistry of paint, and color handling. (Not for Art Majors.) Spring

### **ARTS 3326 Digital Photography for Non Art Majors**

Semester Credit Hours: 3 sch The course will investigate the current trends in digital photography. Students will develop technical skills using DSLR cameras and current digital software while exploring themes in contemporary photography and conceptual approaches to art and image making.

### **ARTS 3331 Sculpture**

Semester Credit Hours: 3 sch Develops broad understanding and use of sculptural language through exploration with various materials, techniques and processes as they relate to the development of sculptural ideas.

Prerequisite(s): ARTS 1312 or permission by petition. Fall

### **ARTS 3340 Ceramics for Non-Art Majors**

Semester Credit Hours: 3 sch A survey of ceramic processes for the non-art major, including hand-building and wheel-throwing. An upper level elective open to juniors and above. (Not for art majors.) Fall

### **ARTS 3341 Ceramic Form**

Semester Credit Hours: 3 sch A course in ceramic construction with option on various aspects of ceramic building processes, glaze applications and firing procedures. Prerequisite(s): ARTS 1312 or Permission by petition. Spring

### **ARTS 3342 Low-fire Ceramics**

Semester Credit Hours: 3 sch A course emphasizing low-fire clay bodies, glazes and kiln techniques including raku and pit firing. Prerequisite(s): ARTS 1312 Fall

### **ARTS 3346 Digital Photography**

Semester Credit Hours: 3 sch The course will investigate the current trends in digital photography. Students will develop technical skills using DSLR cameras and Adobe Photoshop while exploring themes in contemporary photography and conceptual approaches to art and image-making. Fall

### **ARTS 3348 Graphic Design: Print**

Semester Credit Hours: 3 sch Introduction to layout design with the main emphasis on type, corporate identity, package and exhibition design. Projects presented to professional clients. Current design based software will be introduced in this course. Prerequisite(s): ARTS 1311, ARTS 1316, and ARTS 2358 or Permission by petition. Spring

### **ARTS 3350 Relief Printmaking**

Semester Credit Hours: 3 sch A course exploring various relief printmaking methods, including woodcuts, linocuts and wood engraving. Prerequisite(s): ARTS 1311 and ARTS 1316 or Permission by petition. Spring

### **ARTS 3351 Silkscreen**

Semester Credit Hours: 3 sch Processes include building and preparing the silkscreen, cut paper frisket and various stencil techniques. Prerequisite(s): ARTS 1311 and ARTS 1316 or Permission by petition. Spring

### **ARTS 3355 Print and Design History**

Semester Credit Hours: 3 sch This course deals with the history of print and design from Asian, medieval periods to our current contemporary styles and techniques. Prerequisite(s): ARTS 1301 or ARTS 1303 or ARTS 1304 Fall, Spring HUMA 3355

### **ARTS 3358 Digital Illustration**

Semester Credit Hours: 3 sch Use a variety of contemporary and experimental digital media to create illustrations. Prerequisite(s): ARTS 1311, ARTS 1316, and ARTS 2358 or instructor permission. Spring

### **ARTS 3360 Papermaking/Bookmaking**

Semester Credit Hours: 3 sch Creating handmade paper using various materials and techniques. Books will be made from the paper. Open to non- art majors. Prerequisite(s): ARTS 1311 or ARTS 1312 Summer

### **ARTS 3368 Digital 3D Modeling**

Semester Credit Hours: 3 sch The study of 3D animation including 3D modeling techniques, key-framing and graph editing, shading, lighting, and rendering. Prerequisite(s): ARTS 1311, ARTS 1312, ARTS 2348, ARTS 2368 or permission from instructor Fall

### **ARTS 3378 Animation II**

Semester Credit Hours: 3 sch Exploration of animation techniques including 2D and 3D creative process, lab application related to drawing, 2D digital animation, visual effects and interactive media. Prerequisite(s): ARTS 2348, ARTS 2358, and ARTS 2368 or permission from instructor Spring



### **ARTS 3389 Selected Topics, Studio**

Semester Credit Hours: 3 sch Undergraduate studio courses which will be offered only once or will be offered infrequently or which are developed before a regular listing in the catalog. Fall, Spring

### **ARTS 4300 Concepts in Modern Art**

Semester Credit Hours: 3 sch This course focuses on the first half of the twentieth century and investigates the underlying ideas on which today's art is based. Prerequisite(s): ARTS 1304 Fall, Spring

### **ARTS 4301 Art since 1940**

Semester Credit Hours: 3 sch This course focuses on the art of the latter part of the twentieth century until the present. Prerequisite(s): ARTS 1303 Fall

### **ARTS 4302 History of African American Art**

Semester Credit Hours: 3 sch This course is a survey of the arts of African Americans in the United States. It covers the portrayal of African Americans as well as a chronological study of the contributions African Americans artists have made to the overall arts of this country. Prerequisite(s): ARTS 3301 Fall HUMA 4303

### **ARTS 4304 History of Nineteenth Century Art**

Semester Credit Hours: 3 sch This course is a survey of European visual arts (and some from the United States) from the post revolutionary era to the 1900 World's Fair. Emphasis is placed on stylistic developments (Romanticism, Realism, Academicism, Impressionism, and Post-Impressionism) within historical and cultural contexts. Painting, sculpture, photography, and architecture will be included in this survey. Prerequisite(s): ARTS 1301 or ARTS 1304 or HIST 2322. Fall

### **ARTS 4305 History of Renaissance Art**

Semester Credit Hours: 3 sch This course is a study of the visual arts of Italy and Northern Europe from approximately 1400 to 1600 CE. A variety of artistic media will be discussed and analyzed in their reciprocal relations: frescoes, mosaics, sculpture, architecture, miniatures, etc. Using examples from these media, artistic and cultural trends will be examined and compared. Prerequisite(s): ARTS 1303 or HIST 2321. Fall, Spring

### **ARTS 4310 Creative Drawing**

Semester Credit Hours: 3 sch Drawing based on creativity and personal imagery using various media and approaches. Prerequisite(s): ARTS 1311, ARTS 1316, and ARTS 2310. Fall

### **ARTS 4311 Advanced Drawing I**

Semester Credit Hours: 3 sch A course designed for students wishing to develop advanced skills in drawing using various media and approaches. Prerequisite(s): ARTS 3310 and ARTS 4310 Fall

### **ARTS 4312 Advanced Drawing II**

Semester Credit Hours: 3 sch Continuation of Advanced Drawing I with development of personal imagery and techniques. Prerequisite(s): ARTS 4311. Fall

### **ARTS 4320 Advanced Painting I**

Semester Credit Hours: 3 sch A course designed for students wishing to develop advanced skills in painting using a particular painting medium. Prerequisite(s): ARTS 1311, ARTS 1316, ARTS 2310 and ARTS 3320. Spring

### **ARTS 4321 Advanced Painting II**

Semester Credit Hours: 3 sch Continuation of ARTS 4320 Advanced Painting I emphasizing the development of personal imagery and painting techniques. Prerequisite(s): ARTS 4320. Spring

### **ARTS 4330 Sculpture: The Human Form**

Semester Credit Hours: 3 sch Formal and alternative methods of figurative sculpture using traditional clay and plaster rendering. Prerequisite(s): ARTS 1312 or permission by petition. Fall

### **ARTS 4333 Advanced Sculpture**

Semester Credit Hours: 3 sch A course allowing students to develop advanced technical knowledge in a variety of sculptural media while developing a personal vision and individual approach to the use of the medium. Prerequisite(s): ARTS 3331 or Permission by petition Spring

### **ARTS 4335 New Media**

Semester Credit Hours: 3 sch Examines time-based artwork in the context of installation and performances through critiques, readings, and slideshows, students will learn how to create meaning with space. This course will cover basics of video editing projection design and practices in performance. Fall

### **ARTS 4336 Audio/Video Production**

Semester Credit Hours: 3 sch Studies related to audio and video used for perceptual and conceptual development. Editing equipment will be available for projects that require production. Prerequisite(s): ARTS 2348 or permission from instructor Spring

### **ARTS 4340 Medium to High-Fire Ceramics**

Semester Credit Hours: 3 sch A course emphasizing the use of gas fired kilns and medium to high fire ceramics. Prerequisite(s): ARTS 1312 or Permission by petition Fall, Spring

### **ARTS 4342 Clay and Glazes**

Semester Credit Hours: 3 sch The scientific approach to the formulation of clay bodies and glazes. Prerequisite(s): ARTS 1312 or Permission by petition. Fall

### **ARTS 4344 A Survey of World Ceramics**

Semester Credit Hours: 3 sch This course will follow the 10,000 year history of the use of clay as both a functional and artistic medium. Our journey will begin during the Neolithic period and end with the ceramic tiles on the Space Shuttle.

### **ARTS 4346 Advanced Photography**

Semester Credit Hours: 3 sch This course combines development of advanced camera-based skills with increased awareness of current trends in photography. Techniques to be studied include advanced studio and location lighting, advanced Adobe workflow, and color applications. Students will analyze samples of contemporary photography and develop their critical skills. Prerequisite(s): ARTS 3346 Fall, Spring

### **ARTS 4348 Graphic Design: Web**

Semester Credit Hours: 3 sch Introduction to layout design and graphics used on the world wide web. HTML (Hyper Text Mark Up Language) and CSS (Cascading Style Sheets) will be used in this course. Prerequisite(s): ARTS 1311, ARTS 1316 and ARTS 2358 or Permission by petition Odd years. Fall

### **ARTS 4350 Intaglio**

Semester Credit Hours: 3 sch A course exploring various printmaking techniques with metal plates. Includes plate preparation, drypoint, etching, soft ground, printing and presentation of prints. Prerequisite(s): ARTS 1311 and ARTS 1316 or Permission by petition Fall

### **ARTS 4351 Lithography**

Semester Credit Hours: 3 sch Processes include drawing with various lithographic materials, etching and printing lithographic stones and plates. Prerequisite(s): ARTS 1311 and ARTS 1316 or Permission by petition Fall

### **ARTS 4352 Advanced Printmaking I**

Semester Credit Hours: 3 sch A course designed for further exploration of a particular printmaking medium and emphasizing technical skills. Prerequisite(s): ARTS 3350 or ARTS 3351 or ARTS 4350 or ARTS 4351 or Permission by Petition Fall, Spring

### **ARTS 4353 Advanced Printmaking II**

Semester Credit Hours: 3 sch Continuation of Advanced Printmaking I with particular option on combining printmaking processes and techniques to create personal imagery. Prerequisite(s): ARTS 4352 or Permission by petition. Spring

### **ARTS 4389 Selected Topics-Lecture**

Semester Credit Hours: 3 sch The study of various topics not regularly offered. Fall, Spring

### **ARTS 4391 Contract Study**

Semester Credit Hours: 3 sch A course for independent study in an area with instructor supervision when other options are not available. Fall

### **ARTS 4392 Internship**

Semester Credit Hours: 3 sch For Art Majors and Minors in Graphic Design only. An internship with an appropriate organization using skills learned as an art major or a graphic design minor. Prerequisite(s): Senior standing only and permission of the supervising instructor. Summer

### **ARTS 4393 BFA Seminar**

Semester Credit Hours: 3 sch A culminating experience for the BFA student, taught as an independent study. At the conclusion of this semester the student will stage an exhibition of their own work, and will have the professional tools (resume and portfolio) to pursue a career in art or pursue a graduate degree. Prerequisite(s): Senior status, BFA majors only. Fall

## **Accounting**

### **ACCT 1301 Accounting for Non-Business**

Semester Credit Hours: 3 sch Students will learn some basic principles of financial accounting as applied to small business operation. Topics include basic financial statements like the balance sheet and income statement, the accounting cycle, payroll, basic inventory and cost of goods sold, accounts receivable and accounts payable. Non-business majors only. Fall, Spring

### **ACCT 2301 Principles of Financial Accounting**

Semester Credit Hours: 3 sch Introduction to concepts and principles of accounting, to include: recognition, analysis, measurement and recording of monetary information in business transactions. Emphasis of the course will be on understanding financial reporting for external users. Prerequisite(s): MATH 1314 or higher. Fall, Spring, Summer

### **ACCT 2302 Principles of Managerial Accounting**

Semester Credit Hours: 3 sch Introduction to the use of financial and non-financial accounting information for management, decision making, and control. Prerequisite(s): ACCT 2301 and MATH 1324 or equivalent. Fall, Spring, Summer

### **ACCT 3301 Intermediate Accounting I**

Semester Credit Hours: 3 sch In-depth study of accounting theory, generally accepted accounting principles and the techniques involved in measuring, recording, summarizing and reporting financial data for business organizations. Prerequisite(s): ACCT 2301 with a grade of "B" or better or ACCT 3310 with a grade of "C" or better. Fall, Spring, Summer

### **ACCT 3302 Intermediate Accounting II**

Semester Credit Hours: 3 sch Continuation of the in-depth study of accounting principles and techniques that was started in ACCT 3301. Prerequisite(s): ACCT 3301 with a grade of "C" or better. Fall, Spring, Summer

### **ACCT 3303 Cost Accounting Principles**

Semester Credit Hours: 3 sch The study of the accumulation, measurement, assignment and analysis of costs to satisfy management objectives for planning, control and evaluation. Prerequisite(s): MATH 1325, or its equivalent, ACCT 2301 and ACCT 2302 with a grade of "C" or better. Fall, Spring

### **ACCT 3305 Federal Income Tax**

Semester Credit Hours: 3 sch Introduction to the federal tax system as it applies to individuals, corporations and partnerships. Current income tax concepts and research methods are introduced for use in problem solving and planning in taxation. Prerequisite(s): ACCT 2301 and ACCT 2302. Fall, Spring

### **ACCT 3310 Accounting for Business Decision-Makers**

Semester Credit Hours: 3 sch Topics include Income Statements, Balance Sheets, Statements of Cash Flows and extended coverage of issues related to Current Assets, Long-term Assets, Current Liabilities, Bonds, and Shareholder's Equity. Prerequisite(s): ACCT 2301 and ACCT 2302 Fall, Spring, Summer

### **ACCT 3333 Information System Fundamentals**

Semester Credit Hours: 3 sch Introduction to the organizational and managerial foundations of information systems. The role of information systems in enhancing business processes and management decision making is emphasized. Students experience use of business application software in problem solving. Prerequisite(s): BUSI 2345 Fall, Spring, Summer Cross listed with MNGT 3333.

### **ACCT 3334 Healthcare Management Information Systems**

Semester Credit Hours: 3 sch A survey of the management information systems used in the healthcare industry and the role of information systems in the efficient operation of healthcare services. The course will also highlight current regulatory and social issues, patient information and the use of information technology in healthcare. Prerequisite(s): Junior Standing Fall MNGT 3334

### **ACCT 4300 Advanced Accounting**

Semester Credit Hours: 3 sch Development of the principles and techniques of accounting for business combinations and consolidations, partnerships and multinational business organizations. Prerequisite(s): ACCT 3301 and ACCT 3302 with grades of "C" or better. Spring

### **ACCT 4304 Governmental and Not-for-Profit Accounting**

Semester Credit Hours: 3 sch Study of accounting theory and applications related to financial data accumulation and reporting in governmental, hospital, university and other not-for-profit organizations. Prerequisite(s): ACCT 3301 with a grade of "C" or better and concurrent enrollment or successful completion of ACCT 3302. Fall

### **ACCT 4306 Auditing**

Semester Credit Hours: 3 sch Fundamentals of assurance services are covered including risk analysis, evaluation of internal control, audit planning, testing and reporting. Prerequisite(s): The following courses with a grade of "C" or better: ACCT 3301, and either ACCT 3302 or ACCT 4311 Fall, Spring

### **ACCT 4310 Oil and Gas Accounting**

Semester Credit Hours: 3 sch Accounting and taxation principles and procedures for the petroleum industry. Topics include exploration, leasing, drilling and production problems. Prerequisite(s): ACCT 3301 with a grade of "C" or better or ACCT 3310 with a grade of "C" or better. Summer

### **ACCT 4311 Accounting Information Systems**

Semester Credit Hours: 3 sch A systems approach to evaluate, plan, and implement accounting information systems. Includes the analysis of and use of appropriate technology. Prerequisite(s): ACCT 3301 or ACCT 3310 and ACCT 3333 Fall, Spring

### **ACCT 4314 Accounting Research**

Semester Credit Hours: 3 sch Research applications for solving complex accounting and reporting issues including both financial and tax accounting cases. Presentation materials and papers showing research findings are required. Prerequisite(s): ACCT 3301 and ACCT 3302 Spring

### **ACCT 4320 Forensic Accounting/Fraud Examination**

Semester Credit Hours: 3 sch A conceptual approach to forensic accounting/fraud examination. Topics include legal environment for forensic accountants, professional and engagement responsibilities, gathering evidence, analysis of financial statements, business valuation, and white collar crime cases. Prerequisite(s): ACCT 3301 Summer

### **ACCT 4334 Accounting for Healthcare**

Semester Credit Hours: 3 sch A survey of both financial and managerial accounting principles in the healthcare industry. The course will cover topics such as healthcare insurance billings and reimbursement methodologies as well as organizational costing and financial analysis. Prerequisite(s): ACCT 2301 Fall

### **ACCT 4340 Financial Statement Analysis**

Semester Credit Hours: 3 sch An integrative course using ratio and trend analysis to evaluate a company's financial position through time, among its domestic and international industry competitors and within the global economy. Accounting recognition and disclosure requirements used to interpret publicly available information and apply conclusions to investment and lending decisions. Relevant macroeconomic and financial information resources applied. Prerequisite(s): ACCT 3301 or ACCT 3310, and FINA 3320. Summer

### **ACCT 4389 Selected Topics in Accounting**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. Prerequisite(s): varies.

### **ACCT 4391 Contract Study in Accounting**

Semester Credit Hours: 3 sch An individual independent study course or research project that addresses a topic not offered in the curriculum. Prerequisite(s): varies.

### **ACCT 4392 Internship**

Semester Credit Hours: 3 sch A supervised field experience as an accounting professional that enables the student to explore career options. Internship must involve work that is substantially accounting in nature with job responsibilities similar to those that a full-time employee would face. May be taken only once for credit. Prerequisite(s): ACCT 3301, ACCT 3302, and either ACCT 3303 or ACCT 3305 with grades of "C" or better and three additional hours of upper-level accounting; minimum GPA of 2.5 overall and 2.75 in the major and permission of academic advisor and faculty internship advisor. Fall, Spring, Summer

## **Astronomy**

### **ASTR 1101 Descriptive Astronomy Lab**

Semester Credit Hours: 1 sch A laboratory course in which students complete a variety of hands-on computer based activities that explore the topics of cycles in the sky; astronomical history; the birth, life, and death of stars; planetary formation and environments; galaxies and cosmology. Corequisite(s): ASTR 1301 Fall

### **ASTR 1301 Descriptive Astronomy**

Semester Credit Hours: 3 sch A descriptive survey of the solar system and galactic topics. Emphasis is on the celestial sphere, the earth's motions, the sun, moon, planets, asteroids, comets, meteors, and meteorites. Fall

## **Athletic Training**

### **ATTR 1370 Introduction to Athletic Training**

Semester Credit Hours: 3 sch This course will introduce students to basic knowledge, skills, values and background of the athletic training profession including basic skills and laboratory exercises and 50 clock hours of directed observations in a variety of approved clinical education sites. Fall

### **ATTR 1371 Contract Study in Athletic Training**

Semester Credit Hours: 1 sch This course is for students who have completed the TEA-approved Sports Medicine I course and 50 observation hours with a licensed or certified athletic trainer. This course allows for the initiation of clinical observation and education, and development of knowledge relating to the background, values, ideals, and basic skills required of the profession of athletic training. Prerequisite(s): Program Director Approval.

### **ATTR 2295 Athletic Training Practicum I**

Semester Credit Hours: 2 sch This course will introduce students in the undergraduate athletic training program to clinical education while initiating experiential learning and development of skills. Students will engage in hands-on learning under the direct supervision of a healthcare professional at an approved education site in the collegiate setting. Prerequisite(s): Acceptance into the Athletic Training Program and ATTR 1370 or ATTR 1371 and ATTR 2390 Fall

### **ATTR 2296 Athletic Training Practicum II**

Semester Credit Hours: 2 sch This course will engage students in the undergraduate athletic training program in experiential learning and development of skills. Students will engage in hands-on learning under the direct supervision of a healthcare professional at an approved clinical education site in the collegiate and emergency settings.

Prerequisite(s): Acceptance into the Athletic Training Program and ATTR 2295 Spring

### **ATTR 2360 Emergency Procedures and Management**

Semester Credit Hours: 3 sch This course will provide instruction in techniques for athletic trainers to prevent, identify, and manage emergencies. This course will emphasize identification of risk factors, reduction of risks, identification of emergencies and procedures for emergency management. Prerequisite(s): Acceptance to the Athletic Training Program and ATTR 2390 Fall

### **ATTR 2390 Athlete Wellness and Injury Prevention**

Semester Credit Hours: 3 sch This course is designed to encourage students to promote patient wellbeing and injury prevention, and offers techniques to facilitate wellness and reduce injury risk. The course encourages understanding of athletic trainers' roles as healthcare providers, and techniques in providing patient education, and care in the principles of injury prevention strategies. Prerequisite(s): ATTR 1370 or ATTR 1371 Spring

### **ATTR 3275 Orthopedic Physiology**

Semester Credit Hours: 2 sch This course fosters knowledge in the pathophysiology of connective tissue will be covered to promote understanding of the evaluation and rehabilitation processes to enhance quality of care.

Prerequisite(s): BIOL 3350 and BIOL 3352

### **ATTR 3290 Orthopedic Conditions**

Semester Credit Hours: 2 sch This course will provide information in the pathophysiology, etiology, epidemiology, signs, and symptoms of orthopedic conditions and injuries. Prerequisite(s): BIOL 3350 and BIOL 3352 and ATTR 3275 Fall

### **ATTR 3295 Athletic Training Practicum III**

Semester Credit Hours: 2 sch This course will facilitate experiential learning and advancement of skills for students in the undergraduate athletic training program. Students will engage in hands-on learning under the direct supervision of a healthcare professional at an approved clinical education site in the high school setting. Prerequisite(s): Acceptance into the Athletic Training Program and ATTR 2296 Fall

### **ATTR 3296 Athletic Training Practicum IV**

Semester Credit Hours: 2 sch this course will facilitate experiential learning and advancement of skills for students in the undergraduate athletic training program. Students will engage in hands-on learning under the direct supervision of a healthcare professional at an approved clinical education site in emergency-based and general medical settings.

Prerequisite(s): Acceptance into the Athletic Training Program and ATTR 3295 Spring

### **ATTR 3300 Applied Movement Assessment**

Semester Credit Hours: 3 sch This course is designed to provide students with the knowledge and tools to perform functional and practical movement analysis for use in injury evaluation, rehabilitation, ergonomic assessment and injury prevention. Prerequisite(s): ATTR 3275 Fall

### **ATTR 3301 Concepts in Motor Development and Movement**

Semester Credit Hours: 3 sch Apply knowledge of developmental stages, patterns and principles of motor development to the acquisition of refinement of motor skills. Consider the influence of personal and environmental factors on motor learning and performance and identify strategies used to promote and correct motor skills.

### **ATTR 3350 Evidence Based Practice**

Semester Credit Hours: 3 sch This course will introduce students to concepts needed to read, interpret, and integrate research into clinical practice. The course will provide information on research methods, quantitative and qualitative research, and the translation of knowledge to practice. Spring

### **ATTR 3374 General Medical Conditions in the Athlete**

Semester Credit Hours: 3 sch This course will provide the knowledge, skills and values that the entry-level certified athletic trainer must possess to recognize, identify, treat and refer general medical conditions and disabilities. This course included the skills and knowledge needed to conduct a general physical exam or screening, knowledge of pharmacology. Prerequisite(s): Acceptance into the Athletic Training Program and BIOL 3350 and BIOL 3352 and ATTR 4295 Fall

### **ATTR 3375 Clinical Anatomy**

Semester Credit Hours: 3 sch This course is designed to provide students with the knowledge needed to identify, describe and compare the musculoskeletal, neuromuscular and myofascial structures of the body. This understanding of the human body allows for effective evaluation and rehabilitation. Fall

### **ATTR 3471 Evaluation of the Lower Extremity**

Semester Credit Hours: 4 sch This course provides information on the procedures and techniques for the recognition, assessment and evaluation of athletic injuries to the lower extremity. Emphasis is placed on the synthesis of information gathered through injury history, observation, palpation, testing range of motion, neurological and orthopedic examination. Prerequisite(s): Acceptance into the Athletic Training Program, BIOL 3350 and BIOL 3352 and ATTR 3275 and ATTR 3375 Fall

### **ATTR 3472 Evaluation of the Upper Extremity**

Semester Credit Hours: 4 sch This course provides information on the procedures and techniques for the recognition, assessment and evaluation of athletic injuries to the upper extremity. Emphasis is placed on the synthesis of information gathered through injury history, observation, palpation, testing range of motion, neurological and orthopedic examination. Prerequisite(s): Acceptance into the Athletic Training Program and BIOL 3350 and BIOL 3352 and ATTR 3275 and ATTR 3375 and ATTR 3471 Spring

### **ATTR 4075 Seminar in Athletic Training**

Semester Credit Hours: 0 sch This course is designed to encourage the successful transition of the student to practice including discussion of timely topics and issues related to athletic training and preparation for the TDLR licensure exam. Corequisite(s): ATTR 4296

### **ATTR 4175 Seminar in Athletic Training**

Semester Credit Hours: 1 sch This course is designed to encourage the successful transition of the student to practice, including discussions of timely topics and issues related to athletic training and preparation for the TDLR Licensure exam. Spring

### **ATTR 4225 Diagnostic Imaging**

Semester Credit Hours: 2 sch Determine which diagnostic imaging strategies are appropriate based on patient injury and environmental factors. Utilize proper diagnostic imaging products to conduct imaging used to guide clinical decisions. Communicate effectively with patients and stakeholders.

### **ATTR 4235 Surgical Considerations**

Semester Credit Hours: 2 sch Demonstrate the skills and knowledge to prepare for an orthopedic procedure, including scrubbing, gowning, patient preparation and positioning and maintaining sterility and patient safety. Integrates concepts of splinting, casting, and diagnostic imaging to enhance patient outcomes.

### **ATTR 4270 Healthcare Informatics**

Semester Credit Hours: 2 sch This course will introduce students to the process of collecting, storing, and analyzing health related information. Students will be exposed to methods and technology to improve the effectiveness of data collection, storage, communication, and analysis. Spring

### **ATTR 4295 Athletic Training Practicum V**

Semester Credit Hours: 2 sch This course will facilitate experiential learning and advancement of skills for students in the undergraduate athletic training program. Students will engage in hands-on learning under the supervision of a healthcare professional at an approved clinical education site in the collegiate setting and rehabilitation based settings. Prerequisite(s): Acceptance into the Athletic Training Program and ATTR 3296 Fall

### **ATTR 4296 Athletic Training Practicum VI**

Semester Credit Hours: 2 sch This course will facilitate experiential learning and advancement of skills for students in the undergraduate athletic training program. Students will engage in hands-on learning under the direct supervision of a healthcare professional at an approved clinical education site in the collegiate setting. Prerequisite(s): Acceptance into the Athletic Training Program and ATTR 4295 Corequisite(s): ATTR 4175 Spring

### **ATTR 4355 Psychology of Injury**

Semester Credit Hours: 3 sch Identification and analysis of the psychosocial factors related to the prevention of and recovery from athletic injuries and the development of counseling and referral skills needed when working with athletes and others in the sports medicine environment. Fall

### **ATTR 4370 Therapeutic Modalities**

Semester Credit Hours: 3 sch This course provides an in-depth study of the pathophysiology, indicators for use and application of therapeutic physical agents and modalities used in the care and rehabilitation of musculoskeletal injuries and conditions. Prerequisite(s): Acceptance into the Athletic Training Program and ATTR 3375 Corequisite(s): ATTR 3275 Spring

### **ATTR 4371 Athletic Training Administration**

Semester Credit Hours: 3 sch This course provides knowledge required for the organization and administration of healthcare for athletic trainers. Content focuses on leadership, personnel decisions, legal and insurance issues, budgeting and facility management. Fall

### **ATTR 4372 Rehabilitation of Athletic Injuries**

Semester Credit Hours: 3 sch Students will learn and initiate the principles and goals of common rehabilitative techniques and procedures of athletic injuries and therapeutic exercise. Emphasis will include holistic and evidence-based approaches to the application of techniques and procedures. Prerequisite(s): KINE 2370, KINE 3340; BIOL 3350, BIOL 3352. Spring

### **ATTR 4389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. May be acceptable for graduate credit. May be repeated for credit. Fall, Spring, Summer

### **ATTR 4425 Splinting, Casting, Orthotic**

Semester Credit Hours: 4 sch Utilize injury, patient, and environmental factors and characteristics to identify appropriate paraphyletic or management strategies for orthopedic conditions. Apply appropriate paraphyletic or management devices including cast, splints, and durable medical equipment and effectively communicate the process care of device, prognosis, outcome and other relevant information with patients.

### **ATTR 4470 Movement Analysis and Research**

Semester Credit Hours: 4 sch Utilize current technology in biomechanics to quantitatively analyze human movement patterns and interpret results. Identify opportunities to improvement movement using movement analysis, accelerometer and GPS data, and EMG data. Determine appropriate information to contribute to the current research in human moment. Prerequisite(s): ATTR 3350 Prerequisite or Corequisite: ATTR 3350

### **ATTR 4472 Rehabilitation of Athletic Injuries**

Semester Credit Hours: 4 sch The course provides knowledge required to initiate, plan, and perform rehabilitation of injuries. Students will learn the principles and goals of guiding rehabilitative techniques. Emphasis will include holistic and evidence-based approaches to the rehabilitation of musculoskeletal, neuromuscular and myofacial injuries. Prerequisite(s): Acceptance into the Athletic Training Program and ATTR 3375 and ATTR 3275 and ATTR 3300 Fall



# Biology

## **BIOL 1106 General Biology I Laboratory**

Semester Credit Hours: 1 sch Laboratory methods in the biological sciences, directed toward the structure and function of the cell. Corequisite(s): BIOL 1306. Fall, Spring

## **BIOL 1107 General Biology II Laboratory**

Semester Credit Hours: 1 sch Laboratory methods for the study of the structure, function, and the environment of organisms. Corequisite(s): BIOL 1307. Fall, Spring

## **BIOL 1108 Biology for Non Science Majors Laboratory**

Semester Credit Hours: 1 sch The laboratory will provide practical and interactive experiment and demonstrations of concepts covered in BIOL 1308. as a prerequisite for any upper level biology course. Corequisite(s): BIOL 1308 Biology majors and minors cannot substitute BIOL 1108 for either BIOL 1106 or BIOL 1107. BIOL 1108 cannot be used Spring

## **BIOL 1306 General Biology I**

Semester Credit Hours: 3 sch Introduction to the biological sciences, with emphasis on the structure, function, and physiology of the cell: genetics, and bioenergetics. The first of the two semester freshman biology sequence for Biology majors and minors, and all disciplines that require the majors Biology sequence, although students of all majors may take it to fulfill general education science requirements. Corequisite(s): BIOL 1106 Fall, Spring

## **BIOL 1307 General Biology II**

Semester Credit Hours: 3 sch Introduction to the biological sciences, with emphasis on the biology of organisms, their evolution, and the environment. The second of the two semester freshman biology sequence for Biology majors and minors, and all disciplines that require the majors Biology sequence, although students of all majors may take it to fulfill general education science requirements. Prerequisite(s): BIOL 1306/BIOL 1106. Corequisite(s): BIOL 1107 Fall, Spring

## **BIOL 1308 Biology for Non-Science Majors**

Semester Credit Hours: 3 sch A survey of the fundamental principles that apply to living organisms. These include cell structure and function, genetics, evolution, physiology, biodiversity, and ecology. Corequisite(s): BIOL 1108 Biology majors and minors cannot substitute BIOL 1308 for either BIOL 1306 or BIOL 1307. BIOL 1308 cannot be used as a prerequisite for any upper level biology course. Spring

## **BIOL 2121 Introductory Microbiology Laboratory**

Semester Credit Hours: 1 sch An introduction to the basic techniques used to study and identify microorganisms. Prerequisite(s): BIOL 1306/BIOL 1106; BIOL 1307/BIOL 1107; CHEM 1311/CHEM 1111. Corequisite(s): BIOL 2320. For Nursing majors; will not be accepted for Biology major or minor, nor to meet undergraduate prerequisites for medical or any other doctoral-granting school. Fall, Spring

## **BIOL 2303 Introductory Nutrition**

Semester Credit Hours: 3 sch An introduction to dietetics and the principles of nutrition, including the nutritional roles of fats, carbohydrates, proteins, vitamins, minerals and water and how they relate to human health. Prerequisite(s): BIOL 1306/BIOL 1106; BIOL 1307 /BIOL 1107; CHEM 1311/CHEM 1111. For Nursing majors; will not count toward Biology major or minor, nor meet undergraduate prerequisites for any medical or other doctoral-granting schools. Fall, Spring

## **BIOL 2320 Introductory Microbiology**

Semester Credit Hours: 3 sch An introduction to microbiology with emphasis on microbial growth, diagnostics, infectious diseases caused by microorganisms, and host defenses. Prerequisite(s): BIOL 1306/BIOL 1106; BIOL 1307/BIOL 1107; CHEM 1311/CHEM 1111. For Nursing majors; will not count toward Biology major or minor, nor for undergraduate prerequisites for medical or other doctoral-granting professional schools. Fall, Spring

### **BIOL 3101 Microbiology Laboratory**

Semester Credit Hours: 1 sch Techniques for the study of microorganisms. Corequisite(s): BIOL 3300. Spring

### **BIOL 3111 Invertebrate Zoology Laboratory**

Semester Credit Hours: 1 sch Laboratory studies of the morphology and physiology of representative invertebrates. Corequisite(s): BIOL 3310. Fall

### **BIOL 3113 Vertebrate Zoology Laboratory**

Semester Credit Hours: 1 sch Laboratory and field studies of vertebrates including identification, classification, life history, and morphology. Corequisite(s): BIOL 3312. Spring

### **BIOL 3125 Cell Biology Laboratory**

Semester Credit Hours: 1 sch Laboratory investigation of cellular structure and function. Corequisite(s): BIOL 3324. Spring

### **BIOL 3151 Human Anatomy Laboratory**

Semester Credit Hours: 1 sch Anatomy of tissues and organ systems of the human and cat. Corequisite(s): BIOL 3350. Fall, Spring

### **BIOL 3153 Human Physiology Laboratory**

Semester Credit Hours: 1 sch Physiological studies illustrating properties and functions of human cells, tissues and systems. Corequisite(s): BIOL 3352. Fall, Spring

### **BIOL 3196 Supervised Laboratory Teaching**

Semester Credit Hours: 1 sch Upper-level undergraduates provide teaching assistance in General Biology or other designated Biology lab sections. The lab instructor supervises the student, establishes curricular duties (grading, etc.), and remains in charge of the lab as instructor of record. Good experience for students seeking teaching certification. Prerequisite(s): A grade of at least B in the lab course oneself, plus permission of supervising lab instructor. This course may be repeated for credit. Fall, Spring

### **BIOL 3197 Pre-professional Seminar**

Semester Credit Hours: 1 sch This course provides a mechanism to disseminate information to students interested in doctoral-level professional programs, including opportunities for interactions, small group discussions, and visits by representatives of health science centers. Fall

### **BIOL 3230 Botany**

Semester Credit Hours: 2 sch Structure, development, taxonomy and physiology of the major plant groups. Prerequisite(s): BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107. Corequisite(s): BIOL 3231. Spring

### **BIOL 3231 Botany Laboratory**

Semester Credit Hours: 2 sch Morphology and taxonomy of the major plant groups. Corequisite(s): BIOL 3230. Spring

### **BIOL 3300 Microbiology**

Semester Credit Hours: 3 sch Growth, morphology, metabolism and ecology of microorganisms. Prerequisite(s): BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107; CHEM 1311-CHEM 1111, CHEM 1312-CHEM 1112. Corequisite(s): BIOL 3101. Spring

### **BIOL 3310 Invertebrate Zoology**

Semester Credit Hours: 3 sch A survey of the morphology, physiology, phylogeny and natural history of major invertebrate phyla. Prerequisite(s): BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107. Corequisite(s): BIOL 3111. Fall

### **BIOL 3312 Vertebrate Zoology**

Semester Credit Hours: 3 sch A survey of the vertebrates, including classification, life history, ecology, evolution, morphology, and physiology. Prerequisite(s): BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107. Spring

### **BIOL 3324 Cell Biology**

Semester Credit Hours: 3 sch Structure and function of prokaryotic and eukaryote cells, with emphasis on the latter. Topics include cell organelles, membranes, energetics, and transport. Prerequisite(s): BIOL 1306-BIOL 1106; BIOL 1307-BIOL 1107; CHEM 1311-CHEM 1111; CHEM 1312-CHEM 1112; CHEM 3311-CHEM 3113 Corequisite(s): BIOL 3125. Spring

### **BIOL 3350 Human Anatomy**

Semester Credit Hours: 3 sch The development, structures and function of major human anatomical systems. Primarily for Kinesiology majors and Biology majors seeking teacher certification. Prerequisite(s): BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107. Corequisite(s): BIOL 3151. Fall, Spring

### **BIOL 3352 Human Physiology**

Semester Credit Hours: 3 sch The physiology of human cells, tissues and systems. Primarily for Kinesiology majors and Biology majors seeking teacher certification. Prerequisite(s): BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107; Recommended: CHEM 1311-CHEM 1111, and CHEM 1312-CHEM 1112 Corequisite(s): BIOL 3153 Fall, Spring

### **BIOL 3372 Principles of Ecology**

Semester Credit Hours: 3 sch An introduction to behavioral, population, community and ecosystems ecology including the impact of humans on ecosystem function. For non-majors and Biology majors seeking teaching certification. Prerequisite(s): BIOL 1306-BIOL 1106; BIOL 1307-BIOL 1107. Spring

### **BIOL 4141 Genetics Laboratory**

Semester Credit Hours: 1 sch Laboratory experiences in manipulation of genetic systems and interpretation of data. Required for Biology majors on Preprofessional Plan. Corequisite(s): BIOL 4340. Fall, Spring

### **BIOL 4153 Animal Physiology Lab**

Semester Credit Hours: 1 sch Experiments and demonstrations of physiological phenomena. Corequisite(s): BIOL 4352. Spring

### **BIOL 4303 Principles of Nutrition**

Semester Credit Hours: 3 sch Nutritional roles of carbohydrates, proteins, lipids, minerals, vitamins and water in animals (including humans) and plants; emphasis on digestion, absorption, metabolism and excretion of the nutrients and their metabolites. Prerequisite(s): BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107. Prerequisite or Corequisite: CHEM 3411. Fall

### **BIOL 4320 Cell Biochemistry**

Semester Credit Hours: 3 sch A survey of the biochemical basis of life processes, structure and function of cell components and biologically important molecules, enzyme kinetics, bioenergetics, respiration and reductive biosynthesis. Prerequisite(s): BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107; CHEM 3311- CHEM 3113; CHEM 3312 -CHEM 3114; MATH 2413, BIOL 3300- BIOL 3101 or BIOL 3324-BIOL 3125 recommended. Fall

### **BIOL 4322 Molecular Biology**

Semester Credit Hours: 3 sch An introduction to key concepts in molecular biology. Topics include DNA structure and function, DNA replication and repair, regulation of gene expression, protein structure and function, and molecular techniques utilized for nucleic acid and protein purification and manipulation. Prerequisite(s): BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107, CHEM 1311-CHEM 1111, CHEM 1312-CHEM 1112. Recommended: BIOL 4320 Fall

### **BIOL 4323 Immunology**

Semester Credit Hours: 3 sch Structure and function of the mammalian immune system. Prerequisite(s): BIOL 3300-BIOL 3101, BIOL 4320 and BIOL 4340. Spring

### **BIOL 4340 Genetics**

Semester Credit Hours: 3 sch Structures and functions of hereditary material, emphasizing recent developments. BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107; 6 upper level hours of Biology passed with a C or better; Corequisite(s): Genetics Recitation; BIOL 4141 for Biology majors on Preprofessional Plan. Fall, Spring

### **BIOL 4342 Evolution**

Semester Credit Hours: 3 sch Population variation and mechanisms of evolution and speciation. Students will spend three hours per week in lecture and one hour per week in a small group recitation. Prerequisite(s): BIOL 4340 passed with a grade of C or better. Corequisite(s): Evolution Recitation. Fall, Spring

### **BIOL 4352 Animal Physiology**

Semester Credit Hours: 3 sch Development, function and mechanism of action of the major physiological systems in animals. Prerequisite(s): BIOL 4320. Corequisite(s): BIOL 4153. Spring

### **BIOL 4354 Animal Behavior**

Semester Credit Hours: 3 sch Overview of the ecological, evolutionary and genetic aspects of animal behavior. Prerequisite(s): BIOL 1306-BIOL 1106, BIOL 1307-BIOL 1107; BIOL 4340 Fall

### **BIOL 4362 Histology**

Semester Credit Hours: 3 sch Microscopic representation of cells and tissues of different organ systems of the human body, with emphasis on structure and function. Prerequisite(s): BIOL 3324 or permission of the instructor. Fall

### **BIOL 4395 Bioresearch**

Semester Credit Hours: 1-3 sch Individual undergraduate research directed by a faculty member of Biology. May be taken for 1, 2, or 3 hours of credit. Prerequisite(s): BIOL 4320, BIOL 4340 and/or BIOL 4352. Consent of directing faculty is required. Fall, Spring, Summer

## **Business**

### **BUSI 1301 Business Principles**

Semester Credit Hours: 3 sch This course provides a survey of economic systems, forms of business ownership, and consideration for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making processes. Financial topics are introduced including accounting, money and banking, and securities markets. Also included are discussions of business challenges in the legal and regulatory environment, business ethics, social responsibility, and international business. Emphasized is the dynamic role of business in everyday life.

### **BUSI 2342 Principles of Statistics**

Semester Credit Hours: 3 sch The course is an introduction to the principles of statistics and their application to problems in business and economics. Topics include the basics of probability theory, descriptive statistics, sampling methods, statistical estimation, hypothesis testing, and the basics of linear regression. Prerequisite(s): MATH 1324

### **BUSI 2345 Data Analysis with Excel**

Semester Credit Hours: 3 sch This course prepares students for Microsoft Expert Excel Certification. Topics include workbook management, data management and formatting, advanced formulas and macros, and advanced charts and tables.

### **BUSI 3311 Business Communications**

Semester Credit Hours: 3 sch This is an introduction to basic interpersonal communication process through appropriate communications technology with applications for business organizations. It is a systems approach to planning, researching, organizing, composing, editing, and revising reports and other business-related communications. Oral presentations are required. Prerequisite(s): Two semesters of Freshman English and COMM 1315 equivalent.

### **BUSI 3324 Business and the Law**

Semester Credit Hours: 3 sch This survey course covers the source of law and courts and introduces tort law along with historical, economic, political, and ethical bases of contrast. The course included ethical considerations in business and the impact of regulatory and administrative law on business and the impact of regulatory and administrative law and business.

### **BUSI 3335 Foundations of Entrepreneurship**

Semester Credit Hours: 3 sch Students will learn the steps to turn a business idea into a new venture. How to evaluate the business environment, recognize business opportunities, develop feasibility studies and business plans, assess financial issue, pick the best strategies to enter the market, expand the business, and obtain and retain customers. Spring

### **BUSI 4310 Raising Entrepreneurial Capital**

Semester Credit Hours: 3 sch This course focuses on the fundamental operating model for new ventures and explores and evaluates potential sources of funding, such as bootstrap, crowdfunding, equity finding, debt financing, grant funding and digital currencies. Prerequisite(s): ACCT 2301 and BUSI 3335 Spring

## **Chemical Engineering**

### **CENG 2333 Elementary Chemical Engineering**

Semester Credit Hours: 3 sch Introduction to the field and profession of chemical engineering. It covers fundamentals of engineering, tools and methods for analyzing problems with application in chemical processes. Computation tools used in chemical engineering are introduced. Prerequisite or Corequisite: MATH 2413 Fall

### **CENG 3211 Chemical Engineering Lab I**

Semester Credit Hours: 2 sch Representative lab experiments on fluid flow, mass transfer, heat transfer and heat exchanges. Prerequisite or Corequisite: CENG 3304, CENG 3313, and CENG 4324

### **CENG 3304 Chemical Engineering Fluid Operations**

Semester Credit Hours: 3 sch Fundamentals of fluid mechanics with applications to design and analysis of process equipment. Prerequisite(s): MATH 2414

### **CENG 3313 Heat Transfer Operations**

Semester Credit Hours: 3 sch Continuation of CENG 3304 Heat transfer operations. Prerequisite(s): CENG 3304 and MATH 3320

### **CENG 3320 Chemical Engineering Analysis**

Semester Credit Hours: 3 sch Applications of numerical analysis techniques to mathematical models of processes common to chemical and associated industries; computational methods and software for analysis of chemical engineering processes. Prerequisite(s): MATH 3320

### **CENG 3354 Chemical Engineering Thermodynamics**

Semester Credit Hours: 3 sch Applications of thermodynamics to pure and mixed fluids; phase equilibria and chemical reaction equilibria. Prerequisite(s): CENG 3320 and ENGR 3375

### **CENG 4211 Chemical Engineering Lab II**

Semester Credit Hours: 2 sch Representation lab experiments on reaction engineering, distillation column and simulation, integrated process control and simulation. Prerequisite or Corequisite: CENG 4361

### **CENG 4324 Chemical Engineering Mass Transfer**

Semester Credit Hours: 3 sch Introduction to mass transfer operations with applications to design and analysis of process equipment. Prerequisite(s): CENG 3313

### **CENG 4326 Chemical Engineering Plant Design**

Semester Credit Hours: 3 sch Integration of material from other chemical engineering courses with applications to the design of plants and processes representative of the chemical and related process industries. Prerequisite(s): CENG 4324

### **CENG 4355 Process Safety Engineering**

Semester Credit Hours: 3 sch Applications of engineering principles to process safety and hazards analysis, mitigation, and prevention, with special emphasis on the chemical process industries; includes source modeling for leakage rates, dispersion, analysis, relief valve sizing, fire and explosion damage analysis, hazards identification, risk analysis, and accident investigations. Prerequisite(s): Senior standing in any engineering major.

### **CENG 4361 Process Dynamics and Control**

Semester Credit Hours: 3 sch Analysis of process dynamics and methods for the design of automatic control systems for chemical process plants. Prerequisite(s): CENG 3320

### **CENG 4369 Gas and Petroleum Processing**

Semester Credit Hours: 3 sch Design and operation of petroleum and gas processing facilities including hydrate suppression, dehydration, sweetening, sulfur recovery, LPG and liquid recovery, refining operations; analysis of the design and operations involving a large degree of process simulation. Prerequisite(s): CENG 3320

### **CENG 4372 Chemical Engineering Kinetics**

Semester Credit Hours: 3 sch Chemical reaction processes and how they relate to the design of equipment and machinery is studied. Prerequisite(s): CENG 4324

### **CENG 4375 Stage-wise Separations**

Semester Credit Hours: 3 sch Design of stage-wise and continuous separation process. Applications include absorption, distillation, liquid-liquid extraction, and stripping. Prerequisite(s): CENG 3354

### **CENG 4410 Senior Design**

Semester Credit Hours: 4 sch Work on an extensive chemical engineering project covering many areas. Prerequisite(s): Senior standing in Chemical Engineering program.

## **Chemistry**

### **CHEM 1111 General Chemistry Lab I**

Semester Credit Hours: 1 sch Experiments related to principles and topics covered in CHEM 1311. Corequisite(s): CHEM 1311. Fall, Spring

### **CHEM 1112 General Chemistry Lab II**

Semester Credit Hours: 1 sch Experiments related to principles and topics covered in CHEM 1312. Prerequisite(s): CHEM 1311 and CHEM 1111 both with C grade or higher. Corequisite(s): CHEM 1312. Spring, Summer

### **CHEM 1305 Introductory Chemistry**

Semester Credit Hours: 3 sch This course is a survey of the fundamentals of chemistry with applications to environmental science, allied health occupations, and food science. It will require critical thinking skills and problem solving ability, in addition to learning of factual material. Students with a weak background in Chemistry should take this course prior to enrolling in the General Chemistry sequence, i.e., CHEM 1311. Fall

### **CHEM 1311 General Chemistry I**

Semester Credit Hours: 3 sch An introduction to chemistry, fundamentals of atomic structure and bonding, periodic chart, chemical nomenclature, equations and reactions. Prerequisite(s): High school chemistry and a minimum of college algebra. Fall, Spring

### **CHEM 1312 General Chemistry II**

Semester Credit Hours: 3 sch Continuation of CHEM 1311. Kinetics, equilibria, thermodynamics, electrochemistry, environmental chemistry, nuclear chemistry, and organic chemistry. Prerequisite(s): CHEM 1311 and CHEM 1111 both with C grade or higher. Spring, Summer

### **CHEM 3113 Organic Chemistry Lab I**

Semester Credit Hours: 1 sch Techniques of separation, purification and synthesis of organic compounds. Fall

### **CHEM 3114 Organic Chemistry Lab II**

Semester Credit Hours: 1 sch Continuation of CHEM 3113; qualitative analysis, spectral interpretation (IR, NMR, MS), and instrument usage. Prerequisite(s): CHEM 3311 and CHEM 3113 with C grade or higher. Corequisite(s): CHEM 3312. Spring

### **CHEM 3125 Analytical Chemistry Lab**

Semester Credit Hours: 1 sch Laboratory experience with instruments and methods presented in CHEM 3324 Fall

### **CHEM 3311 Organic Chemistry I**

Semester Credit Hours: 3 sch Organic functional groups. Emphasizes synthesis and mechanisms. For chemistry, pre-professional and other science majors. Includes a noncredit recitation hour. Prerequisite(s): CHEM 1312 -CHEM 1112 with C grade or higher. Corequisite(s): CHEM 3113. Fall

### **CHEM 3312 Organic Chemistry II**

Semester Credit Hours: 3 sch Continuation of CHEM 3311 including an introduction to naturally occurring and biologically important compounds. Includes a noncredit recitation hour. Prerequisite(s): CHEM 3311 and CHEM 3113 with C grade or higher. Corequisite(s): CHEM 3114. Spring

### **CHEM 3324 Analytical Chemistry I**

Semester Credit Hours: 3 sch Analytical techniques and methods (emphasis on instrumentation) common to all areas of chemistry, medicine and the biological sciences. Prerequisite(s): CHEM 1312/CHEM 1112 with C grade or higher. Fall

### **CHEM 3695 Intro to Research**

Semester Credit Hours: 1-6 sch Active participation in a research project conducted under the mentorship of a member of the Chemistry faculty. The choice of faculty member is selected by the student. Prerequisite: consultation with chemistry faculty and permission of research advisor. May be repeated for credit. Fall, Spring, Summer

### **CHEM 4103 Physical Chemistry Lab I**

Semester Credit Hours: 1 sch Thermodynamic, kinetic and spectroscopic measurements. High-vacuum techniques and the use of sophisticated equipment in measuring molecular parameters. Corequisite(s): CHEM 4301. Fall

### **CHEM 4104 Physical Chemistry Lab II**

Semester Credit Hours: 1 sch Continuation of CHEM 4103. Prerequisite(s): CHEM 4103, or with the permission of the instructor. Corequisite(s): CHEM 4302. Spring

### **CHEM 4175 Inorganic Chemistry Lab**

Semester Credit Hours: 1 sch Experiments which illustrate the descriptive nature of chemistry as well as techniques in the synthesis and identification of inorganic compounds. Prerequisite(s): CHEM 3324 Corequisite(s): CHEM 4374 Spring

### **CHEM 4223 Biochemistry Techniques**

Semester Credit Hours: 2 sch This course surveys the most common laboratory techniques and applications used to investigate bio-molecules and their structure, isolation, purification and activity. Many experiments have to be done on a timely basis and may take several lab periods. Corequisite(s): CHEM 4321. Fall

### **CHEM 4301 Physical Chemistry I**

Semester Credit Hours: 3 sch A physical chemistry course designed for all chemistry majors and minors Topics include thermodynamics, kinetics, and electrochemistry and the subsequent application of these concepts to both chemical and biological systems. Prerequisite(s): CHEM 3312, one year of physics and Calculus I. Corequisite(s): CHEM 4103. Fall

### **CHEM 4302 Physical Chemistry II**

Semester Credit Hours: 3 sch Kinetics, quantum mechanics, bonding and molecular spectroscopy. Prerequisite(s): CHEM 4301, or with the permission of the instructor. Corequisite(s): CHEM 4104 Spring

### **CHEM 4313 Instrumental Chemical Analysis**

Semester Credit Hours: 3 sch Theoretical background and practical use of modern instrumentation for the study of matter, includes electrochemistry, chromatography and spectroscopy. Prerequisite(s): CHEM 3324 Spring

### **CHEM 4321 Biochemistry I**

Semester Credit Hours: 3 sch Beyond Organic Chemistry, this course covers the structure and function of proteins and enzymes. Fundamental metabolic pathways of the chemical reactions of carbohydrates and basic thermodynamic principles that drive these chemical reactions of life processes are also covered. Prerequisite(s): CHEM 3312 and CHEM 3114, both with C or higher grade. Fall

### **CHEM 4322 Biochemistry II**

Semester Credit Hours: 3 sch The second half of this sequence covers photosynthesis and carbon fixation, bases that are incorporated into nucleic acids, the polymers of nucleic acids, lipids and membranes. Prerequisite(s): CHEM 4321 Corequisite(s): CHEM 4223. Spring

### **CHEM 4330 NMR Spectroscopy**

Semester Credit Hours: 3 sch The Nuclear Magnetic Resonance phenomenon is reviewed and basic concepts of modern pulsed multinuclear NMR methods are presented. Focus will be on 1-D and 2-D techniques that are most useful today. 2-D techniques will then be covered as to their most effective use. The latter part of the course uses multiple spectra problem sets to gain proficiency in structure determination by NMR. Prerequisite(s): CHEM 3312 and CHEM 3114. Corequisite(s): 4131 Fall

### **CHEM 4340 Medicinal Chemistry**

Semester Credit Hours: 3 sch A brief historical development of medicinal chemistry and pharmacognosy is followed by a detailed look at most drug classes. Emphasis will be on relating chemical structure with bioactivity. Commonly used methods of drug design are interspersed. Prerequisite(s): CHEM 3312. Fall, Spring

### **CHEM 4351 Advanced Organic Chemistry**

Semester Credit Hours: 3 sch Principles of reaction mechanisms, structure, and synthetic strategies as applied to complex molecular systems and transformations. Prerequisite(s): CHEM 3312 and CHEM 3114

### **CHEM 4374 Inorganic Chemistry**

Semester Credit Hours: 3 sch Modern bonding theories at a level appropriate to understanding structure and chemical properties. Periodic relationships applied to families of elements. Prerequisite(s): CHEM 3324, CHEM 3125 Corequisite(s): CHEM 4175 Spring

### **CHEM 4389 Selected Topics**

Semester Credit Hours: 3 sch These are undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog and may be acceptable for graduate credit. Topics may include for examples: advanced analytical methods, modern nuclear chemistry, and polymer chemistry. Fall

## **Child and Family Studies**

### **CHLD 3104 Experimental Psychology Lab**

Semester Credit Hours: 1 sch This is a research and statistics course that should be taken concurrently with CHLD 3304 . Students will collect and analyze data using SPSS and write APA style reports. Corequisite(s): CHLD 3304 Fall, Spring, Summer PSYC 3104



### **CHLD 3301 Introductory Statistics**

Semester Credit Hours: 3 sch Measures of central tendency, variability, correlation and hypotheses testing, with emphasis on the application of statistical methods to research in the behavioral sciences and education. Prerequisite(s): must have fulfilled one general education mathematics requirement. Fall, Spring, Summer

### **CHLD 3304 Educational Research Methods**

Semester Credit Hours: 3 sch This course provides a comprehensive overview of educational research methods, with emphasis given to the language and process of research, sampling and measurement strategies, and research design and analysis in the context of family, educational, and community settings. Prerequisite(s): CHLD 3301 Corequisite(s): CHLD 3104 Fall, Spring, Summer

### **CHLD 3308 Introduction to Early Childhood Education**

Semester Credit Hours: 3 sch This course is an introduction to the education of the young child, including developmentally appropriate practices and programs for children from birth through age eight; theoretical and historical perspectives, ethical and professional responsibilities, and current issues. Fall, Spring

### **CHLD 3309 Family and School Interactions**

Semester Credit Hours: 3 sch This course is a study of the child, family, community, and school, including parent education and involvement, family and community lifestyles, child abuse and neglect, and current family life issues. Fall, Spring

### **CHLD 3310 Motor Development**

Semester Credit Hours: 3 sch An examination of the factors affecting physical growth, those influencing the acquisition of fundamental motor skills, and the effects of aging upon physical performance. Fall, Spring, Summer

### **CHLD 3311 Social Psychology**

Semester Credit Hours: 3 sch Interrelationships between individuals and their social environment, considering social influences upon motivation, perception, behavior and development, and change of attitudes and opinion. Prerequisite(s): PSYC 1301. Spring

### **CHLD 3321 Abnormal Psychology**

Semester Credit Hours: 3 sch Variables involved in the development, maintenance and treatment of a variety of behavior disorders. Prerequisite(s): PSYC 1301. Fall, Spring, Summer

### **CHLD 3341 Child/Adolescent Psychology**

Semester Credit Hours: 3 sch Developmental aspects of physical, mental, social and emotional growth from prenatal through adolescent periods. Recommended: PSYC 1301. Spring

### **CHLD 3342 Development of Creativity**

Semester Credit Hours: 3 sch This course focuses on understanding creativity and the development of skills to assist and encourage young children to express their creative natures. Planning and production of materials that enhance creativity in self-expressive thought and play are emphasized. Prerequisite(s): PSYC 3341 and Visual/Performing core credit. Spring

### **CHLD 3345 Child Abuse and Neglect**

Semester Credit Hours: 3 sch The purpose of this course is to help students develop an understanding of the various forms of child abuse, identify the underlying cause of this multifaceted problem, and to appropriately identify the types of services that will benefit maltreated children and their families. The nature and impact of child maltreatment, the ways in which society prevents or responds to it, and the system of response to child maltreatment are addressed. Fall, Spring, Summer

### **CHLD 3352 The Exceptional Child**

Semester Credit Hours: 3 sch This course presents the pre-service teacher with a general overview of exceptionalities of children and youth to include characteristics, etiology, and education programs and practices. Topics also include historical and legislative events affecting special education and an overview of the special education process including referral, screening, assessment and educational planning. A field experience may be included. Prerequisite or Corequisite: CHLD 3341. Fall, Spring, Summer

### **CHLD 4310 Early Intervention**

Semester Credit Hours: 3 sch This course focuses on issues related to young children who exhibit atypical development including the roles families and professionals in the field play in facilitating development. Prerequisite(s): CHLD 3341 or permission of the instructor. Summer

### **CHLD 4311 Social Development and Learning**

Semester Credit Hours: 3 sch Investigation of social-emotional development in young children. Emphasis is on using knowledge of social-emotional development to establish a positive learning environment. Prerequisite(s): CHLD 3341 or permission of instructor. Fall, Spring, Summer

### **CHLD 4314 Language Development in the Young Child**

Semester Credit Hours: 3 sch This course studies the nature of language and the acquisition of language by the young child. Topics included are: (1) language structure, (2) sequence and process of the acquisition of language, (3) cognitive aspects of language acquisition and implementation, (4) social aspects of language in childhood, and (5) language variation. Prerequisite(s): CHLD 3341 or permission of the instructor. Fall, Spring

### **CHLD 4320 Social Stratification**

Semester Credit Hours: 3 sch Focuses on theories of social inequality as applied to the exercise of power and large-scale social control. Issues of class, race and gender and other inequalities are considered in the U.S. and globally. Prerequisite(s): SOCI 1301. Spring

### **CHLD 4329 First and Second Language Acquisition**

Semester Credit Hours: 3 sch The course focuses on the processes of acquiring one's native language as well as a second language, including the theories, stages, and connection between oral language and literacy. Prerequisite(s): CHLD 3341 or permission of the instructor. Spring

### **CHLD 4370 Family Dysfunction and Substance Abuse**

Semester Credit Hours: 3 sch The role of substance abuse in family violence, child rearing and marital discord. Various ways of intervening to moderate the effects of substance abuse in families will be discussed. Prerequisite(s): SOCI 1301. Spring

### **CHLD 4380 Internship in Early Childhood Intervention**

Semester Credit Hours: 3 sch Supervised observation and participation in an early intervention setting(s) for children ages birth to five with disabilities or developmental delays and their families. Spring

### **CHLD 4389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. May be acceptable for graduate credit. Fall

### **CHLD 4399 Senior Research Seminar**

Semester Credit Hours: 3 sch A capstone course that provides an in-depth examination of current issues in early development and education of children from birth through age 8 within the context of family, educational, and community settings. The seminar format requires that students make regular and substantial contributions to the course by analyzing and evaluating current theories and research, integrating literature, and justifying a research study related to early education or child and family studies interests. Prerequisite(s): CHLD 3304 Fall, Spring, Summer

### **CHLD 4403 Social Research Methods**

Semester Credit Hours: 4 sch The course provides a comprehensive overview of social science research methods, with emphasis given to the concepts used in research, measurement strategies, and research designs. This course will include a one hour lab that will focus on the steps undertaken in the completion of a research paper. Prerequisite(s): CHLD 3301. Fall, Spring

# Communication

## **COMM 1115 Communication Lab**

Semester Credit Hours: 1 sch Practical activities across the sub-disciplines of the field of Communication. Fall, Spring

## **COMM 1301 Introduction to the Study of Communication**

Semester Credit Hours: 3 sch Surveys the history development and future direction of the field of communication. Includes application of theory to everyday situations as well as introductory approaches to research. Fulfills general education core curricular language, culture, and society requirement. Fall, Spring, Summer

## **COMM 1315 Introduction to Public Speaking**

Semester Credit Hours: 3 sch A course in the history, theory and practice of public speaking with an emphasis placed upon the organization and delivery of informative and persuasive speeches. Further emphasis is given to the reduction of anxieties associated with public speaking. Fulfills general education core curriculum "Oral Communication" requirement. Fall, Spring, Summer

## **COMM 1318 Interpersonal Communication**

Semester Credit Hours: 3 sch This course enables students to analyze and practice communication in one-on-one relationships. Topics include problem-solving, decision-making, working with diversity, information processing, understanding of self and others, and effective speaking and listening skills in interpersonal contexts. Fall

## **COMM 2311 Writing for Media**

Semester Credit Hours: 3 sch Introduction to writing styles for different forms of media. Includes an introduction to journalistic practices and reporting skills. Spring

## **COMM 2333 Small Group Communication**

Semester Credit Hours: 3 sch Introduction to communication in small groups. Emphasis is placed on the concept of leadership, effective participation and problem solving. Spring

## **COMM 3300 Theories of Communication**

Semester Credit Hours: 3 sch Surveys communication theories including those of human interaction, the communicative nature of groups and organizations, intercultural interactions, rhetoric, and mass and social media. Fall

## **COMM 3310 Modern Media and Society**

Semester Credit Hours: 3 sch Introduces students to the structure and content of contemporary communication media, as well as the ways those media interact with culture. Spring

## **COMM 3311 Advertising Strategies**

Semester Credit Hours: 3 sch Explores the history and economic foundations of the advertising industry, advertising media and messages; visual communication; and current issues in advertising.  
Fall

## **COMM 3312 Media Writing**

Semester Credit Hours: 3 sch Explore the study and practice of preparing messages for various media. Specific topics and concentrations will vary. may be repeated for credit when topics vary. Summer

## **COMM 3313 Social Media**

Semester Credit Hours: 3 sch Introduces students to digital and social media. Explores media strategies and media effects on individual organizations and society. Fall, Spring

## **COMM 3314 Sports Broadcasting**

Semester Credit Hours: 3 sch Principles of broadcasting with a particular focus on live sporting events.  
Prerequisite(s): COMM 1301

### **COMM 3315 Sports Communication**

Semester Credit Hours: 3 sch A study of the communication principles of sports in its varied cultural, social, political and interpersonal contexts.

### **COMM 3321 Advanced Interpersonal Communication**

Semester Credit Hours: 3 sch Explores person-to-person communication from theoretical, personal, and professional perspectives. Prerequisite(s): COMM 1318

### **COMM 3322 Nonverbal Communication**

Semester Credit Hours: 3 sch Explores the major research sub-disciplines of nonverbal communication, with focus on developing students' theoretical and practical knowledge of communication processes, principles, and strategies in nonverbal communication. Includes exploration of the connections between nonverbal communication and other areas of communication research and practice.

### **COMM 3330 Rhetoric in Western Thought**

Semester Credit Hours: 3 sch Introduces rhetoric and its role in the intellectual heritage of Western society. Students examine various perspectives and theories of rhetoric development from ancient Greece to contemporary times. Particular attention is paid to the role of rhetoric as a tool of civic activity. Fall

### **COMM 3331 Public Advocacy**

Semester Credit Hours: 3 sch Explores the public messaging strategy of corporations and other large organizations. Students investigate how research techniques used to identify public groups are transformed into message in various media. Emphasis is given both to relevant theoretical issues as well as to relevant professional skills.

### **COMM 3332 Advanced Public Address**

Semester Credit Hours: 3 sch Provides advanced practice-oriented instruction in speaking in the public setting. Students research, prepare, analyze, and present complex reports and speeches. Prerequisite(s): COMM 1315

### **COMM 3333 Political Communication**

Semester Credit Hours: 3 sch Explores the application of communication principles to election campaigns, debates, governance, and political advertising, with emphasis on the historical and contemporary uses of mass media in political process.

### **COMM 3341 Public Relations**

Semester Credit Hours: 3 sch Examines public relations principles and practices. Students are introduced to the history and development of public relations as a profession, to the range of responsibilities and functions that public relations practitioners assume in organizations, and to contemporary issues and trends in the practice of public relations.

### **COMM 3342 Crisis Communication**

Semester Credit Hours: 3 sch Provides study and practice of communication strategies involved in preparing for and responding to crises. While a wide range of crises are considered, the course pays particular attention to corporate crises.

### **COMM 3360 Theories of Communication**

Semester Credit Hours: 3 sch Survey of communication theory including approaches to understanding media influences on society and theories of human interaction. Prerequisite(s): 6 credit hours of COMM coursework. Fall

### **COMM 3370 Research Methods**

Semester Credit Hours: 3 sch Introduces students to research methods used in the communication field. Topics may include quantitative methods, interpretive methods, textual and archival research, and computer-assisted techniques. May be repeated for credit when topics vary.

### **COMM 3371 Rhetorical Criticism**

Semester Credit Hours: 3 sch Examines principles and practices of the analysis of rhetorical discourse. Students compare systems of rhetorical criticism and explore methodological issues and techniques for doing scholarly criticism.

### **COMM 3380 The Politics of National Memory**

Semester Credit Hours: 3 sch Explores issues of power in our nation's capital. Students study Washington D.C. via visits to sites around the city. One three-hour field trip a week for one semester. Taught in Washington D.C. Prerequisite(s): Consent of the department and acceptance in the Archer Fellowship Program. Fall

### **COMM 3381 Advocacy and Politics**

Semester Credit Hours: 3 sch An introduction to the issues faced with advocating for an issue, idea, or one's self. The course aims to have students grasp concepts they will see and experience during their internship in Washington D.C. Eight conference hours a day for six days, for the equivalent of three lecture hours a week for one semester. Taught in Washington D.C. Prerequisite(s): Consent of the department and acceptance in the Archer Fellowship Program. Fall

### **COMM 3382 The Policymaking Process**

Semester Credit Hours: 3 sch A brief introduction to the philosophical foundations of the federal system of the government. Taught in Washington D.C. Prerequisite(s): Consent of the department and acceptance in the Archer Fellowship Program. Fall

### **COMM 3389 Multilisting Course**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. Fall, Spring

### **COMM 3683 Archer Fellowship Internship**

Semester Credit Hours: 6 sch Internship with a federal government related agency or organization in Washington D.C. facilitated through the Archer Center's program in public policy. Students select their internships and are supervised by UTPB faculty members. Prerequisite(s): Consent from the department and acceptance to the Archer Fellowship Program. Fall

### **COMM 4323 Dark Side of Communication**

Semester Credit Hours: 3 sch Explores the dark side of human interaction, including relational transgressions, interpersonal violence, deception, and hurtful messages.

### **COMM 4326 Group Leadership**

Semester Credit Hours: 3 sch Explores the intersection of group communication theory and leadership theory. Students analyze and practice methods of leadership communication, including creative thinking models, decision-making techniques, and parliamentary procedure. Prerequisite(s): COMM 2333 or Permission of Instructor

### **COMM 4340 Organizational Communication**

Semester Credit Hours: 3 sch Examines the communicative constitution of organizations, including organizational membership, structure, and hierarchy; formal and informal communication networks; internal and external messages; the role of communication media; acculturation, training, and development; and current issues in the field. Fall

### **COMM 4350 Communication and Instruction**

Semester Credit Hours: 3 sch Explores how to communication functions instructional settings, with emphasis on instructor-learner interaction, designing and evaluating oral presentation assignments, dealing with communication apprehension, fostering effective listening, and conducting discussions.

### **COMM 4351 Health Communication**

Semester Credit Hours: 3 sch Surveys theory, research, and current issues in the field of health communication. Topics of discussion include communication between patients and providers, cultural and rhetorical concepts of illness and health; media messages and health campaigns; and communication in health care organizations.

### **COMM 4356 Argument and Persuasion**

Semester Credit Hours: 3 sch A detailed examination of the history and development of effective argument and persuasion. Emphasis will include theories of argument and their role in media and society. Fall

### **COMM 4360 Intercultural Communication**

Semester Credit Hours: 3 sch Examines theory and practice of interaction between and among cultural groups. Emphasis is given to how cultural assumptions affected human symbolic interaction and interpersonal relationship-building.

Spring

### **COMM 4381 Internship**

Semester Credit Hours: 3 sch Participation in and analysis of applied communication in a professional context.

Prerequisite(s): 18 Hours of COMM

### **COMM 4382 Contract Study**

Semester Credit Hours: 3 sch Advanced Independent study or research commensurate with a senior-level course.

### **COMM 4383 Current Topics in Sports Communication**

Semester Credit Hours: 3 sch An exploration of current topics in sports communication. Students will apply lessons learned in other communication courses to current events in sports. Prerequisite(s): COMM 1301

### **COMM 4390 Senior Seminar in Communication**

Semester Credit Hours: 3 sch Synthesizes information from the undergraduate program in communication and serves as a capstone course to the major. Topics may vary; course may be repeated for credit when topic varies.

Prerequisite(s): 18 Credit hours of COMM coursework.

## **Computer Science**

### **COSC 1335 Computers and Problem Solving**

Semester Credit Hours: 3 sch Introduction to basic issues related to computer aided problem solving. Computational problems will be studied using software packages, including spreadsheets and database systems. Use of the Internet and the World Wide Web, as problem solving resources is introduced. Basics of computer systems will be introduced. Same as Business Field of Study course COSC/BCIS 1305. Prerequisite(s): College Algebra or equivalent. Fall, Spring

### **COSC 1430 Introduction to Computer Science I**

Semester Credit Hours: 4 sch Computer organization, algorithm design, programming, and elementary data structures. Introduction to programming in a high-level language. Prerequisite or Corequisite: MATH 1332 or MATH 1324 or MATH 2412 or equivalent. Fall, Spring

### **COSC 2420 C Programming**

Semester Credit Hours: 4 sch Programming in C, investigating the characteristics and implementation.

Prerequisite(s): COSC 1430. Fall, Spring

### **COSC 2430 Introduction to Computer Science II**

Semester Credit Hours: 4 sch Continuation of COSC 1430. Data structures, data abstraction, information hiding. Advanced programming in the language of the current COSC 1430. Prerequisite(s): COSC 1430. Fall, Spring

### **COSC 3310 Digital Computer Organization**

Semester Credit Hours: 3 sch Design of arithmetic, control, and memory units, binary data representation, error-detecting and error-correcting codes. Prerequisite(s): COSC 2430. Fall, Spring

### **COSC 3312 Discrete Mathematics**

Semester Credit Hours: 3 sch Elementary logic, sets, functions, relations, permutations and combinations, modular arithmetic, graph theory and its applications. Prerequisite(s): MATH 2414. Fall

### **COSC 3315 Information Systems and Security**

Semester Credit Hours: 3 sch Computer systems and relationships between hardware and software components.

Emphasis on business system design and analysis and information security. Prerequisite(s): COSC 2430. Fall, Spring

### **COSC 3320 Python Programming**

Semester Credit Hours: 3 sch Python is a widely used language in many scientific areas for data exploration. This course is an introduction to the Python programming language. It covers data types, control flow, object-orientated programming, and popular library for data analysis. Prerequisite(s): COSC 2430 Fall

### **COSC 3420 Data Structures**

Semester Credit Hours: 4 sch Design and implementation of algorithms for handling data structures such as linear lists, linked lists, stacks, queues, graphs, trees and strings. Prerequisite(s): COSC 2430 and COSC 3312. Spring

### **COSC 4352 Robotics**

Semester Credit Hours: 3 sch This course introduces fundamental concepts and general principles of robotics. Topics include components of the robot, locomotion and classification, end of arm tooling, sensors and visions, peripheral systems, programming and file management. Prerequisite(s): COSC 1430, or permission of the instructor.

### **COSC 4361 Game Design and Production**

Semester Credit Hours: 3 sch This course aims at advanced game design and game programming. Students are expected to design, implement and test a three-dimensional game with interactivity, animation, sound, constraints, and networking capabilities. Besides software engineering and control/state aspects of developing a high-end video game is covered in this class. Fall, Spring

### **COSC 4362 Augmented and Virtual Reality**

Semester Credit Hours: 3 sch In this course, students will learn all hardware and software aspects of augmented reality and virtual reality in a hands-on manner. Also students will have the opportunity to conduct a term project to develop their own interactive AR/VR worlds based on the materials discussed in this class. Fall, Spring

### **COSC 4370 Data Communications**

Semester Credit Hours: 3 sch Theory and techniques related to signal transmission, transmission media, signal encoding, interfacing, data link control and protocols. Prerequisite(s): COSC 3310 and permission of the instructor. Fall

### **COSC 4375 Intro to Computer Security**

Semester Credit Hours: 3 sch A consideration of security problems in computing, with emphasis on legal issues. Topics include cryptography fundamentals and data security, security of cryptosystems, operating system security, malware, network security, web security, security models and practices, distributed applications security, such as database security, email security, and social networking. Spring

### **COSC 4380 Cryptography**

Semester Credit Hours: 3 sch This course is intended as an introduction to cryptography. The students will learn history of cryptography, symmetric and asymmetric, digital signatures, authentication, identification, and network applications to cryptography. Fall, Spring

### **COSC 4385 Data Science**

Semester Credit Hours: 3 sch This course is intended as an introduction to basics of data science and data analytics for handling of massive databases. Students are expected to learn the fundamental techniques and tools used to design and analyze large volumes of data. Prerequisite(s): COSC 3312 Spring

### **COSC 4386 Big Data Analytics**

Semester Credit Hours: 3 sch This course covers the concepts of data mining for big data analytics. Students are expected to learn a broad understanding of the principles underlying big data analytics and its applications in different domains. Prerequisite(s): COSC 3315 Fall

### **COSC 4389 Multi Listing**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog and may be acceptable for graduate credit. Spring

### **COSC 4391 Contract Study**

Semester Credit Hours: 3 sch Advanced independent study or research course Fall, Spring

### **COSC 4395 Research**

Semester Credit Hours: 1-3 sch Research in a selected field of computer science. Prerequisite(s): consultation with the major advisor and permission of the research sponsor. May be repeated for credit. Fall, Spring

### **COSC 4415 Database Systems**

Semester Credit Hours: 4 sch Introduction to database design and implementation using the ER model. Relational model concepts, constraints and relational algebra. Normalization, optimization and concurrency. Prerequisite(s): COSC 3315 Fall

### **COSC 4430 Operating Systems**

Semester Credit Hours: 4 sch This course examines the theory and practice behind modern computer operating systems. Topics include what an operating system does do, system calls and interfaces, processes, concurrent programming, resource scheduling and management (of the CPU, memory, etc.), virtual memory, deadlocks, distributed systems and algorithms, programming in UNIX, and security. We will approach the subject from both a theoretical perspective as well as a practical one. Prerequisite(s): COSC 3310 and COSC 3420. Fall

### **COSC 4455 Multimedia and Web Development**

Semester Credit Hours: 4 sch Use of software development tools for construction of multimedia and Web pages, including an introduction to HTML and XML. Students will utilize industry standard tools for processing graphics, animation, audio, and video. Prerequisite(s): COSC 3315. Summer

### **COSC 4460 Software Engineering**

Semester Credit Hours: 4 sch Fundamental Concepts and General Principles for software systems development. Visual modeling, software development life cycles, CASE tools, Web-based information systems. Prerequisite(s): COSC 3315. Spring

### **COSC 4470 Applied Network Security**

Semester Credit Hours: 4 sch This course provides a practical overview of network security and related topics. General threat classifications are discussed as they relate to the CIA triad: eavesdropping (confidentiality), man-in-the-middle (integrity), and denial-of-service (availability). Real-world attack incidents and implementations are used to tie concept to reality. Hands-on labs and exercises are used to reinforce lectures and provide practical implementation experience. Spring

### **COSC 4475 Distributed Systems**

Semester Credit Hours: 4 sch An introduction to the concepts of distributed processing. Topics include distributed architectures, distributed operating systems and programming languages, and distributed algorithms. Prerequisite(s): COSC 3310, COSC 3420

### **COSC 4480 Programming Languages**

Semester Credit Hours: 4 sch Fundamental concepts and general principles underlying the structure of high level programming languages in current use. Prerequisite(s): COSC 3420, knowledge of two high level programming languages. COSC 3310 is recommended. Fall

### **COSC 4485 Mobile Application Development**

Semester Credit Hours: 4 sch This course introduces the unique methodologies necessary for developing dedicated and client-server applications that target smartphones, table computers, and other mobile devices. Course will cover the fundamental features of mobile device operation system and mobile applications, as well as the latest hardware capabilities. Prerequisite(s): COSC 3310, COSC 3420 or permission of the instructor. Spring

### **COSC 4490 Introduction to Game Development**

Semester Credit Hours: 4 sch This course will introduce the theory, design, and development of computer games. Topics include player motivation, game elements, characters, game play, level design, interface design, project management, and production through the use of animation and interactive programming. Prerequisite(s): COSC 3310 and instructor permission.



# Criminology and Criminal Justice Studies

## **CCJS 1301 Intro Criminal Justice Studies**

Semester Credit Hours: 3 sch An overview of theories and patterns of criminal behavior as well as an overview of the entire criminal justice system: history and development, law enforcement, prosecution and defense, courts and trial processes and corrections.

## **CCJS 1331 Court Systems and Practices**

Semester Credit Hours: 3 sch An overview of the federal and state court systems. The course identifies the role of judicial officers and the trial process from pretrial to sentencing and examines the types of rules of evidence.

## **CCJS 1332 Fundamentals of Criminal Law**

Semester Credit Hours: 3 sch The study of criminal law including application of definitions statutory elements, defenses and penalties using Texas statutes, the Model Penal Code and case law.

## **CCJS 1361 Intro to Criminal Justice**

Semester Credit Hours: 3 sch An overview of the entire criminal justice system: history, development, law enforcement, prosecution and defense, courts and trial processes, and corrections.

## **CCJS 2313 Corrections Systems and Practices**

Semester Credit Hours: 3 sch The course focuses on the relation of corrections to the criminal justice system, theories underlying correctional practice, and the role of institutions within the corrections system.

## **CCJS 2320 Police and Society**

Semester Credit Hours: 3 sch Examination of the role of police in a democratic society. Topics include professionalism, police discretion, police-community relations, police minority relations, use of force, and control of police behavior as well as other selected contemporary issues.

## **CCJS 2341 Police Systems and Practices**

Semester Credit Hours: 3 sch This course examines the establishment, role and function of police in a democratic society. It will focus on types of police agencies and their organizational structure, police-community interactions, police ethics, and use of authority. Describe means and methods utilized to ensure police accountability.

## **CCJS 3301 Principles in American Justice**

Semester Credit Hours: 3 sch This survey course will explore the theory and practice of the creation and the administration of law and society's response to deviance and lawbreaking.

## **CCJS 3302 Research Methods**

Semester Credit Hours: 3 sch This course introduces students to the research methodology used in criminal justice research. Emphasis is on the development of a general understanding of why and how research can be and is conducted in the field of criminology and criminal justice.

## **CCJS 3305 Policing in America**

Semester Credit Hours: 3 sch A systematic review of the role of law enforcement in contemporary American society. Differing points of view will be critically discussed. The focus of the course will include federal, state, and local law enforcement.

## **CCJS 3320 Juvenile Delinquency and Justice**

Semester Credit Hours: 3 sch A study of the juvenile justice system, theories of causation, the distribution and frequency of delinquency, correctional treatment, and prevention in modern society.

## **CCJS 3340 Municipal Police Administration**

Semester Credit Hours: 3 sch An overview of police supervision and administrative practices with a special emphasis upon innovative patrol, tactical and investigative administrative procedures, problems and special issues in police administration are also considered and evaluated.

### **CCJS 3341 Human Trafficking**

Semester Credit Hours: 3 sch Human Trafficking is an upper-level undergraduate course designed to help students gain a better understanding of contemporary human trafficking and modern-day slavery.

### **CCJS 3342 White Collar Crime**

Semester Credit Hours: 3 sch The term "white-collar" refers to many different forms of illegal activity. The course will examine how white-collar crime is defined and understood in the law and other disciplines. The course looks at differences and similarities with other criminal activities. Who are its victims; what are the costs of white-collar crime.

### **CCJS 3343 Frontier Law and Justice**

Semester Credit Hours: 3 sch An examination of the law enforcement officers on the Western Frontier. The responsibilities, experiences, tactics, political environment, challenges, and day-to-day life of the frontier sheriff with particular emphasis on Texas, Arizona, and New Mexico Territories. This course is writing-intensive.

### **CCJS 3360 Criminal Justice Administration**

Semester Credit Hours: 3 sch Administrative problems and their solutions in correctional and law enforcement programs.

### **CCJS 3361 Child Abuse and Neglect**

Semester Credit Hours: 3 sch The overall objective of this course is to help students develop an understanding of the various forms of child abuse, identify the underlying causes of this multifaceted problem, and to appropriately identify the types of services that will benefit maltreated children and their families. The nature and impact of child maltreatment.

### **CCJS 3362 Social Deviance**

Semester Credit Hours: 3 sch Study of societal definitions and reactions to deviant acts in relationship to ethnicity, social class and legal institutions.

### **CCJS 3363 Victimology**

Semester Credit Hours: 3 sch This course is designed to introduce the student to the topic of victimology. Victimology is the scientific study of victims. Most criminal justice courses focus on the offender, this course focuses on the victim.

### **CCJS 3365 Crisis Response**

Semester Credit Hours: 3 sch This course is designed to introduce the student to the phenomenon of crisis. The various methods and techniques employed by criminal justice professionals to contain and de-escalate crisis situations.

### **CCJS 3366 Intelligence and National Security**

Semester Credit Hours: 3 sch An examination of the intelligence community and its influence on national security. The course includes a discussion on the role of intelligence in democratic society.

### **CCJS 3389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate course which will be offered only once or will be offered infrequently or which is being developed before regular listing of the course.

### **CCJS 4303 Theories of Criminal Behavior**

Semester Credit Hours: 3 sch Principal theories of criminality and the criminal justice system and the application of these theories to the prevention and control of crime.

### **CCJS 4304 Civil Liability In Criminal Justice**

Semester Credit Hours: 3 sch This is an introduction to the concept of civil liability in the criminal justice system. The primary focuses are on law enforcement and corrections. Among the topics discussed are the foundations of civil liability, the differences between criminal and civil jurisprudence, and the most common sources of liability exposure in law enforcement and corrections. Actual cases will be reviewed.

### **CCJS 4306 Corrections in America**

Semester Credit Hours: 3 sch Overview of social, cultural, behavioral, political, psychological, sociological and economic causative factors of crime. Appraisal of correctional methods involved in prisons, probation, parole, work-release, halfway houses, community-based corrections and other settings.

### **CCJS 4307 Senior Internship**

Semester Credit Hours: 3 sch A supervised field experience in a criminal justice, juvenile justice, or social service agency. The student works at least 120 hours under the supervision of an onsite agency supervisor, meets with the course instructor biweekly, and submits a short written assignment at the end of the semester.

### **CCJS 4308 Senior Seminar**

Semester Credit Hours: 3 sch A senior level seminar course in which students will review and integrate their coursework towards a CCJS degree. This course is available to students who are unable to complete the Senior Internship and must be taken in the student's final semester of study.

### **CCJS 4330 Constitutional Law**

Semester Credit Hours: 3 sch Study of Constitutional Law, its philosophical and historical development, major definitions and concepts, classification and elements of crime, penalties using Texas Statutes and illustrations and criminal responsibility.

### **CCJS 4331 Death Penalty**

Semester Credit Hours: 3 sch This course is designed to provide students with an understanding of the role of the death penalty in the criminal justice system and to create an environment where students are encouraged to express their ideas and make compelling arguments about the utility of the death penalty as a form of punishment.

### **CCJS 4340 Violence and Murder in the Family**

Semester Credit Hours: 3 sch The purpose of this course is to provide the student with an overview of the theoretical paradigms examining the definitions of, causes of, and interventions for family violence with specific emphasis on parents who kill their children/step-children.

### **CCJS 4341 Terrorism**

Semester Credit Hours: 3 sch This is an introductory course in terrorism. Covered topics include: definitions, origins and history, causes, the role of the media, types of terrorism (state, religious, international, and domestic), counter-terrorism, homeland security and future trends.

### **CCJS 4342 Police and the Community**

Semester Credit Hours: 3 sch Examination of the role of police in a democratic society. Topics include professionalism, police discretion, police-community relations, police minority relations, use of force, and control of police behavior as well as other selected contemporary issues.

### **CCJS 4343 Transnational Crime**

Semester Credit Hours: 3 sch An overview of transnational crime and its effects on the political, economic, and social development of countries around the world.

### **CCJS 4344 Border Security**

Semester Credit Hours: 3 sch This course focuses on a comprehensive overview of border security. Border security is seen as a fundamental component of homeland security as such a wide variety.

### **CCJS 4345 Profiling**

Semester Credit Hours: 3 sch This course explores criminal behavior motivation environmental influences and offending patterns. Other topics examined are the approaches to profiling and how these investigative techniques are applied to solve crimes. This is a writing-intensive course.

### **CCJS 4360 Ethics in Criminal Justice**

Semester Credit Hours: 3 sch An examination of major ethical issues confronted by persons who work in the criminal justice system. Important appellate court decisions pertaining to those issues will also be reviewed.

### **CCJS 4361 Drugs and Behavior**

Semester Credit Hours: 3 sch This course explores the origins, categories and treatments on mental, emotional and behavioral disorders ranging from relatively mild stress and anxiety disorders to the more severe schizophrenia and organic mental disorders.

### **CCJS 4363 Issues in Criminology and Criminal Justice**

Semester Credit Hours: 3 sch Survey of major philosophical, moral, and administrative issues in criminology and criminal justice. Specific topics may change as the issues and problems that confront the justice system change.

### **CCJS 4364 Comparative Criminal Justice**

Semester Credit Hours: 3 sch This course is designed to provide students with a thorough and critical understanding of the history, philosophy, principles, and organizational structures of criminal justice systems from around the world and comparing them with the model in the United States.

### **CCJS 4388 Contract Study**

Semester Credit Hours: 3 sch Advanced independent study or research.

### **CCJS 4389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate course which will be offered only once or will be offered infrequently or which is being developed before regular listing of the course.

## **Drama**

### **DRAM 1305 Production Internship**

Semester Credit Hours: 1-3 sch Student will designate a focus and design and carry out a project in technical production work at Founders' Theatre. May be repeated for credit up to a maximum of three hours. Spring

### **DRAM 1310 Introduction to Theatre Arts**

Semester Credit Hours: 3 sch Introduction to Theatre Arts provides students the opportunity to learn to engage in the collaborative arts which are put into practice in the crafting of a stage production: dramatic writing, theatrical design and technology, acting and directing. Students undertake short projects in each of these fields and then work as a group to mount a performance at semester's end. Fall, Spring

### **DRAM 3305 Advanced Internship**

Semester Credit Hours: 1-3 sch Student will carry out an advanced project in design or technology at Founders' Theatre or other local theatres. Prerequisite(s): DRAM 1305 or instructor's permission. May be repeated up to a maximum of three hours. Fall

### **DRAM 3310 Tragedy and Melodrama**

Semester Credit Hours: 3 sch Transnational genre course surveying serious dramatic literature from Greek to present-day playwrights. Prerequisite(s): any 2000 level English course Spring

### **DRAM 3311 Drama: Comedy**

Semester Credit Hours: 3 sch Transnational genre course surveying comic drama from Greek to present-day playwrights. Prerequisite(s): any 2000 level English course Summer

### **DRAM 4305 American Drama**

Semester Credit Hours: 3 sch Historical development of American drama: types of dramatic literature and masterpieces in American drama. Prerequisite(s): ENGL 3300

### **DRAM 4365 Shakespeare**

Semester Credit Hours: 3 sch A study of Shakespearean drama organized around a genre or a theme. Prerequisite(s): ENGL 3300 May be repeated. Spring

# Economics

## **ECON 2301 Principles of Macroeconomics**

Semester Credit Hours: 3 sch A description of major economic problems facing modern societies is presented together with how the capitalistic market system addresses these issues. The emphasis is on macroeconomics theory and practice. Prerequisite(s): MATH 1314 or higher or Sophomore standing. Fall, Spring

## **ECON 2302 Principles of Microeconomics**

Semester Credit Hours: 3 sch Individual consumer and producer choices are analyzed. Emphasis is placed on supply and demand relationships, utility concepts, and cost and revenue curves as they relate to price theory and various forms of competition. Completion of ECON 2301 is recommended, but not required. Prerequisite(s): MATH 1314 or higher or Sophomore standing. Fall, Spring

## **ECON 3302 Intermediate Microeconomics**

Semester Credit Hours: 3 sch A detailed study of the underlying assumptions of rational consumer behavior is studied. This is combined with the expected actions of profit-motivated firms under perfect and imperfect competitive conditions to analyze economic efficiency of different market structures. Prerequisite(s): ECON 2302 Spring

## **ECON 3322 Money and Banking**

Semester Credit Hours: 3 sch The course describes how banks, the Federal Reserve and U.S. Treasury interact to determine money supplies. Recent and current attempts to control inflation and unemployment are highlighted. Prerequisite(s): ECON 2301 and ECON 2302. Fall

## **ECON 4307 Econometrics I**

Semester Credit Hours: 3 sch The course focuses on applied econometrics including estimating and testing simple, multiple, and simultaneous equation models. It further covers problems in multicollinearity, heteroskedasticity, and auto correlation. Multiple restriction tests are presented. Alternative estimation techniques to ordinary least squares, such as generalized least squares and maximum likelihood estimation, are presented. Prerequisite(s): BUSI 2342 Spring

## **ECON 4308 Econometrics II**

Semester Credit Hours: 3 sch This course is an extension of Econometrics I and covers the common sources of endogeneity bias and causal inference in applied microeconometrics. Special attention is given to instrumental variables, generalized methods of moments, regression discontinuity designs, differences-in-differences, and propensity score matching. Simultaneous equations are extended beyond Econometrics I in advanced time series. Prerequisite(s): ECON 4307 Fall

## **ECON 4309 Econometrics III**

Semester Credit Hours: 3 sch This course is an extension of Econometrics I and II (ECON 4307 and ECON 4308) and covers estimation procedures: generalized method of moments, IV estimation, semi and non-parametric regression. Vector auto regressive and ARIMA models are discussed. GARCH and other panel data models are presented. Oaxaca decompositions. Big Data and Machine Learning are covered. Prerequisite(s): ECON 4307 and ECON 4308 Spring

## **ECON 4320 International Trade**

Semester Credit Hours: 3 sch An examination of the monetary and real aspects of trade, including foreign exchange rates, balance of payments problems, and the theories concerning the reasons for trade. Prerequisite(s): ECON 2301 and ECON 2302.

## **ECON 4323 Intermediate Macroeconomics**

Semester Credit Hours: 3 sch Theories of output, employment, price level and growth rate are developed. Relationships between accepted theories and actual data in recent years are analyzed. Prerequisite(s): ECON 2301. Fall

## **ECON 4330 Economics of Industry**

Semester Credit Hours: 3 sch A study is made of the market processes which direct industry to satisfy societal demands, how these processes may fail, and possible remedies. Prerequisite(s): ECON 2301; ECON 2302 Spring

### **ECON 4331 Law and Economics**

Semester Credit Hours: 3 sch The course covers common law allocative mechanisms of contract, tort, and property law as alternatives to collective intervention when markets fail. It also includes consideration of the economic logic of law. Prerequisite(s): ACCT 2301 and ECON 2302. Fall

### **ECON 4332 Labor Economics**

Semester Credit Hours: 3 sch Course includes the study of labor market issues such as human capital, compensating wage differentials, migration, and the effects of institutions on labor market outcomes. It is recommended to any one who wants to understand the nature of labor market economics but is particularly valuable to potential managers. Prerequisite(s): ECON 2301 and ECON 2302. Spring

### **ECON 4333 Business and Economic History**

Semester Credit Hours: 3 sch The course covers the transformation of the United States from a rural, agricultural colony to a major industrial nation and its impact on households, firms, and governmental units. It emphasizes economic growth and the evolution of the modern corporation. Prerequisite(s): ECON 2301 and ECON 2302. Fall

### **ECON 4334 Financial Economics**

Semester Credit Hours: 3 sch Course includes the economic theory that underscores modern finance. Topics include portfolio theory, the capital asset pricing model, efficient market hypothesis, asset evaluation, the bond market, and an introduction to option pricing theory. Prerequisite(s): ECON 2302. Spring

### **ECON 4335 Mathematical Economics**

Semester Credit Hours: 3 sch Select topics illustrating the application of mathematics to economic theory. Topics include linear algebra, differential and integral calculus, constrained optimization and differential equations. This course is intended for upper division business, economics, engineering, and mathematics students. Prerequisite(s): MATH 1325. Spring

### **ECON 4336 History and Philosophy of Economic Thought**

Semester Credit Hours: 3 sch This course presents the various philosophical approaches within economics against their historical development. Classical economic doctrines of Smith and Marx are discussed, followed by the modern history of economic thought in the Keynesian, Schumpeterian, and Chicago Schools. The mathematical and microeconomic historical development of Paul Samuelson and Gary Becker are emphasized. Attention is also given to the history of econometrics. Prerequisite(s): ECON 2301 Fall, Spring

### **ECON 4337 Energy Economics**

Semester Credit Hours: 3 sch Energy economics uses the broad array of economic tools to examine consumer demand, firm supply, regulation, and how they interact in markets. Theoretical and empirical topics related to oil, electricity, and renewables are considered. The structure of the energy industry is examined. The structure of the energy industry is examined: externalities, environmental concerns, history, health, and government regulation are core topics. Fall, Spring

### **ECON 4389 Selected Topics in Economics**

Semester Credit Hours: 3 sch These are undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. Prerequisite(s): varies. Spring

### **ECON 4391 Contract Study in Economics**

Semester Credit Hours: 3 sch This course provides for individual independent study or research project that addresses a topic not offered in the curriculum. Prerequisite(s): varies. Fall, Spring

### **ECON 4392 Internship**

Semester Credit Hours: 3 sch A supervised field and academic experience. Prerequisite(s): Twelve credit hours of ECON and minimum GPA of 2.5 overall and 2.75 in the major; and permission of academic advisor and faculty internship advisor. May be repeated once for credit for distinctly different learning experiences.

# Education

## **EDUC 2101 Introduction to Math and Science Teaching**

Semester Credit Hours: 1 sch Students are introduced to the theory and practice of inquiry-based mathematics and science instruction. Students are provided with the opportunity to explore teaching by observing and teaching short lessons in elementary classrooms. Exploratory course, open to all majors interested in math or science teaching.

## **EDUC 2202 Lesson Design in Math and Science Teaching**

Semester Credit Hours: 2 sch Students gain familiarity with inquiry-based mathematics and science curricula. Students are given the opportunity to observe and teach short lessons in middle school classrooms. Prerequisite(s): EDUC 2101

## **EDUC 2305 Preparing for Inquiry Based Math and Science Teaching**

Semester Credit Hours: 3 sch Students are introduced to inquiry-based mathematics and science instruction and curricula. Students are given the opportunity to observe and teach lessons in elementary and middle school classrooms. May be taken in lieu of EDUC 2101 and 2202

## **EDUC 3308 Introduction to Early Childhood Education**

Semester Credit Hours: 3 sch This course is an introduction to the education of the young child, including developmentally appropriate practices and programs for children from birth through age eight, theoretical and historical perspectives, ethical and professional responsibilities, and current issues. Fall, Spring CHLD 3308

## **EDUC 3309 Family and School Interactions**

Semester Credit Hours: 3 sch This course is a study of the child, family, community, and school, including parent education and involvement, family and community lifestyles, child abuse and neglect, and current family life issues. Fall, Spring CHLD 3309

## **EDUC 3322 Literature in the Classroom**

Semester Credit Hours: 3 sch This course provides an overview of literature intended for use in classrooms with preschool through adolescent learners. The focus is on the history and genres of classroom literature, and current trends and strategies for effective selection and use of literature in teaching. Prerequisite or Corequisite: PSYC 3341 or equivalent or permission of instructor. Fall, Spring, Summer

## **EDUC 3352 The Exceptional Child**

Semester Credit Hours: 3 sch This course will present the pre-service teacher with a general overview of exceptionalities of children and youth to include characteristics, etiology, and educational programs and practices. Topics will also include historical and legislative events affecting special education and an overview of the special education process including referral, screening, assessment and educational planning. Fall, Spring, Summer

## **EDUC 4099 Seminar: Student Teaching**

Semester Credit Hours: 0 sch This course provides student teachers with opportunities for synthesis and reflection as they integrate practicum experiences with their professional education course work. Learner-centered practices are emphasized. Candidates must pass the appropriate TExES exams to complete the course. Corequisite(s): Enrollment in Student Teaching. Fall, Spring

## **EDUC 4310 Early Intervention**

Semester Credit Hours: 3 sch This course focuses on issues related to young children who exhibit atypical development including the roles that families and professionals in the field play in facilitating development. Prerequisite(s): PSYC 3341 and EDUC 3352, or permission of the instructor. Summer

## **EDUC 4311 ECE: Social and Emotional Development**

Semester Credit Hours: 3 sch This course focuses on social-emotional development in young children. Emphasis is on using knowledge of social-emotional development to establish a positive learning environment and to implement effective classroom management. Prerequisite(s): PSYC 3341, or permission of the instructor. Fall, Spring, Summer

### **EDUC 4312 ECE: Curriculum and Instruction**

Semester Credit Hours: 3 sch This course introduces the student to strategies practiced in early childhood classrooms. Emphasis is on designing developmentally appropriate, learner-centered experiences and assessments for young children, which are aligned with state standards. A field experience is required. TExES pre-tests may be required. Prerequisite(s): Admission to Teacher Certification Program, EDUC 3322, EDUC 4311. Fall, Spring

### **EDUC 4313 Emergent Literacy**

Semester Credit Hours: 3 sch This course focuses on the development of literacy (reading, writing, listening, and speaking) in young children and the ways in which teachers can facilitate this development. Forms of assessment and the use of phonics with young children are also studied. Fall, Spring, Summer

### **EDUC 4314 Language Development in the Young Child**

Semester Credit Hours: 3 sch This course studies the nature of language and the acquisition of language by the young child. Topics included are: (1) language structure, (2) sequence and process of the acquisition of language, (3) cognitive aspects of language acquisition and implementation, (4) social aspects of language in childhood, and (5) language variation. Prerequisite(s): PSYC 3341, or permission of the instructor. Fall, Spring

### **EDUC 4315 Cognition and Biliteracy**

Semester Credit Hours: 3 sch This course introduces the student to the cognitive and linguistic process of learning to read and write in two languages simultaneously. Included are overviews of multicultural literature, Spanish language arts models, linguistics, and grammar. A field experience is required. Prerequisite(s): Spanish proficiency; Admission to Teacher Certification Program or permission of instructor. Fall

### **EDUC 4317 Second Language Acquisition Principles EC-6**

Semester Credit Hours: 3 sch This course focuses on the process of acquiring a second language in early childhood, including theories and stages of second language proficiency and methodology for teaching second language learners. A field experience is required. Prerequisite(s): Admission to Teacher Certification Program and EDUC 4314 or EDUC 4329. Fall, Spring

### **EDUC 4321 Classroom Instruction and Management: Grades 4-8**

Semester Credit Hours: 3 sch The course introduces prospective middle school teachers to effective practices for classroom instruction and management. The practices include addressing curriculum and instruction by establishing positive learning environments, designing and implementing assessments, planning lessons, and appropriately integrating technology into learning activities. A field experience is included. Prerequisite(s): Admission to Teacher Certification Program. Fall

### **EDUC 4322 Classroom Instruction and Management: Grades 7-12**

Semester Credit Hours: 3 sch This course introduces prospective secondary teachers to effective practices for classroom instruction and management. The practices include addressing curriculum and instruction by establishing positive learning environments, designing and implementing assessments, planning lessons, and appropriately integrating technology into learning activities. A field experience is included. Prerequisite(s): Admission to Teacher Certification Program. Fall

### **EDUC 4323 Adolescent Literature in the Classroom**

Semester Credit Hours: 3 sch This course prepares candidates to analyze and select adolescent literature for use in the classroom during read-alouds and in shared, interactive, guided, and independent reading. Candidates will participate in literacy circles, and read and discuss themes and representation in literature from a variety of genres for young adults. Candidates will learn strategies that aid in building reading comprehension through adolescent literature. Prerequisite(s): PSYC 3341 or equivalent, or permission of instructor. Summer

### **EDUC 4324 Reading Development in Primary Grades**

Semester Credit Hours: 3 sch This course addresses reading development, methods of reading instruction, and sequence of instruction for the primary classroom. Candidates develop understanding of emergent reading, development of phonemic awareness, decoding and word analysis, fluency, and meaning construction. Field experience is included. Prerequisite(s): EDUC 3322 and EDUC 4313; Admission to Teacher Certification Program. Fall, Spring



### **EDUC 4325 Reading in the Middle Grades**

Semester Credit Hours: 3 sch This course addresses basic methods, trends, recent materials, and issues in reading and literacy for the middle grades. The emphasis is on strategic reading and the reading comprehension process, with an introduction to process writing across the curriculum. A field experience is included. Prerequisite(s): EDUC 3322 or EDUC 4323; Admission to Teacher Certification Program. Fall, Spring

### **EDUC 4326 Reading in the Content Areas**

Semester Credit Hours: 3 sch This course focuses on methods of integrating reading and literacy into the content areas for grades 4-12. It emphasizes ongoing assessment and planning developmentally appropriate learning experiences for students. A field experience is included. Prerequisite(s): Admission to Teacher Certification Program. Fall, Spring

### **EDUC 4327 Literacy Assessment and Intervention**

Semester Credit Hours: 3 sch Students in this course learn a variety of means to assess literacy ability and develop instructional interventions to address identified areas of need to promote learners' success. Cognitive, sociocultural, and affective factors related to the child's literacy development are addressed. Prerequisite(s): Admission to Teacher Certification Program; EDUC 4324 or EDUC 4325 or EDUC 4326, or permission of instructor. Fall, Spring

### **EDUC 4329 First and Second Language Acquisition**

Semester Credit Hours: 3 sch This course focuses on the processes of acquiring one's native language as well as a second language, including the theories, stages and connections between oral language and literacy. Prerequisite(s): PSYC 3341 or equivalent, or permission of Instructor. Spring

### **EDUC 4333 Theory and Practice of Teaching: Elementary Physical Education**

Semester Credit Hours: 3 sch This course focuses on elementary school physical education instruction and management. Emphasis is on the development of teaching skills associated with effective physical education practices, development of pedagogical knowledge, systematic observation and reflective skills. Field-based experience is required. Prerequisite(s): Admission to Teacher Certification Program. Spring

### **EDUC 4334 Theory and Practice of Teaching: Secondary Physical Education**

Semester Credit Hours: 3 sch This course focuses on secondary school physical education instruction and management. Emphasis upon development of teaching skills associated with effective physical education practices, development of pedagogical knowledge, systematic observation and reflective skills. Field-based experience is required. Prerequisite(s): Admission to Teacher Certification Program. Fall

### **EDUC 4336 Issues of Multilingualism**

Semester Credit Hours: 3 sch This course focuses on the interrelationships of language, culture, and learning in educational settings for second language learners. Prerequisite(s): Admission to Teacher Certification Program. Fall

### **EDUC 4341 Knowing and Learning**

Semester Credit Hours: 3 sch This course addresses psychological foundations of learning, problem-solving in mathematics and science education, types of scientific and mathematical reasoning, and an introduction to formative and summative assessment. Prerequisite(s): EDUC 2202; EDUC 2305.

### **EDUC 4342 Classroom Interactions**

Semester Credit Hours: This course addresses principles of effective instruction in various formats, what each format requires of teachers, and the corresponding interactions that occur in mathematics and science classrooms. Issues of equity and diversity and methods of classroom management in classroom teaching are addressed. Field experience at the high school level is included. Prerequisite(s): EDUC 2202 or EDUC 2305; EDUC 4341.

### **EDUC 4343 Multiple Teaching Practices in Math and Science Teaching**

Semester Credit Hours: 3 sch This course address multiple research-based teaching practice that are effective in mathematics and science teaching, principles of project-based curriculum development, classroom management, and the use of assessment to improve student learning. Field experience at the middle school and/or high school level is included. Prerequisite(s): EDUC 4342.

### **EDUC 4352 Collaborative Teaching and Inclusive Practices**

Semester Credit Hours: 3 sch This course will examine the teacher's role in collaborating with parents, teachers, and other professionals in the design of a classroom learning community promoting success for students with disabilities in the general education setting. Prerequisite(s): EDUC 3352. Spring

### **EDUC 4354 Teaching Students with High and Low Incident Disabilities**

Semester Credit Hours: 3 sch This course examines typical characteristics associated with high and low incidence disabilities, identification procedures used, and the development of appropriate, research based intervention programs. This course also focuses on the use of formal and informal assessment to evaluate the instructional process and student progress. Field experience is required. Prerequisite(s): EDUC 3352. Summer

### **EDUC 4356 Behavior Management**

Semester Credit Hours: 3 sch The focus of the course will be on developing behavior management strategies for individual learners who present challenging behaviors in the classroom or in community settings. This course explores strategies for behavior management, functional behavior assessment, positive behavior supports, and social skills training for exceptional learners. Fall, Spring

### **EDUC 4362 Foundations of Bilingualism and Multiculturalism**

Semester Credit Hours: 3 sch This course focuses on the linguistic, developmental, political, social, and educational implications of bilingualism and multiculturalism in American society. Legal, ethical, and political issues are explored. Lesson planning and curriculum development pertaining to bilingual and multicultural populations will be introduced. Prerequisite or Corequisite: PSYC 3341 or equivalent. Fall, Spring, Summer

### **EDUC 4363 Methods of Teaching in the Bilingual Classroom**

Semester Credit Hours: 3 sch Students examine content area theory and methods for bilingual education programs in elementary schools. Included are models, curriculum development, Spanish vocabulary, materials, teaching strategies and evaluations. A field experience is required. Spanish proficiency; Admission to the Teacher Certification Program; EDUC 3322, EDUC 4312, EDUC 4313, EDUC 4329, EDUC 4315. Prerequisite or Corequisite: EDUC 4317. Spring

### **EDUC 4370 Teaching Social Studies: Grades 7-12**

Semester Credit Hours: 3 sch This course addresses the methods of teaching social studies in grades 7-12. Candidates participate in unit planning, the writing process for student research papers, and hands-on comprehension strategies for teaching social studies. A field experience is required. Admission to the Teacher Certification Program and taking appropriate TExES diagnostic pretests. Prerequisite or Corequisite: EDUC 4322, EDUC 4326. Spring

### **EDUC 4371 Teaching English Language Arts: Grades 7-12**

Semester Credit Hours: 3 sch This course addresses the methods of teaching English language arts in grades 7-12. Candidates participate in the writing process, research, unit planning, and hands-on comprehension strategies for teaching English and language arts. A field experience is required. Admission to the Teacher Certification Program and taking appropriate TExES diagnostic pretests. Prerequisite or Corequisite: EDUC 4322, EDUC 4323, EDUC 4326. Spring

### **EDUC 4372 Teaching Mathematics and Science: EC-6**

Semester Credit Hours: 3 sch This course addresses the methods of teaching math and science in early childhood and elementary classrooms. The emphasis is on planning and providing developmentally appropriate learning experiences in an effective and supportive learning environment. A field experience is included. Admission to the Teacher Certification Program, taking appropriate TExES diagnostic pretests, and completion of the Block II Courses. Prerequisite or Corequisite: EDUC 4324 or EDUC 4315. Fall, Spring

### **EDUC 4373 Teaching Language Arts and Social Studies: EC-6**

Semester Credit Hours: 3 sch This course addresses the design and organization of content, materials, and instructional strategies for language arts and social studies programs in early childhood - grade 6 classrooms. The emphasis is on integrating language arts and social studies content areas to plan developmentally appropriate learning experiences for students. A field experience is included. Admission to the Teacher Certification Program, taking appropriate TExES diagnostic pretests, and completion of the Block II courses. Prerequisite or Corequisite: EDUC 4324 or EDUC 4315. Fall, Spring

### **EDUC 4374 Teaching Mathematics and Science: Grades 4-8**

Semester Credit Hours: 3 sch This course addresses the methods of teaching math and science in intermediate and middle school classrooms. The emphasis is on planning and providing developmentally appropriate learning experiences in an effective and supportive learning environment. Field experience is included. Prerequisite(s): Admission to Teacher Certification Program, taking appropriate TExES diagnostic pretests, and completion of Block II courses. Co/EDUC 4325 and EDUC 4326. Spring

### **EDUC 4375 Teaching English Language Arts and Social Studies: Grades 4-8**

Semester Credit Hours: 3 sch This course addresses the methods of teaching language arts and social studies in the intermediate and middle grades. The emphasis is on integrating reading and process writing into language arts and social studies and planning developmentally appropriate learning experiences for students. A field experience is included. Prerequisite(s): Admission to the Teacher Certification Program, taking appropriate TExES diagnostic pretests, and completion of Block II courses. Co/EDUC 4325 and EDUC 4326. Fall

### **EDUC 4376 Teaching Science: Grades 7-12**

Semester Credit Hours: 3 sch This course addresses the methods of teaching science in secondary schools. Candidates participate in unit planning, a research project, a lab safety module, the use of instructional technology, and interactive modeling of methods for teaching science. A field experience is included. Prerequisite(s): Admission to the Teacher Certification Program and taking the appropriate TExES diagnostic pretests. Co/EDUC 4322 and EDUC 4326. Fall

### **EDUC 4377 Teaching Mathematics: Grades 7-12**

Semester Credit Hours: 3 sch This course addresses the methods of teaching mathematics in secondary schools. Candidates participate in unit planning, the use of instructional technology and manipulatives, and interactive modeling of methods for teaching mathematics. A field experience is included. Prerequisite(s): Admission to the Teacher Certification Program and taking the appropriate TExES diagnostic pretests. Co/EDUC 4322 and EDUC 4326. Fall

### **EDUC 4378 Teaching Visual Arts**

Semester Credit Hours: 3 sch This course addresses the methods of teaching visual arts at all levels. The emphasis is on developing the skills needed to plan for and provide appropriate learning experiences in an effective, supportive learning environment. A field experience is included. Prerequisite(s): Admission to the Teacher Certification Program; Co/EDUC 4322. Spring

### **EDUC 4381 Clinical Teaching**

Semester Credit Hours: 3 sch This one-semester practicum provides pre-service teachers with opportunities to demonstrate competency in classroom settings. The candidate is under the collaborative supervision of a certified, experienced teacher and a university field supervisor. Prerequisite(s): Admission to Student Teaching. Corequisite(s): EDUC 4099. May be repeated one time. Fall, Spring

### **EDUC 4382 Clinical Teaching Residency I**

Semester Credit Hours: 3 sch This clinical teaching practicum is the first in a two-semester sequence. It provides preservice teacher residents with opportunities to develop and demonstrate competency in classroom settings. The teacher resident is under the collaborative supervision and mentoring of a certified experienced teacher and a university site coordinator. Course may be repeated two times. Corequisite(s): EDUC 4099 May be repeated 2 times for credit. Fall

### **EDUC 4383 Clinical Teaching Residency II**

Semester Credit Hours: 3 sch This clinical teaching practicum is the second in a two-semester sequence. It provides preservice teacher residents with opportunities to develop and demonstrate competency in classroom settings. The teacher resident is under the collaborative supervision and mentoring of a certified experienced teacher and a university site coordinator. Course may be repeated two times. Prerequisite(s): EDUC 4382 Corequisite(s): EDUC 4099 Spring

### **EDUC 4391 Contract Study**

Semester Credit Hours: 3 sch Advanced independent study or research (equivalent to senior level course). These courses will not count for graduate credit. Fall, Spring

### **EDUC 4680 Student Teaching: EC-6**

Semester Credit Hours: 6 sch This one-semester practicum provides pre-service teachers with opportunities to demonstrate competency in early childhood and elementary settings. The candidate is under the collaborative supervision of a certified, experienced teacher and a university field supervisor. Prerequisite(s): Admission to Student Teaching. Corequisite(s): EDUC 4099. Fall, Spring

### **EDUC 4681 Clinical Teaching**

Semester Credit Hours: 6 sch This one-semester practicum provides pre-service teachers with opportunities to demonstrate competency in classroom settings. The candidate is under the collaborative supervision of a certified, experienced teacher and a university field supervisor. Prerequisite(s): Admission to clinical teaching. Corequisite(s): EDUC 4099 May be repeated one time for credit. Fall, Spring

### **EDUC 4682 Clinical Teaching**

Semester Credit Hours: 6 sch This one-semester practicum provides preservice teachers with opportunities to demonstrate competency in classroom settings. The teacher candidate is under the collaborative supervision and mentoring of a certified, experienced teacher and a university field supervisor. Prerequisite(s): Admission to Student Teaching. Corequisite(s): EDUC 4099. Fall, Spring

### **EDUC 4685 Student Teaching: Grades 7-12**

Semester Credit Hours: 6 sch This one-semester practicum provides pre-service teachers with opportunities to demonstrate competency in secondary settings. The candidate is under the collaborative supervision of a certified, experienced teacher and a university field supervisor. Prerequisite(s): Admission to Student Teaching. Corequisite(s): EDUC 4099. Fall, Spring

### **EDUC 4686 Student Teaching: EC-Grade 12**

Semester Credit Hours: 6 sch This one-semester practicum provides pre-service teachers with opportunities to demonstrate competency in classroom settings. The candidate is under the collaborative supervision of a certified, experienced teacher and a university field supervisor. Prerequisite(s): Admission to Student Teaching. Corequisite(s): EDUC 4099. Fall, Spring

### **EDUC 4693 Practicum: Internship I**

Semester Credit Hours: 1-6 sch This practicum provides post-baccalaureate interns with opportunities to demonstrate competency in classroom settings. The student is under the collaborative supervision of a certified, experienced mentor teacher and a university field supervisor. Prerequisite(s): Admission to internship. May be repeated once for credit. Fall, Spring

### **EDUC 4694 Practicum: Internship II**

Semester Credit Hours: 1-6 sch This practicum provides post-baccalaureate interns with opportunities to demonstrate competency in classroom settings. The student is under the collaborative supervision of a certified, experienced mentor teacher and a university field supervisor. Prerequisite(s): Admission to internship. May be repeated once for credit. Fall

## **Electrical Engineering**

### **EENG 1303 Object Oriented Programming in Java**

Semester Credit Hours: 3 sch Introduction to object-oriented programming using the Java language. Primitive data types and expressions; application program interfaces; applets, debugging techniques and integrated development environments are covered. Students will learn to use existing classes; selection and iteration control structures; and data structures. Prerequisite: College Algebra or equivalent. Fall

### **EENG 2105 Fundamentals of Circuit Analysis Laboratory**

Semester Credit Hours: 1 sch Laboratory experiments supporting theoretical principles presented in ENGR 2305 involving DC and AC circuit theory, network theorems, time, and frequency domain circuit analysis. Introduction to principles and operation of basic laboratory equipment; laboratory report preparation. Corequisite(s): ENGR 2305

### **EENG 2110 Digital Circuits Laboratory**

Semester Credit Hours: 1 sch Laboratory experiments on logic operations; combination logic circuit design; Karnaugh maps; sequential circuits including flip flops, and counters. Prerequisite(s): PHYS 2326 Fall, Spring

### **EENG 2310 Digital Circuits Design**

Semester Credit Hours: 3 sch Introduction to number system; Boolean algebra; logic operations; combinational logic circuit design; Karnaugh maps; sequential circuit design including registers and counters. Prerequisite(s): PHYS 2326 Fall, Spring

### **EENG 2320 Foundations of Electrical Engineering**

Semester Credit Hours: 3 sch Introduction to (a) Boolean algebra logic, set theory, graph and trees as applied to electrical circuits, image compression and network systems, (b) complex variables as applied to electrical circuit theory, electromagnetism and electrostatics; and (c) Some of the problem solving via MATLAB. Topics will be covered in the context of Electrical Engineering and examples will be given with applications of Electrical Engineering. Prerequisite(s): MATH 2414 Spring

### **EENG 3106 Electronic Circuit Analysis Laboratory I**

Semester Credit Hours: 1 sch Semiconductor devices; diode characteristics; diode circuits and applications; wave shaping and rectifier circuits; transistor biasing (bipolar junction transistors and field effect transistors); low frequency transistor amplifier design; multi-stage amplifier design. Corequisite(s): EENG 3306

### **EENG 3303 Electromagnetic Fields**

Semester Credit Hours: 3 sch Vector analysis; static electric field; steady electric currents; static magnetic fields; time varying fields and Maxwell's equations; plan electromagnetic waves; transmission lines; introduction to waveguides; introduction to antennas. Prerequisite(s): ENGR 2305, MATH 2415, and MATH 3320 Spring

### **EENG 3304 Electric Circuits II**

Semester Credit Hours: 3 sch Second-order circuits; AC circuits; AC power analysis; three-phase circuits, magnetically coupled circuits; frequency and filters; introduction to Laplace and Fourier transforms. Prerequisite(s): ENGR 2305 Spring

### **EENG 3306 Electronic Circuit Analysis I**

Semester Credit Hours: 3 sch Introduction to semiconductor devices; junction diode characteristics, analog diode circuits; Bipolar Junction Transistor (BJT) and Field Effect Transistor (FET) characteristics and models; transistor biasing and low frequency amplifier analysis and designs; multi-stage amplifiers, nonlinear (harmonic) distortion; transistor audio amplifiers. Prerequisite(s): ENGR 2305 Fall

### **EENG 3307 Microprocessors**

Semester Credit Hours: 3 sch Microprocessor/microcontroller architectures, instruction set assembly and C language programming, addressing modes, input output ports, I/O programming, interrupts. Three hours of lecture per week with integrated laboratory sessions. Prerequisite(s): EENG 1303 and EENG 2310 Fall

### **EENG 3309 Electronic Circuit Analysis II**

Semester Credit Hours: 3 sch Operational amplifier; frequency response of passive and active networks; feedback concepts and oscillators; small-signal analysis; load-line analysis; introduction to nonlinear electronic circuits; digital circuits. Prerequisite(s): EENG 3306

### **EENG 3314 Design Methodology in Electrical Engineering**

Semester Credit Hours: 3 sch The use of solid state components in power systems; rectifying devices; diode circuits and rectifiers; controlled rectifier circuits; AC Voltage controllers; Thyristor commutation techniques; DC choppers; speed torque characteristics of motors and loads; starting, braking and transient analysis of electric motors; introduction to HVDC. Prerequisite(s): EENG 3306

### **EENG 3373 Engineering Probability and Statistics**

Semester Credit Hours: 3 sch Fundamental concepts of discrete and continuous random variables. Mean, variance and co variance for random variables. the creation and proper utilization of statistical decision models for engineering analysis and design. Prerequisite(s): MATH 2415

### **EENG 3380 Signals and Systems**

Semester Credit Hours: 3 sch Types of signals; types of systems; properties of systems; convolution; Fourier series; Fourier transforms; Laplace transforms; difference equations; Z-transform; discrete-time systems; applications and design concepts. Prerequisite(s): ENGR 2305, MATH 2415, and MATH 3320

### **EENG 4110 Electric Power Systems Laboratory**

Semester Credit Hours: 1 sch Laboratory experience to accompany EENG 4310 Corequisite(s): EENG 4310

### **EENG 4302 Digital Systems**

Semester Credit Hours: 3 sch Hardware description language such as VHDL; design of digital systems using VHDL; digital systems design using FPGAs and software simulation. Prerequisite(s): EENG 3307 Spring

### **EENG 4310 Electric Power Systems**

Semester Credit Hours: 3 sch Magnetic circuits; principles of electromagnetic energy conversion; fundamentals of power systems modeling and design; power flow analysis. Prerequisite(s): EENG 3303 Fall, Spring

### **EENG 4312 Instrumentation Systems**

Semester Credit Hours: 3 sch Data acquisition of both analog and digital signals; analysis of sensor data; characterization of signal noise; Internet of Things (IoT) devices and introduction to various buses. Prerequisite(s): EENG 3307

### **EENG 4320 Computer Architecture and Design**

Semester Credit Hours: 3 sch Introduction to computer architecture, RISC/CISC, architectures, instruction set design, data path, ALU and control unit design, pipelining of instruction execution, memory, cache and I/O design; virtual memory concepts. Prerequisite(s): EENG 3307

### **EENG 4325 Communication Theory**

Semester Credit Hours: 3 sch Analog and digital modulation techniques, effects of noise in modulation, signal to noise ratio, digital data transmission, probability of error, bandwidth requirements and sampling theorem. Prerequisite(s): EENG 3380 Fall, Spring

### **EENG 4330 Electric Machines**

Semester Credit Hours: 3 sch Rotating electric machines and their magnetic field interactions are considered. Electrical circuit models are used to quantify machine and power system interactions. Power, torque, speed, and performance of various DC and AC machines are calculated. Introduction to synchronous and induction machines. Prerequisite(s): EENG 3304 Fall

### **EENG 4335 Direct Generation Methods**

Semester Credit Hours: 3 sch The conversion of energy directly into electricity without the usual electric machines are considered. Different forms of energy storage are studied. Technologies considered include solar panels, heat transfer, chemical and fuel cells. Prerequisite(s): ENGR 2305

### **EENG 4340 Control Systems**

Semester Credit Hours: 3 sch Introduction to control system, modeling of systems, state variable analysis, feedback control and performance, stability, root locus, Nyquist diagrams and Bode plots, frequency response of the system. The computer as a simulation tool for control system design and analysis is introduced. Prerequisite(s): MATH 3320 Fall, Spring

### **EENG 4380 Special Topics in Electrical Engineering**

Semester Credit Hours: 3 sch Occasionally offered special topics as course in Electrical Engineering to be used as a senior-level elective course. Prerequisite(s): Specified by the instructor.

### **EENG 4391 Independent Study in Electrical Engineering**

Semester Credit Hours: 3 sch Instructor specified and directed independent study course in electrical engineering. Course will involve research work or study of current topics in electrical engineering. Work or study should be equivalent to an average of 3 hours student effort per week. Final report is required. Prerequisites: varies.

### **EENG 4460 Senior Design**

Semester Credit Hours: 4 sch A capstone design course that builds on previous course work, including all stages of the design process taking into account myriad realistic constraints such as manufacturability, sustainability, economic, environmental, safety, use of applicable standards and reliability issues. Oral presentation, written report and demonstration at the senior design expo. Prerequisite(s): EENG 3307 Fall, Spring

## **Engineering**

### **ENGR 1204 Engineering Graphics**

Semester Credit Hours: 2 sch Introduction to computer-aided drafting using CAD software and sketching to generate two- and three-dimensional drawings based on the conventions of engineering graphical communication; topics include spatial relationships, multi-view projections and sectioning, dimension, graphical presentation of data, and fundamentals of computer graphics. Prerequisite(s): MATH 1314 College Algebra or equivalent.

### **ENGR 1322 Engineering Design and Problem Solving**

Semester Credit Hours: 3 sch This course introduces high school students to the scope of engineering, foundations of engineering science, and engineering design. This course is intended to pique high school student's interest in pursuing degrees in an engineering major. Prerequisite(s): High school students must be co-enrolled in the "Engineering your World" course on their high school campus. Spring

### **ENGR 2301 Engineering Mechanics: Statics**

Semester Credit Hours: 3 sch Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia. Prerequisite(s): PHYS 2325 Corequisite(s): MATH 2414.

### **ENGR 2302 Engineering Mechanics: Dynamics**

Semester Credit Hours: 3 sch Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems. Prerequisite(s): ENGR 2301

### **ENGR 2305 Fundamentals of Circuit Analysis**

Semester Credit Hours: 3 sch Basic concepts of electrical engineering using calculus; the fundamentals of electrical and electronic components and circuits, circuit analysis; network principles, motors, and steady-state and transient responses; application of Laplace transforms; and use of computational software to solve network problems; application of the principles to the solution of electrical engineering problems; relationship between basic principles and advanced applications. Prerequisite(s): PHYS 2326.

### **ENGR 2403 Engineering Mechanics: Statics and Dynamics**

Semester Credit Hours: 4 sch Combined, single semester study of statics and dynamics. Calculus-based study of dynamics of rigid bodies, force-mass-acceleration, work-energy, and impulse-momentum computation. Prerequisite(s): PHYS 2325 Corequisite(s): MATH 2414

### **ENGR 3303 Introduction to Materials Science**

Semester Credit Hours: 3 sch 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(s): CHEM 1311 and PHYS 2325.

### **ENGR 3326 Engineering Economics**

Semester Credit Hours: 3 sch Application of economics to engineering and industrial problems that require a knowledge of engineering for their solution. Prerequisite(s): ECON 2301 or junior/senior standing.

### **ENGR 3332 Mechanics of Materials**

Semester Credit Hours: 3 sch Basic concepts of stress and strain in common engineering materials. An introduction to Hooke's law and the Poisson effect. Analysis of axial, shear, flexural, torsional, and combined stress and strain in structural members. Shear and moment distribution in beams. An introduction to the deformation of structural members under load. Prerequisite(s): ENGR 2301 or ENGR 2403

### **ENGR 3354 Introduction to Fluid Mechanics**

Semester Credit Hours: 3 sch An introduction to the basic concepts of fluid mechanics including the fundamental properties of fluids, fluid statics, kinematics of fluid motion, and similitude. The conservation of mass, energy, and momentum are introduced with applications to compressible and incompressible fluids. Laminar and turbulent boundary layers are introduced. Prerequisite(s): ENGR 2301 or ENGR 2403 Corequisite(s): MATH 2415.

### **ENGR 3375 Introduction to Thermodynamics**

Semester Credit Hours: 3 sch An introduction to the basic concepts of thermodynamics including the properties of substances and ideal gases. Introduction to the concepts of a thermodynamic system, control volumes, heat, work, and internal energy. Introduction to the first and second laws of thermodynamics with engineering applications. Prerequisite(s): MATH 2414 and PHYS 2326

### **ENGR 3390 Engineering Programming**

Semester Credit Hours: 3 sch Introduction to programming using a dynamic programming language for high performance computing. Variable types, functions, objects, control flow, and collection types are discussed. Examples and homework are assigned from engineering applications. Prerequisite(s): MATH 3320, PHYS 2326, ENGR 2301

### **ENGR 4192 Internship**

Semester Credit Hours: 1 sch A supervised field experience in an engineering discipline. At the completion of the internship, the student will give a presentation to the faculty in his or her discipline describing the work completed during the internship. May be repeated twice for credit. Prerequisite(s): Sophomore standing in engineering at the start of the internship. Spring

### **ENGR 4195 Professional Practice**

Semester Credit Hours: 1 sch Introduction to the engineering profession with emphasis on professional and ethical responsibility. The impact of engineering solutions in a global, economic, environmental, and societal context is discussed. Professional registration is discussed. Prerequisite(s): Senior standing in engineering.



# English

## **ENGL 1301 Composition I**

Semester Credit Hours: 3 sch Composition I offers intensive instruction in the writing process (prewriting, drafting, revising, and proofreading), emphasizing the recursive nature of the process and the importance of the relationship among writer, audience, and subject. The course will also explore the connection between writing and critical thinking and the usefulness of writing as a tool for learning in all fields of knowledge. Students enrolling in Composition I will be expected to have a good command of standard written English. Fall, Spring, Summer

## **ENGL 1302 Composition II**

Semester Credit Hours: 3 sch Composition II covers argument, rhetorical analysis and the research paper. In this course students analyze and respond to texts of various kinds through essays and research papers. Students will learn to defend their points of view by using textual evidence and strong rhetoric. Readings and exercises help student learn to write broad-minded, well-informed essays in polished academic prose that moves and educates the reader.

Prerequisite(s): ENGL 1301. Fall, Spring, Summer

## **ENGL 2322 British Literature to 1800**

Semester Credit Hours: 3 sch Chronological survey of major works in British literature from the Anglo-Saxon Times through the restoration and late 18th century. Prerequisite(s): ENGL 1302. Fall, Spring, Summer

## **ENGL 2323 British Literature Since 1800**

Semester Credit Hours: 3 sch Chronological survey of major works of British Literature from the late 18th century (about 1800) to the Modern Period. Prerequisite(s): ENGL 1302. Fall, Spring

## **ENGL 2327 American Literature to 1865**

Semester Credit Hours: 3 sch Chronological examination of writers, works and movements in fiction, nonfiction and poetry through 1865. Prerequisite(s): ENGL 1302. Fall, Spring, Summer

## **ENGL 2328 American Literature Since 1865**

Semester Credit Hours: 3 sch Chronological examination of writers, works and movements in fiction, nonfiction and poetry from 1865 to the present. Prerequisite(s): ENGL 1302. Fall, Spring

## **ENGL 2340 Interdisciplinary Writing**

Semester Credit Hours: 3 sch This course teaches interdisciplinary writing to prepare students for professional communication and publishing in their field with an emphasis on STEM communication. It serves the entire university by providing comprehensive intercultural writing instruction. Prerequisite(s): ENGL 1301 and ENGL 1302.

## **ENGL 2389 Selected Topics**

Semester Credit Hours: 3 sch Occasionally offered special topics literature courses at the sophomore level to be used as electives.

## **ENGL 3300 Theoretical Approaches to Literature**

Semester Credit Hours: 3 sch An introduction to the analysis of literary texts as informed by important methods and schools of literary criticism. Attention to the three major genres of literature - poetry, drama and fiction. Frequent writing assignments. Prerequisite(s): Any 2000 level English class. Course available only for English majors, English minors, and those with English as a second teaching field. Fall

## **ENGL 3306 American Multicultural Fiction**

Semester Credit Hours: 3 sch Study of canonical and noncanonical texts from a variety of American cultures, in historical contexts, from pre-Columbian to the present. All readings in English. Prerequisite(s): any 2000 English course. Fall

## **ENGL 3311 Drama: Comedy**

Semester Credit Hours: 3 sch Transnational genre course surveying comic drama from Greek to present-day playwrights: Prerequisite(s): any 2000 level English course. Summer

### **ENGL 3320 American Fiction 1860-1900**

Semester Credit Hours: 3 sch This course explores the development of the American novel, both canonical and emerging, from Realism through Naturalism. Prerequisite(s): any 2000 level English course. Spring

### **ENGL 3325 The Medicine Show**

Semester Credit Hours: 3 sch A course devoted to plays about doctors, nurses, patients, and disease. Spring

### **ENGL 3330 Film as Literature**

Semester Credit Hours: 3 sch Introduction to critical and theoretical approaches and terminology for describing and analyzing films as cultural artifacts and as works of literature. Some emphasis will be given to movements in the history of film (such as German Expressionism, Japanese New Wave Cinema). English elective. Prerequisite(s): one 2000 level English course. Spring

### **ENGL 3331 Topics in Visual Media**

Semester Credit Hours: 3 sch The course studies how cultural contexts and technological developments have informed and influenced film and television since the end of WWII. Exact topics and focus for the course will vary from semester to semester, but major themes are representations of political ideologies, gender roles, and issues of surveillance and security. Students read selections from studies of these subjects and must relate them in papers and exams to the media they view. Prerequisite(s): ENGL 1301, ENGL 1302 and 3 hours of sophomore level literature. This course may be repeated. Spring

### **ENGL 3332 Literature and Art**

Semester Credit Hours: 3 sch The study of art within the context of British Literature, American Literature or Comparative Literature with special emphasis on gender constructs. Spring

### **ENGL 3333 Literature & Mythology**

Semester Credit Hours: 3 sch The study of mythology within the context of British Literature, American Literature or Comparative Literature. Prerequisite(s): ENGL 1301, ENGL 1302. Fall

### **ENGL 3335 American Women Novelists**

Semester Credit Hours: 3 sch This course examines canonical and emerging women writers from the Early Republic up to the present day. We will discuss the ways in which cultural contexts (and contests) gave rise to specific texts and determined their meanings. Prerequisite(s): any 2000 level English course. Fall

### **ENGL 3336 Global Literature**

Semester Credit Hours: 3 sch Global literature is an introduction to the concept and theory of global literature using a cohesive theme to study the influential literary classics in Western and non-Western traditions. All readings are English translations. Prerequisite(s): ENGL 1302. Spring

### **ENGL 3340 Advanced Composition**

Semester Credit Hours: 3 sch The writing of a series of papers of varying lengths involving a wide range of rhetorical situations. Emphasis is placed on the entire writing process, including pre-writing, drafting, and re-writing. Prerequisite(s): ENGL 1302. Fall

### **ENGL 3341 Creative Writing**

Semester Credit Hours: 3 sch Emphasis on development of the student's own writing through formal experimentation, workshopping, and projects, with significant attention paid to literary conventions of modern and contemporary writing. Prose, poetry or drama may be the topic of the given semester. Prerequisite(s): ENGL 1302 and permission of the instructor based on a review of a writing portfolio. Spring

### **ENGL 3352 Eighteenth-Century Women Poets**

Semester Credit Hours: 3 sch Survey of British women poets writing in the period 1660-1800. Focus is on proto-feminist ideologies developed by these poets and on 20th century feminist approaches to their literature and culture. Prerequisite(s): ENGL 1302 and any 2000 level English course. Spring

### **ENGL 3362 Poetry: Forms and Themes**

Semester Credit Hours: 3 sch The course will focus on the close reading and explication of lyric poetry, with some attention to the epic. Students will be introduced to the skills, vocabulary and methods involved in reading poems, with emphasis on a fairly small number of poems closely studied. Frequent writing assignments. Prerequisite(s): one 2000 level English course or permission of instructor. Fall, Spring

### **ENGL 3371 The English Language**

Semester Credit Hours: 3 sch This course covers aspects of English language linguistics including but not limited to phonetics, phonology, morphology, syntax, semantics, stylistics, discourse, varieties and dialects, global Englishes, social factors such as region, age, race, class, ethnicity and gender, the history of English, lexicography, and other relevant topics. Prerequisite(s): ENGL 1302 and one 2000-level literature class. Fall, Spring

### **ENGL 3372 English Grammar**

Semester Credit Hours: 3 sch An analysis of the basic structure of English grammar. The course will present the essential components of English grammar through reading, lecture, discussion, and exercises. Prerequisite(s): ENGL 1302. Spring

### **ENGL 3389 Multilist Course**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. Fall

### **ENGL 4302 20th-Century American Poetry**

Semester Credit Hours: 3 sch Historical development of American poetry from 1900 to the present, with emphasis on Modernism; analysis of the theories and practices of major poets and major schools of poetry. Prerequisite(s): one junior level literature course. Fall

### **ENGL 4305 American Drama**

Semester Credit Hours: 3 sch Historical development of American drama; types of dramatic literature and masterpieces in American drama. Prerequisite(s): ENGL 3300 Fall

### **ENGL 4315 American Romantic Fiction 1800-1860**

Semester Credit Hours: 3 sch This course examines canonical and emerging writers of the Romantic era. Particular attention will be given to the American Gothic, American Transcendentalism, and the sentimental tradition. Prerequisite(s): at least one 3000 level course or permission of instructor. Fall

### **ENGL 4320 American Nature Fiction**

Semester Credit Hours: 3 sch This course explores the development of American Nature writing from European contact to the present. The course makes extensive use of environmental criticism, a cross-disciplinary school of literary and environmental thought. Prerequisite(s): Any 2000-level English course is prerequisite.

### **ENGL 4321 Topics in British Poetry**

Semester Credit Hours: 3 sch Selected topics in British poetry as a literary genre. Prerequisite(s): ENGL 3300.

### **ENGL 4332 The Nineteenth-Century British Novel**

Semester Credit Hours: 3 sch The development of the British novel in the nineteenth and early twentieth centuries. Prerequisite(s): one junior level literature course. Spring

### **ENGL 4333 The Twentieth-Century British Novel**

Semester Credit Hours: 3 sch The development of the British novel in the twentieth century. Prerequisite(s): one junior level literature course. Fall

### **ENGL 4340 Professional Writing**

Semester Credit Hours: 3 sch Intensive work in business and technical writing, with the purpose of developing a portfolio. Workshop format with practicum. This course is intended for students planning careers or graduate study in business, the sciences, and related fields, as well as for English majors and minors planning a career involving business or technical writing. Prerequisite(s): Permission of instructor. Summer

### **ENGL 4361 New York School Poets**

Semester Credit Hours: 3 sch A focused study of the mid to late twentieth-century group of writers known as the New York School poets, including John Ashbery, Frank O'Hara, James Schuyler, Kenneth Koch, and Barbara Guest. The course will also examine cultural, aesthetic and political changes arising in the late 1950's to provide a context for the poetry of the New York School. Prerequisite(s): at least one 3000 level English course or permission of the instructor. Fall

### **ENGL 4365 Shakespeare**

Semester Credit Hours: 3 sch A study of Shakespearean drama organized around a genre (Comedy, History, Tragedy) or a theme. Prerequisite(s): ENGL 3300 May be repeated. Spring

### **ENGL 4371 Rhetoric and Composition**

Semester Credit Hours: 3 sch The history and practice of rhetoric; current theories of writing from the perspectives of cognitive psychology, linguistics, sociology, and others. This course is especially relevant for students seeking secondary certification in English or for students who plan to pursue an advanced degree in English. Prerequisite(s): ENGL 1302 (or equivalent) and at least one 3000 level English course, or permission of the instructor. Spring

### **ENGL 4372 Semantics**

Semester Credit Hours: 3 sch The study of basic concepts in semantics, including word meaning, reference and sense, logic, and interpersonal meaning. Prerequisite(s): One 3000 level English course. Spring

### **ENGL 4389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. Prerequisite(s): ENGL 3300. Fall, Spring

## **Environmental Science**

### **ENSC 3301 Environmental Science I**

Semester Credit Hours: 3 sch This complete survey of modern environmental science and environmental engineering covers the spheres of the environment: water, air, earth, life, and human activities, especially technologies, which affect the earth and its bio-sphere. Prerequisite(s): CHEM 1311, CHEM 1312, or GEOL 1301, GEOL 1302, Corequisite(s): BIOL 1306, BIOL 1307. Fall

### **ENSC 3302 Environmental Science II**

Semester Credit Hours: 3 sch This complete survey of modern environmental science and environmental engineering covers the spheres of the environment: water, air, earth, life, and human activities, especially technologies, which affect the earth and its bio-sphere. Prerequisite(s): ENSC 3301 or consent of instructor. Spring

## **Finance**

### **FINA 3320 Principles of Finance**

Semester Credit Hours: 3 sch Survey of foundational concepts in finance; in particular, discounted cash flow analysis and its application to valuation of bonds, stocks, and corporate capital assets. Introduction to the following topics: bond and stock markets; pricing mechanisms in those markets; relationship between risk and return; capital budgeting methods based on discounted cash flow valuation. Prerequisite(s): ACCT 2302 and BUSI 2342 Fall, Spring, Summer

### **FINA 3324 Financial Planning**

Semester Credit Hours: 3 sch This course exposes students to introductory level personal financial planning concepts utilizing basic financial planning skills and tools. Topics include insurance, investment, income tax, retirement and estate planning. Fall

### **FINA 3331 Principles of Real Estate**

Semester Credit Hours: 3 sch Topics discussed include how to value, purchase, finance and sell residential as well as commercial real estate. Other concepts include tax implications and purchases from foreclosure and tax estates. Spring

### **FINA 4320 International Finance**

Semester Credit Hours: 3 sch The application of finance principles in financial management of international corporations, including analysis of the financing of investment abroad and the management of assets in global financial environments. The course also covers currency exchange mechanisms in theory and practice, including international monetary systems; and currency risk management, including interest rate and currency derivatives. Prerequisite(s): FINA 3320 with a grade of "C" or better. Spring

### **FINA 4321 Intermediate Corporate Finance**

Semester Credit Hours: 3 sch Intermediate level concepts of corporate finance. Emphasizes the importance of and demonstrates advanced techniques related to financing and capital budgeting decisions. Other topics include valuation of private companies, dividend policy implications and mergers/acquisitions. Prerequisite(s): FINA 3320.

### **FINA 4322 Management of Financial Institutions**

Semester Credit Hours: 3 sch Management of financial institutions, including integrated financial service companies. Examination of risk measurement, risk management, regulatory compliance, and profitability from a manager's perspective. Risk management topics include hedging with futures and options, interest rate swaps, and loan securitization. Prerequisite(s): FINA 3320 with a grade of "C" or better Spring

### **FINA 4323 Financial Markets, Institutions & Instruments**

Semester Credit Hours: 3 sch Comprehensive survey of institutions and instruments of modern financial markets. Topics may include depository institutions, non-depository financial intermediaries, investment banking, underwriting and issuance of securities, brokerage services, government and corporate debt, determinants of interest rates, mortgage-backed securities and other types of securitized assets. Prerequisite(s): BUSI 2342 Fall

### **FINA 4324 Market Microstructure**

Semester Credit Hours: 3 sch Study of the structure of capital markets and the behavior of traders in those markets. In-depth exploration of one or more of the following topics: capital market microstructure; informed and uninformed traders; liquidity and volatility in capital markets; market efficiency and its consequences for financial decision making. Prerequisite(s): FINA 3320 with a grade of "C" or better. Fall

### **FINA 4325 Options and Futures**

Semester Credit Hours: 3 sch Introduction to options, futures, and other derivative securities. Topics include option valuation models, principles of forward and futures pricing, structure of markets for derivative securities, and strategies for hedging and speculation. Prerequisite(s): FINA 3320 with a "C" or better. Fall

### **FINA 4327 Principles of Investments**

Semester Credit Hours: 3 sch Survey of financial investment decision-making. History of financial markets and implications for modern investors. Basic principles of security valuation. Analysis of time series of asset class returns for the purpose of estimating risk and expected return, introduction to principles of modern portfolio theory, including the efficient market hypothesis, and behavioral finance. Prerequisite(s): FINA 3320 with a "C" or better. Fall

### **FINA 4331 Energy Finance**

Semester Credit Hours: 3 sch Study of financing decisions in the energy industry. Introduction to financial principles, energy financing strategies, and financial statement analysis of energy firms and the energy industry. Topics include risk management and the finance of energy trading. Prerequisite(s): ACCT 2301 and ECON 2301. Spring

### **FINA 4333 Healthcare Finance**

Semester Credit Hours: 3 sch Study of the financial management of healthcare organizations. Also covers the role of government agencies and insurance companies in healthcare; accounting and financial controls; working capital management; and capital budgeting techniques applicable in the healthcare industry. Prerequisite(s): BUSI 2342 Fall

### **FINA 4340 Financial Statement Analysis**

Semester Credit Hours: 3 sch This course provides a comprehensive framework to understand and practice fundamental analysis applied to stocks, bonds, and other fixed-income securities. Develop equity and fixed-income valuation models to analyze a firm's securities for investment purposes. Conduct financial statement analysis: ratio and trend analysis to evaluate a company's financial position through time, among its domestic and international industry competitors, where accounting recognition and disclosure requirements are used to interpret publicly available information. Apply valuation models using data collected from financial statement analysis, as well as relevant macroeconomic information, to make investment and lending decisions. Topics may include technical analysis and fixed-income research. Prerequisite(s): ACCT 2301, ECON 2301, and FINA 3320 Summer ACCT 4340

### **FINA 4389 Selected Topics in Finance**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. Prerequisite(s): varies. Spring

### **FINA 4391 Contract Study in Finance**

Semester Credit Hours: 1-3 sch An individual independent study course or research project that addresses a financial topic not offered in the curriculum. Course must be approved by the Finance faculty and taught by or supervised by Finance faculty. Prerequisite(s): Varies.

### **FINA 4392 Internship**

Semester Credit Hours: 3 sch A supervised field experience as a financial professional that enables the student to explore career options. Internship must involve work that is substantially financial in nature with job responsibilities similar to those that a full-time employee would face. May be taken only once for credit. Prerequisite(s): FINA 3320, FINA 4323, FINA 4327, and either FINA 4321 or FINA 4322; minimum GPA of 2.5 overall and 2.75 in the major; and permission of academic advisor and faculty internship advisor.

## **French**

### **FREN 1411 Beginning French I**

Semester Credit Hours: 4 sch The first in the lower and intermediate level French language offer by UTPB, and is designed to acquaint the student with the four basic skills: listening, speaking, reading, and writing. It will also include an introduction to French culture.

## **Geology**

### **GEOL 1101 Physical Geology Laboratory**

Semester Credit Hours: 1 sch Laboratory methods in the physical geological sciences. Corequisite(s): GEOL 1301. Fall, Spring

### **GEOL 1102 Historical Geology Laboratory**

Semester Credit Hours: 1 sch Laboratory methods in historical geology, with emphasis on paleontology. Corequisite(s): GEOL 1302. Fall, Spring

### **GEOL 1301 Physical Geology**

Semester Credit Hours: 3 sch Survey of Earth's structure, composition, and the dynamic processes that have resulted in the modern distribution of the Earth's geographic regions, landforms, resources, and geologic hazards. Corequisite(s): GEOL 1101. Fall, Spring

### **GEOL 1302 Historical Geology**

Semester Credit Hours: 3 sch Study of Earth's origin, geologic time, and the major sequential physical and biological events that culminate in the modern distribution of ecosystems. Special emphasis is placed on the geological history of North America. Prerequisite(s): GEOL 1301/GEOL 1101 or permission of the instructor. Corequisite(s): GEOL 1102. Fall, Spring

### **GEOL 3103 Mineralogy Laboratory**

Semester Credit Hours: 1 sch Identification of minerals, especially the rock-forming minerals, on the basis of crystallographic, physical, chemical, and optical properties. Prerequisite(s): GEOL 1301 and GEOL 1101 Corequisite(s): GEOL 3303. Fall

### **GEOL 3104 Igneous and Metamorphic Rocks Laboratory**

Semester Credit Hours: 1 sch Identification of igneous and metamorphic rocks in hand specimen and under the polarizing microscope. Corequisite(s): GEOL 3304. Spring

### **GEOL 3105 Structural Geology Laboratory**

Semester Credit Hours: 1 sch Geometrical techniques used in the understanding of rock deformation. Corequisite(s): GEOL 3305. Fall, Spring

### **GEOL 3107 Invertebrate Paleontology Laboratory**

Semester Credit Hours: 1 sch Laboratory methods in paleontology. Corequisite(s): GEOL 3307. Fall, Spring

### **GEOL 3108 Sedimentology Lab**

Semester Credit Hours: 1 sch Laboratory methods in sedimentology. Corequisite(s): . Fall, Spring

### **GEOL 3112 Sedimentary Rocks for Engineers Laboratory**

Semester Credit Hours: 1 sch Identification of sedimentary grains, textures, and structures, clastic and carbonate depositional systems, and diagenesis of oil and gas reservoirs in samples and cores. Spring

### **GEOL 3129 GIS and GPS Applications**

Semester Credit Hours: 1 sch Laboratory methods in GIS, using ESRI (Arc View) software. Spring

### **GEOL 3212 Sedimentary Rocks for Engineers**

Semester Credit Hours: 2 sch A foundational course for petroleum geology. This course is not accepted as credit for GEOL 3308. Prerequisite(s): GEOL 1301 and GEOL 1101 Spring

### **GEOL 3303 Mineralogy**

Semester Credit Hours: 3 sch Introduction to mineralogy and its importance to geology. Aspects of mineral chemistry and crystallography. Identification of rock forming minerals using physical, optical, and geochemical properties. Prerequisite(s): GEOL 1301/GEOL 1101, CHEM 1311, and CHEM 1111 Corequisite(s): GEOL 3103. Prerequisite or Corequisite: CHEM 1311 and CHEM 1111 Fall

### **GEOL 3304 Igneous and Metamorphic Rocks**

Semester Credit Hours: 3 sch Origin and distribution, classification, identification, and description of igneous and metamorphic rocks in hand specimen and under the polarizing microscope. Prerequisite(s): GEOL 3303/GEOL 3103. Corequisite(s): GEOL 3104. Spring

### **GEOL 3305 Structural Geology**

Semester Credit Hours: 3 sch Principles of structural geology, including the theory of rock behavior under stress, and descriptions of major structural features. Prerequisite(s): GEOL 1301/GEOL 1101. Corequisite(s): GEOL 3105. Prerequisite or Corequisite: MATH 2412 or MATH 2413, and PHYS 1301/PHYS 1101 or PHYS 2325/PHYS 2125 or permission of the instructor. Fall, Spring

### **GEOL 3307 Invertebrate Paleontology**

Semester Credit Hours: 3 sch Classification, evolution, and paleoecology of ancient organisms with hard parts (shells or skeletons). Prerequisite(s): GEOL 1301/GEOL 1101 and GEOL 1302/GEOL 1102 or BIOL 1306/BIOL 1106 or permission of the instructor. Corequisite(s): GEOL 3107. Fall, Spring

### **GEOL 3308 Sedimentology**

Semester Credit Hours: 3 sch Exploration of the fundamental processes that shape the sedimentary record of Earth's surface including sediment production, transport, and deposition. Formation and identification of sedimentary rock types, sedimentary structures, and introduction to depositional environments. Prerequisite(s): GEOL 1302 and GEOL 1102 Corequisite(s): GEOL 3108. Fall, Spring

### **GEOL 3316 Introduction to Groundwater**

Semester Credit Hours: 3 sch Basic terminology and concepts, evaporation, precipitation, runoff, stream flow, aquifer properties, groundwater flow, soil moisture, groundwater recharge, regional groundwater flow, and the geology of groundwater occurrence. Prerequisite(s): GEOL 1301/GEOL 1101 and MATH 2412. Fall

### **GEOL 3317 Environmental Geology**

Semester Credit Hours: 3 sch The application of geologic information to the resolution of problems resulting from the interaction of people and their physical environment. Special emphasis is placed upon the relationships between cultural and natural ecosystems and their geological settings. Prerequisite(s): GEOL 1301/GEOL 1101. Fall

### **GEOL 4100 Basic Field Methods**

Semester Credit Hours: 1 sch Introduction to the methods used in geologic mapping by the field geologist. Two (2) one day field trips and one (1) three day field trip are required. Prerequisite(s): GEOL 3304/GEOL 3104, GEOL 3305/GEOL 3105, GEOL 3307/GEOL 3107, and GEOL 3308/GEOL 3108, or permission of the instructor. Spring

### **GEOL 4102 Core Description**

Semester Credit Hours: 1 sch Methods used in the detailed description of cores recovered from wells drilled in the Permian Basin of West Texas and Southeastern New Mexico. Taught from 8:00 a.m. to 5:00 p.m. on three non-consecutive Saturdays. Prerequisite(s): GEOL 3308/GEOL 3108 or permission of the instructor. Spring

### **GEOL 4120 Exploration Geophysics Lab**

Semester Credit Hours: 1 sch Labs on gravity, resistivity, and seismic techniques used in exploration of groundwater, mineral deposits and petroleum. Corequisite(s): GEOL 4320 Fall, Spring

### **GEOL 4136 Soil Science Lab**

Semester Credit Hours: 1 sch Origin, classification, and physical, chemical, and biological properties of soils. Prerequisite(s): GEOL 1301 and GEOL 1101 Corequisite(s): GEOL 4336 Fall, Spring

### **GEOL 4170 Workshop**

Semester Credit Hours: 1 sch Workshop on a petroleum exploration related topics including but not limited to sequence stratigraphy, well logging, or seismic processing. Prerequisites: permission of the instructor.

### **GEOL 4300 Micropaleontology**

Semester Credit Hours: 3 sch An overview of the basic principles of micropaleontology. The students will gain knowledge about the major microfossil groups including their identifying morphological characteristics, classification, stratigraphic range, paleoecology, in addition to their applications in stratigraphy and hydrocarbon exploration. The course also offers practical training on extracting and identifying microfossils under the microscope.

### **GEOL 4301 Applied Stratigraphy**

Semester Credit Hours: 3 sch Review of the basic principles and applications of stratigraphy. The students will learn about the various stratigraphic tools and how to acquire, use and integrate stratigraphic data to analyze and solve geologic problems. Lessons include interpreting paleo-climate and paleo-environment of deposition as well as finding solutions for hydrocarbon exploration and development problems.

### **GEOL 4309 Sequence Stratigraphy**

Semester Credit Hours: 3 sch Introduction to models and fundamental concepts of stratigraphy. Interpretation of the sedimentary record in the sequence stratigraphic paradigm. Prerequisite(s): GEOL 3308 and GEOL 3108 Fall, Spring

### **GEOL 4316 Earth Resources and the Environment**

Semester Credit Hours: 3 sch Geology, origin, and general economics of mineral and fuel deposits, their importance to the national economy, current problems of supply, and environmental problems faced by the mining and oil industries. Prerequisite(s): GEOL 3317. Spring

### **GEOL 4317 Geology of the Permian Basin**

Semester Credit Hours: 3 sch Depositional and structural history and diagenetic overprint, in both outcrop and in subsurface, of the Paleozoic formations of the Permian Basin. Prerequisite(s): GEOL 3308/GEOL 3108 or permission of the instructor. Fall



### **GEOL 4318 Oceanography**

Semester Credit Hours: 3 sch Introduction to the basic principles of oceanography. Emphasis on the physical, chemical, geological, and biological processes that affect the ocean through time. Prerequisite(s): GEOL 1301 or BIOL 1306 Fall, Spring

### **GEOL 4320 Exploration Geophysics**

Semester Credit Hours: 3 sch Gravity, magnetic, and seismic techniques used in the search for mineral deposits and petroleum. Prerequisite(s): GEOL 3305/GEOL 3105 Fall

### **GEOL 4321 Introduction to Seismic Exploration**

Semester Credit Hours: 3 sch Seismic exploration is the most popular geophysical exploration method to search for commercially economic subsurface deposits of crude oil and natural gas by recording, processing, and interpreting artificially induced seismic waves in the earth. This course consists of 2 hour lecture and 2 hours lab. Prerequisite(s): PHYS 1301, and a statistics course MATH 3301, PSYC 3301, or SOCI 3317 Fall, Spring

### **GEOL 4324 Environmental Geophysics**

Semester Credit Hours: 3 sch Course includes geophysical methods commonly used in the areas of environmental geology and hydrogeology, resistivity, electromagnetic, magnetics, ground penetrating radar, gravity, seismic refraction, and boreholes geophysics. Prerequisite(s): GEOL 3317 or GEOL 3308 Fall

### **GEOL 4325 Geophysics Field**

Semester Credit Hours: 3 sch Acquisition, processing, and analysis of geophysical surveys including dc resistivity, gravity, and other geophysical methods. Prerequisite(s): GEOL 1301, GEOL 3305

### **GEOL 4329 GIS and GPS Applications**

Semester Credit Hours: 3 sch Introduction to the basic components of a GIS and some fundamental concepts that underline the use of GIS will be taught. Practice working with GIS maps and geographic data, you will learn how a GIS helps people visualize and create information that can be used to make decisions and solve problems. Prerequisite(s): GEOL 1301 and GEOL 1101 Fall, Spring

### **GEOL 4330 Hydrogeology**

Semester Credit Hours: 3 sch This course covers the basic process of the hydrologic cycle. Major topics of the course include the concepts related to the occurrence and movement of groundwater as well as evaluation of groundwater resources. Prerequisite(s): GEOL 1301 and GEOL 1101 Fall, Spring

### **GEOL 4336 Soil Science**

Semester Credit Hours: 3 sch Origin, classification, and physical, chemical, and biological properties of soils. Prerequisite(s): GEOL 1301 and GEOL 1101 Corequisite(s): GEOL 4136 Fall

### **GEOL 4337 Environmental Site Assessment and Remediation**

Semester Credit Hours: 3 sch An in-depth look at the environmental consulting industry, how it relates to contaminated sites and the remediation of those sites. Overview of federal, state, and local environmental regulations Prerequisite(s): GEOL 1101 and GEOL 1301 Spring

### **GEOL 4338 Geologic Hazards, Risks, and Associated Policies**

Semester Credit Hours: 3 sch An in-depth look into geological hazards, risk assessment, and how they relate to environmental policy, law, and culture. Prerequisite(s): GEOL 1101 and GEOL 1301 Fall

### **GEOL 4346 Petroleum Geology of the Permian Basin**

Semester Credit Hours: 3 sch Students will understand the components of the petroleum system as found in the Permian Basin. To include course, thermal maturity, pathway of oil migration, reservoir leak and seal. Prerequisite(s): GEOL 1301 and GEOL 3308 Fall, Spring

### **GEOL 4348 Petroleum Geology**

Semester Credit Hours: 3 sch Basics of Petroleum Geology. Principles governing the exploration for hydrocarbons; characteristics of reservoirs and traps; origin, migration and accumulation of hydrocarbons.

### **GEOL 4349 Basic Well Logging**

Semester Credit Hours: 3 sch Introduction to methods and tools utilized in exploration for, and production of, hydrocarbons. The use and interpretation of electronic logging tools, core analyses and description, and drill stem tests in evaluating hydrocarbon potential are stressed. Prerequisite(s): GEOL 3308

### **GEOL 4358 Principles of Geochemistry**

Semester Credit Hours: 3 sch Applications of chemical principles to geologic systems to modern and geological questions. This course provides a survey of basic thermodynamics, kinetics, aqueous complexation, oxidation-reduction, and stable and radiogenic isotopes in geologic systems. Prerequisite(s): GEOL 1101 GEOL 1301, GEOL 3103 GEOL 3303, CHEM 1111 CHEM 1112, CHEM 1311 CHEM 1312 Spring

### **GEOL 4392 Geoscience Internship**

Semester Credit Hours: 3 sch Field experience in industry or with a local, state, or federal agency to apply skills and concepts learned in practical work environment. Requires approximately 150 hours of internship work for 3 hours of course credit and faculty supervision by the department. Fall, Spring, Summer

### **GEOL 4398 Undergraduate Research**

Semester Credit Hours: 3 sch Undergraduate research under the direction of a faculty supervisor. Provides introduction to research planning, implementation, and specific training for lab methods, equipment, and software for geoscience research. Fall, Spring

### **GEOL 4399 Undergraduate Thesis**

Semester Credit Hours: 3 sch Undergraduate research under direction of a faculty supervisor. Undergraduate thesis work requires the completion of a formal written thesis or a presentation in a professional setting appropriate for the research discipline. Fall, Spring

### **GEOL 4600 Advanced Field Geology**

Semester Credit Hours: 6 sch This course will furnish geoscience students with the necessary knowledge and skills to undertake geological field work such as mapping, samples collection, and measuring stratigraphic sections. Students will be trained on how to use field equipment and how to carry out field expeditions to 1) study the document stratigraphic and structural relationships, 2) identify fossils, minerals, and rocks, and 3) integrate and employ field data to solve geological problems. Summer

## **German**

### **GERM 1411 Beginning German I**

Semester Credit Hours: 4 sch German 1411 is the first in lower and intermediate level German language classes offered by UTPB, and is designed to acquaint the student with the four basic skills: listening, speaking, reading, and writing. It will also include an introduction to German culture. Beginners and students with fewer than two years of high school German should register for this course.

## **Health Science Human Performance**

### **HSHP 4310 Social Determinants of Health**

Semester Credit Hours: 3 sch Analyze and evaluate the relationship between the domains of social determinants of health and health disparities, inequalities, health-related outcomes and patient satisfaction. Propose strategies and foster relationships through intentional collaborations across professions to enhance access to healthcare and information and quality of life by impacting social determinants of health.

### **HSHP 4315 Bias Stereotypes and Uncertainty in Clinical Decision Making**

Semester Credit Hours: 3 sch Discuss the role implicit and explicit bias and stereotypes play in clinical decision making. Consider the attitudes, knowledge and skills that impact the perceptions of patients and healthcare providers and affect the clinical decision-making process.

### **HSHP 4320 Interpersonal and Communication Skills**

Semester Credit Hours: 3 sch Evaluate the cultural and linguistic factors in patient-provider relationships that hinder communication. Develop skills in verbal and non-verbal communication to enhance rapport with patients and individuals with cultural and linguistic barriers, including appropriate use of interpreters and language assistance.

### **HSHP 4325 Assessment of Health Outcomes and Patient Satisfaction**

Semester Credit Hours: 3 sch Compare methods of evaluating health outcomes and patient satisfaction that integrate cultural factors. Propose strategies to integrate assessment methods into clinical practice and effectively utilize results.

### **HSHP 4330 Promotion of Health Literacy**

Semester Credit Hours: 3 sch Explore the levels of health literacy and the risk factors for low health literacy. Develop knowledge and skills needed to assist individuals in obtaining, processes and understanding basic health information and appropriate health decisions.

### **HSHP 4335 Quality Improvement in Diversity and Inclusion**

Semester Credit Hours: 3 sch Propose leadership and organizational quality improvement tactics to reduce health disparities bias and stereotypes to enhance quality of care and equitable treatment of diverse populations. Develop a plan to evaluate current practices implement modifications and assess outcomes to promote accountability.

## **History**

### **HIST 1301 History of the United States to 1877**

Semester Credit Hours: 3 sch A survey of major social, economic, and political developments in the United States from European colonization through Reconstruction. Fall, Spring, Summer

### **HIST 1302 History of the United States Since 1877**

Semester Credit Hours: 3 sch A survey of major social, economic, and political developments in the United States from 1877 to the present. Fall, Spring, Summer

### **HIST 2321 World Civilizations to 1500**

Semester Credit Hours: 3 sch A survey of the world's major civilizations and of their mutual influences through 1500. Spring, Summer

### **HIST 2322 World Civilizations since 1500**

Semester Credit Hours: 3 sch A survey of the world's major civilizations and of their cultural, political, and economic interactions from roughly 1500 to modern globalization. Fall

### **HIST 3306 Modern Africa**

Semester Credit Hours: 3 sch This course will explore African history from the years immediately preceding colonization to the present, paying particular attention to imperialism, liberation struggles across the continent, and the postcolonial era.

### **HIST 3326 19th-Century Europe**

Semester Credit Hours: 3 sch European history from the French Revolution and Enlightenment to World War I (1789 - 1918). Spring

### **HIST 3331 Tudor-Stuart England**

Semester Credit Hours: 3 sch Political, religious, economic, and social development of England between 1485 and 1714. Spring

### **HIST 3332 Great Britain Since 1714**

Semester Credit Hours: 3 sch Political, economic, and social development of Great Britain and its empire from 1714 to the present. Spring

### **HIST 3335 Modern Germany**

Semester Credit Hours: 3 sch Germany from the French Revolution to the 1990 reunification, with emphasis on political, economic, and social aspects. Fall

### **HIST 3341 Colonial America**

Semester Credit Hours: 3 sch This course covers the colonial era in the United States from the earliest permanent settlement to eve of the crisis with Great Britain, focusing on the main political, social, and cultural concerns of the era before American independence. Fall

### **HIST 3342 Revolutionary America, 1763-1789**

Semester Credit Hours: 3 sch This course explores America through the Revolutionary era, focusing on the transition from British colonization to newly won independence and the establishment of a national government. Spring

### **HIST 3343 Early National Period, 1789-1828**

Semester Credit Hours: 3 sch This course explores what is commonly referred to as America's "early national" period. The country was still coming to grips with its newfound independence. Its institutions and ideals were tested and forged through an array of domestic and foreign challenges. Fall

### **HIST 3344 Jacksonian America, 1828-1850**

Semester Credit Hours: 3 sch The emergence of American participatory democracy, and related economic and social trends leading to tensions and changes in America institutions. Fall

### **HIST 3345 Civil War and Reconstruction, 1850-1877**

Semester Credit Hours: 3 sch Causes of conflict, the course of war, and the consequences for both North and South in the United States. Spring

### **HIST 3347 Depression and War, 1929-1945**

Semester Credit Hours: 3 sch During the tumultuous years from 1929 to 1945 the United States endured the worst economic calamity in global history, the Global Depression. It also was the central allied force in the most devastating important war known to humankind. Fall

### **HIST 3348 Post-War America 1945-present**

Semester Credit Hours: 3 sch Political, economic, social, and cultural trends from the beginning of the Cold War and the "Baby Boom" to the present. Fall

### **HIST 3350 Texas**

Semester Credit Hours: 3 sch This course is a survey of Texas history from pre-European contact to the modern era. Spring

### **HIST 3355 Slavery in America**

Semester Credit Hours: 3 sch The establishment, experience, and end of slavery in the United States, 1619 to 1865. Spring

### **HIST 3359 Studies in Mexican-American History**

Semester Credit Hours: 3 sch This course will explore various topics, issues, and themes in the Mexican-American experience. Maybe repeated. Topics will vary.

### **HIST 3381 Modern China**

Semester Credit Hours: 3 sch China from the Qing dynasty to the People's Republic, with emphasis on both internal developments and the encounter with Western technology and culture. Spring

### **HIST 4304 Global Sports History**

Semester Credit Hours: 3 sch This course will explore global sports history with an emphasis on sports, sporting culture, and the intersection of sports, politics, and social issues since the 19th century. Spring

### **HIST 4305 Topics in Sports History**

Semester Credit Hours: 3 sch This course will explore various topics, issues and themes in sports history both globally and within the United States. This course may be repeated. Fall, Spring

### **HIST 4307 South Africa**

Semester Credit Hours: 3 sch The course covers the history of South Africa with particular focus on the twentieth century, Apartheid, and the black liberation struggle. Spring

### **HIST 4319 Studies In Latin America**

Semester Credit Hours: 3 sch Reading, research, and discussion devoted to selected topics in Latin American history. Title and content may vary. May be Repeated Spring

### **HIST 4326 The French Revolution**

Semester Credit Hours: 3 sch A survey of the history of the French Revolutionary period, 1789-1815, with further readings on revolutions in world history. The content will include discussions of the causes, dynamics, and legacies of revolutions. Spring

### **HIST 4327 World War I**

Semester Credit Hours: 3 sch World War I was a global conflict in every sense of the term. While traditionally studies of World War I have focused on Europe, this class will take a much more expansive view to show how this war was truly the end of an era in World History.

### **HIST 4336 Third Reich and Holocaust**

Semester Credit Hours: 3 sch Studies in the political and social trends of Nazi Germany, and on the origins, implementation, and meaning of the Holocaust. Fall, Spring

### **HIST 4339 Studies In European History**

Semester Credit Hours: 3 sch Reading, research, and discussion devoted to selected topics in world history. Title and content may vary. May be repeated.

### **HIST 4346 Gilded Age**

Semester Credit Hours: 3 sch This course will explore the Gilded Age (1877-1900) through an examination of various topics including national and state politics, imperialism, industrialization, race relations, and the changing role of women.

### **HIST 4349 Studies in pre-1900 US History**

Semester Credit Hours: 3 sch Reading, research, and discussion devoted to selected topics in American history before 1900. Title may vary. May be repeated. Fall

### **HIST 4350 Progressive Era**

Semester Credit Hours: 3 sch This course will explore the American progressive era (1900-1919) through an examination of various topics, including politics, labor relations, race relations and the stifling of Jim Crow, and the social agenda of Progressive activists. Fall

### **HIST 4359 Studies in Women's History 19th Century**

Semester Credit Hours: 3 sch This course will explore various topics, issues, and themes in women's history. Maybe repeated. Topics will vary.

### **HIST 4360 The Modern Presidency**

Semester Credit Hours: 3 sch This course explores the emergence of the "modern" presidency in the United States since the beginning of the 20th century. Fall

### **HIST 4366 The Civil Rights Movement**

Semester Credit Hours: 3 sch This course explores the flight for racial justice in the 20th century with particular focus on the period after 1945. It will also investigate how the struggle for black civil rights expanded in the 1960s as women, Hispanics, and other group drew from the Civil Rights Movement to press their own demands for equality within American society. Fall

### **HIST 4370 American Petroleum Industry**

Semester Credit Hours: 3 sch History of the American petroleum industry from its origins to the present. Spring

### **HIST 4371 United States Sports History**

Semester Credit Hours: 3 sch This course will explore the history of sports in the United States with an emphasis on the intersections of sports, politics, and social issues since the 19th century. Fall

### **HIST 4379 Studies In post-1900 US History**

Semester Credit Hours: 3 sch Reading, research, and discussion devoted to selected topics in American history after 1900. Title may vary. May be repeated. Summer

### **HIST 4389 Studies in World History**

Semester Credit Hours: 3 sch Reading, research, and discussion devoted to selected topics in African, Asian, or Islamic history. Title and content may vary. May be repeated. Fall

### **HIST 4391 Contract Study**

Semester Credit Hours: 3 sch Advanced independent study or research (equivalent to senior level course). These courses will not count for graduate credit. Fall

## **Humanities**

### **HUMA 3355 Print and Design History**

Semester Credit Hours: 3 sch This course deals with the history of print and design from Asian, Medieval periods to our current contemporary styles and techniques in printmaking. Prerequisite(s): ARTS 1301 or ARTS 1303 or ARTS 1304 Summer ARTS 3355

### **HUMA 4301 Virtual Reality**

Semester Credit Hours: 3 sch History, culture, and social dynamics of the phenomenon of "virtual worlds", and their influence in turn on contemporary culture and society. Fall, Spring, Summer

### **HUMA 4302 Film Music History**

Semester Credit Hours: 3 sch This course explores today's leading art form. It traces the history of film music, its changing relationship to cinematography, and its inspiring future. Students will learn to critically discuss the language of film music and the many roles it plays in cinematic drama. Finally, participants will learn to document their aesthetic experience of major film scores. Fall, Spring

### **HUMA 4303 History of African American Art**

Semester Credit Hours: 3 sch This course is a survey of the arts of African Americans in the United States. It covers the portrayal of African Americans as well as a chronological study of the contributions African Americans artists have made to the overall arts of this country. Prerequisite(s): ARTS 3301. Cross-listed with ARTS 4302 Fall

### **HUMA 4304 Virtual Reality**

Semester Credit Hours: 3 sch History, Culture, and social dynamics of the phenomenon of "virtual worlds," and their influences on contemporary culture and society.

## **Industrial Technology**

### **BAAS 4393 Senior Project**

Semester Credit Hours: 3 sch Senior project based on the student's B.A.A.S. track, supervised by a faculty advisor. Fall, Spring

### **ITEC 2101 Financial Decision Tools**

Semester Credit Hours: 1 sch This course is for students that have satisfactorily completed an introductory statistics course but have not completed a course containing the accounting and financial content covered in ITEC 2301. Content includes accounting terminology and concepts including the time-value of money, cost estimation, project selection, budgeting, earned-value management and variance analysis. Credit may not be earned for ITEC 2101 and ITEC 2301. Offered on demand. Instructor permission required. Fall, Spring

### **ITEC 2300 Computer Aided Design I**

Semester Credit Hours: 3 sch Introduces Computer-Aided Drafting principals and practice. Students will utilize CAD techniques in lines, arcs, editing, and dimensioning including geometric constructions and basic 3-D drawing.

### **ITEC 2301 Quantitative Decision Tools**

Semester Credit Hours: 3 sch Introduction to financial and quantitative decision making. Accounting terminology and concepts including the time value of money. Cost estimation, project selection, budgeting, earned value management and variance analysis. Basic concepts and applications of probability descriptive and inferential statistics, and statistical process control including quality management tools and risk analysis. Course may be waived for students who have taken ACCT 2302

### **ITEC 3305 Occupational Safety and Health Concepts**

Semester Credit Hours: 3 sch An overview of the concepts and practices associated with occupational safety and health. Topics include but are not limited to: the history of workplaces safety and health, accident causation, investigation, and prevention, related legal topics, workplace violence, employee training, and professional certifications.

### **ITEC 3307 Project Management Concepts**

Semester Credit Hours: 3 sch An overview of the concepts and techniques for managing projects. Topics include, but are not limited to planning, scheduling, scope definition, work breakdown structure, scheduling, cost estimating, and risk assessment. Spring

### **ITEC 3310 Manufacturing Technology**

Semester Credit Hours: 3 sch Survey of manufacturing processes for metals and polymers. Casting, deformation, sheet metal, machining, and polymer processing. Summer

### **ITEC 3340 Facilities Design**

Semester Credit Hours: 3 sch Study of techniques and procedures for developing efficient facilities layout.

### **ITEC 3350 Supply Chain Management**

Semester Credit Hours: 3 sch Satisfy customer needs by reducing time required to design, process, and deliver products. Use appropriate transportation, warehousing, and logistics to lower costs. Prerequisite(s): COSC 1335 or equivalent or consent of instructor.

### **ITEC 3360 Global Logistics**

Semester Credit Hours: 3 sch This course covers international logistics and operations including foreign production and outsourcing. Air, sea, and intermodal transportation are discussed as well as international financial transactions, documentation, customs procedures, and the associated intermediaries. Prerequisite(s): Junior or Senior standing. Spring

### **ITEC 3370 Job Analysis & Training**

Semester Credit Hours: 3 sch Introduction to the methods used in conducting job analysis and developing task and job specific training. The course also covers development of organizational training programs to align human resources development with organizational strategic objectives.

### **ITEC 3380 Technology Management**

Semester Credit Hours: 3 sch An overview of technology management concepts including, but not limited to dynamic capabilities, organizational structure, resources, strategy, technology project implementation and change management, and the impacts of technology. MNGT 3380

### **ITEC 3390 Technology and Society**

Semester Credit Hours: 3 sch The impact of technology on individuals and society through critical analysis of selected modern topics using the methods of science and technology. Prerequisite(s): COSC 1335 or equivalent, or consent of the instructor.

### **ITEC 4302 Innovation and Entrepreneurship**

Semester Credit Hours: 3 sch Innovation and entrepreneurship are the principal source of jobs and wealth creation in market economics. This course focuses on entrepreneurship with particular attention paid to the commercialization of technological innovations such as the transfer of technology out of laboratories and into commercial applications. Prerequisite(s): Junior or Senior standing Summer

### **ITEC 4303 Environmental Issues**

Semester Credit Hours: 3 sch A study of environmental issues related to society and commerce that impact air, water, and land with emphasis on sustainability and compliance with environmental regulations.

### **ITEC 4306 Workplace Safety Assessment and Control**

Semester Credit Hours: 3 sch This course covers assessment and control of workplace hazards including, but not limited to, machinery, electricity, radiation, fire, noise and vibration, biological hazards, and injuries from falls and lifting. Summer

### **ITEC 4310 Energy Technology**

Semester Credit Hours: 3 sch Energy sources and how the sources produce usable power. Future trends in the area of energy technology. Summer

### **ITEC 4340 Construction Technology**

Semester Credit Hours: 3 sch Provide a basic understanding of the construction industry, construction materials, tools, and equipment. Summer

### **ITEC 4380 Total Quality Management**

Semester Credit Hours: 3 sch This course covers the principles of quality management to include basic probability and statistics concepts, control charts for attributes and variables, sampling plans, quality audits and cost.

### **ITEC 4392 Internship**

Semester Credit Hours: 3 sch Field learning experience in industry consisting of a minimum of 150 hours for 3 credit hours. For Industrial Technology majors only. Prerequisite(s): Senior standing or permission of instructor.

## **Kinesiology**

### **KINE 1100 Lifetime Wellness and Health**

Semester Credit Hours: 1 sch Explore the role that a healthy lifestyle plays throughout the lifespan and consider the importance of various dimensions of wellness including physical, emotional, mental, social, environmental, and occupational aspects. Identify strategies to improve wellness and discuss the societal benefits of being a healthy citizen. Participate in activities and strategies to facilitate and promote the development of a healthy lifestyle.

### **KINE 1112 Aerobic Activities**

Semester Credit Hours: 1 sch Gain conditioning and knowledge of various ways to perform aerobically. Lecture/discussion on safety, goal setting, recording workouts, flexibility, strength work, and care and prevention of injuries. Fall



**KINE 1115 Beginner/Advanced Swimming**

Semester Credit Hours: 1 sch Develop swimming stroke skills for personal use and learn basic swimming instructional techniques. Appropriate for swimmers from novice through advanced while using the Personalized System of instruction. Spring, Summer

**KINE 1130 Elementary, Secondary Dance**

Semester Credit Hours: 1 sch Learn movement skills and concepts in dance and the purpose of dance in the elementary and the secondary physical education curriculum. Fall

**KINE 1156 Aerobics**

Semester Credit Hours: 1 sch Opportunity to obtain skill and knowledge through participation in this lifetime activity. Spring

**KINE 1159 Weight Training**

Semester Credit Hours: 1 sch Opportunity to obtain skill and knowledge through participation in this lifetime activity. Fall, Spring

**KINE 1301 Concepts in Fitness and Health**

Semester Credit Hours: 3 sch Offers an introduction to the basics of personal health, fitness, and major contemporary health issues. Fall, Spring

**KINE 1309 Outdoor Activities**

Semester Credit Hours: 3 sch Learn to do and teach activities designed for the outdoor sportsman. These activities are adventuresome, risk-taking activities which will help to develop the skills used in cooperative learning, decision-making, communication, and challenge-by-choice. Activities include archery, orienteering, hiking, camping, and problem-solving. Fall

**KINE 1333 Team and Individual Sports**

Semester Credit Hours: 3 sch Develop skills and strategies to play and teach individual and team sports. Learn rules, sport skill development, and task progressions for sport skills using the Tactical Games and Personalized System of instruction models. Spring

**KINE 2001 Sophomore Student Success**

Semester Credit Hours: 0 sch This course is designed to provide ongoing student support in the kinesiology program through focused strategies to promote personal and academic success. This course is required for all KINE students. Fall, Spring

**KINE 2306 First Aid**

Semester Credit Hours: 3 sch Offers instruction in the knowledge and skills necessary, in an emergency situation, to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until professional medical help arrives. Opportunity for American Red Cross First Aid and CPR certifications. Fall, Spring

**KINE 2370 Care and Prevention of Athletic Injuries**

Semester Credit Hours: 3 sch Introduction to the prevention, recognition, evaluation, treatment, and rehabilitation of common musculoskeletal injuries and conditions. Laboratory experiences emphasize taping and bracing methods and techniques for preventing musculoskeletal injuries/ conditions. A 200 hour clinical observation component is required for students that intend to apply for admission to the Athletic Training Education Program. Fall, Spring

**KINE 2385 Anatomy and Physiology for Kinesiology**

Semester Credit Hours: 3 sch This course is designed to increase the student's knowledge of human anatomy and physiology through the survey of the macroscopic and microscopic anatomy and physiology of the neuromuscular, cardiovascular, and respiratory systems. This course will also include the basic study of the digestive and endocrine systems. Specific emphasis will be placed on developing the student's understanding of those human systems that most directly affect human movement in the context of work and exercise. Prerequisite(s): BIOL 1306/BIOL 1106 and BIOL 1307/BIOL 1107. Fall, Spring

### **KINE 3001 Junior Student Success**

Semester Credit Hours: 0 sch This course is designed to provide ongoing student support in the kinesiology program through focused strategies to promote personal and academic success. This course is required for all KINE students. Fall, Spring

### **KINE 3151 Lab: Exercise Physiology**

Semester Credit Hours: 1 sch An introduction to many of the basic laboratory procedures and tests used in the field of exercise physiology. The class is designed to complement KINE 3350 Physiology of Exercise. Laboratory equipment is used to collect data and analyze results. Prerequisite(s): Anatomy and Physiology and concurrent enrollment in KINE 3350 or completion of 3 semester credit hours of undergraduate exercise physiology. Fall, Spring

### **KINE 3251 Physiology of Exercise Lab**

Semester Credit Hours: 2 sch Select and apply appropriate laboratory procedures and tests used to assess physiologic factors of human performance. Students will analyze results and communicate effectively with subjects, patients, healthcare providers and other stakeholders. Corequisite(s): KINE 3350 Fall

### **KINE 3310 Motor Development**

Semester Credit Hours: 3 sch An examination of the factors affecting physical growth, those influencing the acquisition of fundamental motor skills, and the effects of aging upon physical performance. Fall, Spring, Summer

### **KINE 3330 Physical Activity for the Disabled**

Semester Credit Hours: 3 sch Introduction to various disabling conditions with particular emphasis on their impact upon an individual's ability to perform sports and other physical activities. The nature of appropriate physical activity programs for disabled individuals is explored. Spring

### **KINE 3332 Instructional Styles For Diverse Learners**

Semester Credit Hours: 3 sch Introduction to various instructional styles with particular emphasis on their impact upon the effective instruction of learners with diverse needs and learning styles. Design of task progressions and units for development of higher order thinking skills is explored. Fall

### **KINE 3340 Analysis of Human Movement**

Semester Credit Hours: 3 sch Integration of skeletal and neuromuscular anatomy and physiology with mechanical principles of human movement to structurally and prescriptively analyze movement patterns for performance improvement. Prerequisite(s): KINE 2385, or BIOL 3350/3150 (4 credits), or equivalent. Fall, Spring

### **KINE 3350 Physiology of Exercise**

Semester Credit Hours: 3 sch This course provides scientific, theoretical, and practical knowledge required to utilize appropriate laboratory procedures to assess physiological concepts as they apply to acute and chronic effects of exercise at the cellular and systemic levels. Prerequisite(s): BIOL 3352, BIOL 3153, CHEM 1311, CHEM 1111 Corequisite(s): KINE 3251 Fall

### **KINE 3360 Coaching of Sports**

Semester Credit Hours: 3 sch Students will gain the knowledge and competencies necessary to serve effectively in the coaching setting. Topics germane to a variety of sports and coaching settings are covered including sport management, liability, training (psychological and physical), practice planning and supervision, sport pedagogy, developmental factors (physiological, social and cognitive) applied to coaching and other topics. Skills and strategies associated with specific sports are not covered in detail. Fall

### **KINE 3500 Health and Fitness Assessment**

Semester Credit Hours: 5 sch This class promotes the development of scientific, theoretical and applicable knowledge of the assessment of health and fitness. the course includes the application and interpretation of health and fitness related assessment measures. Prerequisite(s): BIOL 3352, BIOL 3153, CHEM 1311, CHEM 1111 Fall

### **KINE 4001 Senior Student Success**

Semester Credit Hours: 0 sch This course is designed to provide ongoing student support in the kinesiology program through focused strategies to promote personal and academic success. This course is required for all KINE students. Fall

### **KINE 4300 Measurement of Performance in Exercise Sciences**

Semester Credit Hours: 3 sch A comprehensive overview of the statistical techniques, computer applications, and evaluation procedures utilized by kinesiology professions in applied and research settings. Prerequisite(s): have fulfilled general education mathematics requirement. Fall, Spring

### **KINE 4310 Sports Skill Analysis**

Semester Credit Hours: 3 sch Students will apply the anatomical and mechanical principles of human movement in the assessment of sports skills. Prerequisite(s): Must have fulfilled General Education Mathematics requirement, completed KINE 2385 or BIOL 3350/3150 and KINE 3340. Spring

### **KINE 4320 Psychology of Sport**

Semester Credit Hours: 3 sch Concepts in psychology as applied to an individual's involvement in sport and other forms of competitive physical activity. Emphasis on motivation, stress management, personality theory, performance enhancement, and group dynamics. Fall

### **KINE 4330 Motor Learning and Control**

Semester Credit Hours: 3 sch Variables influencing the control and learning of movement skills. Emphasis on the neural, physical, and behavioral aspects of motor control and the acquisition of skilled movements as a result of practice. Fall, Spring

### **KINE 4340 Sociology of Sport and Physical Activity**

Semester Credit Hours: 3 sch The role of sport in society is examined. Special attention is given to a critical examination of abuses in modern sport and to social influences which act to modify sport. Spring

### **KINE 4345 Sport in the Ancient World**

Semester Credit Hours: 3 sch Examines sport and physical activity in the ancient cultures, including Greek, Roman, Middle Eastern, Mesoamerican and others. Fall

### **KINE 4350 Psychology of Exercise**

Semester Credit Hours: 3 sch Concepts in psychology applied to an individual's involvement in exercise. Emphasis on theoretical models and methods for assessing exercise adherence. Investigation of methods and strategies for behavior intervention and program development to promote adherence to exercise programs. Spring PSYC 4350

### **KINE 4360 Exercise for Special Populations**

Semester Credit Hours: 3 sch Examination of the unique physiological attributes one must consider when prescribing exercise for individuals with specific diseases and specialized health considerations, including rheumatoid arthritis, diabetes, chronic respiratory disorders, cardiovascular disease, hypertension, obesity, and pregnancy. Prerequisite(s): KINE 2385 (3 credits), or BIOL 3350/BIOL 3151 and BIOL 3352/BIOL 3153 (8 credits), or equivalent. Spring

### **KINE 4362 Cardiorespiratory Physiology I**

Semester Credit Hours: 3 sch This course outlines physiological functioning of the cardiorespiratory system including adaptations from conditioning programs and environmental effects. Students will utilize testing procedures to assess cardiorespiratory function. Prerequisite(s): BIOL 3350, BIOL 3151 Fall

### **KINE 4363 Cardiorespiratory Physiology II**

Semester Credit Hours: 3 sch Students will assess physiological functioning of the cardiorespiratory system including adaptations from conditioning programs and environmental effects. Prerequisite(s): KINE 4362 Spring

### **KINE 4364 Exercise and Nutrition**

Semester Credit Hours: 3 sch Examine the relationship between nutrition, wellness, exercise, and human performance. Students will apply nutritional concepts and integrate human characteristics to the appraisal of wellness and performance, including supplements and ergogenic aids and nutrition assessment. Prerequisite(s): KINE 3350 Spring

### **KINE 4365 Concepts in Strength & Conditioning**

Semester Credit Hours: 3 sch The class is designed to enhance the student's understanding of the physiological and biomechanical aspects of strength and fitness training methods. It will focus specifically on adaptations associated with aerobic, anaerobic and resistance training exercise programs. Prerequisite(s): KINE 2385, KINE 3340 and KINE 3350 Fall, Spring

### **KINE 4367 Biogenetics and Exercise**

Semester Credit Hours: 3 sch This course will explore the biological and genetic aspects of fitness, exercise, and human performance, including biological and genetic predispositions to tolerance and adaptations. Fall, Spring

### **KINE 4375 Pathophysiology and Exercise**

Semester Credit Hours: 3 sch Examine the impact of common disease process and conditions on fitness, exercise, and human performance. Students will compare and contrast exercise tolerance and adaptation in a variety of populations. Fall, Spring

### **KINE 4389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. May be acceptable for graduate credit.

### **KINE 4391 Independent Study In Kinesiology**

Semester Credit Hours: 3 sch Design of a research project in the area of kinesiology which includes professional involvement with individuals in an exercise and/or sport setting. A proposal of the research project is to be developed which includes a problem statement, a review of literature and a concise description of the methods used to collect and analyze data. The written proposal is submitted to the faculty of the Department of Kinesiology followed by a brief oral presentation. Fall, Spring, Summer

### **KINE 4392 Practicum in Kinesiology**

Semester Credit Hours: 3 sch Using the research project proposal developed in the independent study, conduct the study and collect and analyze data. The research methodology must include professional involvement over time with individuals in an exercise and/or sport setting. The results of the project will be submitted to the Kinesiology faculty in a brief oral presentation and as a tangible product. Acceptable end products of the practicum experience may include items such as, websites, workshops, coaching manuals, papers presented at professional meetings, refereed publications, or other tangible materials that will give an overview of the student's experience. Fall, Spring, Summer

### **KINE 4393 Practicum: Exercise Science I**

Semester Credit Hours: 3 sch This course is dedicated to the placement of students in high-quality internship and externship experiences within the field of exercise science. This course offers students the opportunity to apply skills and knowledge in a field/technical setting. Fall, Spring

### **KINE 4394 Practicum: Exercise Science II**

Semester Credit Hours: 3 sch This course is a 480-hour, off-campus, research practicum designed to allow students to apply their research skills to genuine problems or issues with supervision. Students are required to work on a current research project in a cooperating facility under the supervision of the facility manager and their major advisor. The results of the research will be presented in the form of a journal-ready manuscript. This practicum should be taken during the student's last semester before graduating. Fall, Spring, Summer

### **KINE 4460 Exercise for Special Populations**

Semester Credit Hours: 4 sch Examination of the unique physiological attributes one must consider when prescribing exercise for individuals with specific diseases and specialized health considerations, including rheumatoid arthritis, diabetes, chronic respiratory disorders, cardiovascular disease, and hypertension. Fall, Spring

### **KINE 4494 Practicum: Exercise Science II**

Semester Credit Hours: 4 sch This course is dedicated to the placement of students in high-quality internship and externship experiences within the field of exercise science. This course offers students the opportunity to apply skills and knowledge in a field/technical setting. Spring

### **KINE 4565 Concepts in Strength and Conditioning**

Semester Credit Hours: 5 sch Students will apply physiological and biomechanical principles to the development, adaptation, and modification of strength and fitness training programs to meet individual needs and goals. This course will focus on proper body mechanics and appropriate techniques. Spring

## **Management**

### **MNGT 3303 Introduction to Business Analytics**

Semester Credit Hours: 3 sch Topics cover statistical concepts that are essential to understanding and using business analytics techniques. Software packages used include SAS, Excel and more. Prerequisite(s): BUSI 2345

### **MNGT 3305 Landman Principles**

Semester Credit Hours: 3 sch The course provides an overview of the landman's role in the oil and gas industry and helps develop primary skills that may be used by a future landman. Fall, Spring

### **MNGT 3309 Energy Management**

Semester Credit Hours: 3 sch Exploration of basic issues in energy management with some focus on marketing, finance, human resources, and accounting issues in energy businesses. The course also provides basic insights into the history of the energy industry and strategic thrust areas for future growth. Fall, Spring

### **MNGT 3310 Principles of Management**

Semester Credit Hours: 3 sch Fundamental concepts of management including principles of administration, modern organization theory, goal-setting, leadership and decision-making. Fall, Spring

### **MNGT 3312 Human Resource Management**

Semester Credit Hours: 3 sch This is a study of principles and practices in human resource management systems including such topics as recruiting, selection, training and development compensation, health and safety, employee and labor relations, human resource research information systems, and workforce planning. Prerequisite(s): MNGT 3310. Fall, Spring

### **MNGT 3315 Developing Management Skills**

Semester Credit Hours: 3 sch Developing Management Skills is designed to provide students with fundamental management and leadership skills that are needed for personal and managerial effectiveness. Topics that will be discussed include developing self-awareness, managing stress, solving problems analytically and creatively, communicating effectively, gaining power and influence, motivating others, managing conflict, empowering and delegating, building effective teams, and leading positive change. Prerequisite(s): MNGT 3310.

### **MNGT 3318 Small Business Management**

Semester Credit Hours: 3 sch This is a study of the special circumstances surrounding starting and operating a small business. Specific attention is given to understanding the uniqueness of the small business owner. Fall

### **MNGT 3330 Organizational Behavior**

Semester Credit Hours: 3 sch This is a study of human behavior in organizations, motivation, interpersonal communication and behavior, group behavior, leadership, power, organizational culture, change, and development; job satisfaction; social structure and processes; informal organization; ethical concepts; international organizational behavior issues; organizational theory. Prerequisite(s): MNGT 3310. Fall, Spring

### **MNGT 3333 Information System Fundamentals**

Semester Credit Hours: 3 sch Introduction to the organizational and managerial foundations of information systems. The role of information systems in enhancing business processes and management decision making is emphasized. Students experience use of business application software in problem solving. Prerequisite(s): BUSI 2345 Cross-listed with ACCT 3333.

### **MNGT 3334 Healthcare Management Information Systems**

Semester Credit Hours: 3 sch A survey of the management information systems used in the healthcare industry and the role of information systems in the efficiency operation of healthcare services. The course will also highlight current regulatory and social issues patient information and the use of information technology in healthcare. Prerequisite(s): Junior Standing

### **MNGT 3340 Production Operations Management**

Semester Credit Hours: 3 sch This course examines the planning, design, execution, and coordination of all activities that create goods or provide services. It addresses how upper level management can improve decision-making in both the manufacturing and service sectors. The course introduces productivity, competitiveness, and strategy; decision-making; quality management; product and service design; process selection and capacity planning; linear programming; facility layout; location planning and analysis; the transportation model; project management; design of work systems; and learning curves. Prerequisite(s): BUSI 2342 Fall, Spring

### **MNGT 3350 Supply Chain Concepts**

Semester Credit Hours: 3 sch An overview of the principles, techniques and practices of supply chain management through strategic alliances and information management. Topics include but are not limited to supplier selection, purchasing, e-commerce, production decisions, inventory and warehousing, distribution, and transportation. Crosslisted with ITEC 3350.

### **MNGT 3360 Global Logistics**

Semester Credit Hours: 3 sch This course covers international logistics operations including foreign production and outsourcing. Air, sea, land inter modal transportation are discussed as well as international financial transaction, documentation, customs procedures, and the associated intermediaries.

### **MNGT 3370 Business and Ethics**

Semester Credit Hours: 3 sch This is a study of the impact of societal influences and ethical consideration on business decision-making. Special attention is given to professional ethics and the role of certified public accountants in society. Prerequisite(s): MNGT 3310. Fall, Spring

### **MNGT 3380 Managing Technology**

Semester Credit Hours: 3 sch Study of the functions of a manager in technological and engineering oriented organizations.

### **MNGT 4303 Advanced Business Analytics**

Semester Credit Hours: 3 sch This course introduces business analytics in a case-embedded business environment. Topics cover business data collecting, visualization, exploration and modeling. Software used includes SAS, Excel, and more. Prerequisite(s): MNGT 3303

### **MNGT 4307 Project Management Elements**

Semester Credit Hours: 3 sch This course introduces a holistic approach to project management. It emphasizes the project management process and tools. Planning, scheduling, and controlling of the projects, including determination of appropriate project teams, resource allocation, budgeting, cost estimation, and managing project teams as well as stakeholder expectations are among topics covered in this course. Fall, Spring

### **MNGT 4320 International Management**

Semester Credit Hours: 3 sch This is a study of administrative philosophies, policies, and practices of international business organizations. The nature of management processes and activities is examined in terms of different social, cultural, political, and economic environments. Prerequisite(s): MNGT 3310. Fall

### **MNGT 4324 Energy Law**

Semester Credit Hours: 3 sch This course is an upper level business law elective and will focus on the legal concepts involving ownership, exploration and development of natural resources, particularly oil, gas, and wind. Prerequisite(s): MNGT 3310 and BUSI 3324 Fall

### **MNGT 4325 Environmental Law & Regulation in the Energy Industry**

Semester Credit Hours: 3 sch This course focuses on water regulation and protection, conservation of natural resources, jurisdiction, and regulatory authority of federal and state administrative agencies, and current trends in natural resource protection and management. Examination of these topics from the perspective of firms in the energy industry. Prerequisite(s): BUSI 3324 . Fall

### **MNGT 4326 Real Property Law**

Semester Credit Hours: 3 sch General law of real property; historical development, acquisition of title to personal property, estates in land, landlord, and tenant relations, easements, deeds, mortgages, adverse possession, wills, and trusts. Prerequisite(s): BUSI 3324 . Fall

### **MNGT 4331 Healthcare Management**

Semester Credit Hours: 3 sch This course engages students in an overview of the management concepts and issues related to the effective/efficient delivery of services in healthcare organizations (HCOs). Students will be introduced to a wide range of managerial, policy and other issues that they are likely to encounter in healthcare management. Prerequisite(s): Junior standing and MNGT 3310, or similar approved courses in management concepts. Spring

### **MNGT 4335 Family Business Strategies**

Semester Credit Hours: 3 sch Family business strategies is directed to (1) students who will enter into the management of a family business, either their family's or someone else's, and (2) students who will do business with family firms in some capacity i.e., consult to them, work with them in private wealth management, mergers and acquisitions, banking, outsourcing, etc. Prerequisite(s): Junior Standing Fall

### **MNGT 4336 Healthcare Law**

Semester Credit Hours: 3 sch A survey of the major laws and regulations impacting health services organizations. Prerequisite(s): PLSC 2305 or PLSC 2306 and Junior or Senior standing. Fall

### **MNGT 4337 Quality Improvement in Healthcare**

Semester Credit Hours: 3 sch This course reviews the practice of quality improvement in the healthcare industry. It introduces the latest theory, principles, tools and techniques to improve the quality of healthcare operations management. Prerequisite(s): MNGT 3310 Corequisite(s):

### **MNGT 4340 Operations Analysis and Control**

Semester Credit Hours: 3 sch This is a study of the operations and control of manufacturing or service entities. It follows MNGT 3340 Production Operations Management. Principal topics are aggregate planning, inventory management, material requirements planning, just-in-time systems, supply chain management, operations scheduling, project management, and quality control. The case-studies approach is used to examine much of the material and includes oral presentations, critiques, and written reports. Summer

### **MNGT 4350 Negotiation**

Semester Credit Hours: 3 sch This course will focus on skills necessary for business owners and managers to effectively resolve conflicts and controversies associated with organizations. The course will also examine the differences among negotiation, mediation, and arbitration, and the students will learn which method is most suitable for a given circumstance. Students will identify underlying issues giving rise to conflict and how to resolve them in an ethical manner.

### **MNGT 4355 Employment and Labor Law**

Semester Credit Hours: 3 sch An analysis of historical and contemporary laws in the United States that affect the human resource management function. Integration of employment and labor laws with social and economic forces shaping the current diverse management-labor environment. Prerequisite(s): MNGT 3310, MNGT 3312, and BUSI 3324 Fall

### **MNGT 4375 Strategic Management**

Semester Credit Hours: 3 sch This is the capstone course of the business administration degree. Based on environmental analysis, the formulation and implementation of strategic decisions within the organization are addressed. Emphasis is placed on integration of decisions at the functional areas. A supplemental fee is required for this course. Prerequisite(s): Must have completed all business core courses except ACCT 3333/MNGT 3333. Fall, Spring

### **MNGT 4380 Total Quality Management**

Semester Credit Hours: 3 sch This course covers the principles of quality management to include basic probability and statistics concepts, control charts for attributes and variables, sampling plans, quality audits and cost.

### **MNGT 4389 Selected Topics in Management**

Semester Credit Hours: 3 sch These are undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. Prerequisite(s): varies. Spring

### **MNGT 4391 Contract Study in Management**

Semester Credit Hours: 3 sch An individual independent study course or research project that addresses a topic not offered in the curriculum. Prerequisite(s): varies. Spring

### **MNGT 4392 Internship in Management**

Semester Credit Hours: 3 sch A supervised field experience as a management professional that enables the student to explore career options. Internship must involve work that is substantially management in nature with job responsibilities similar to those that a full-time employee would face. May be taken only once for credit. Prerequisite(s): MNGT 3310, and 6 additional hours of upper-level management; minimum GPA of 2.5 overall and 2.75 in major; and permission of academic advisor and faculty internship advisor.

## **Marketing**

### **MRKT 3300 Principles of Marketing**

Semester Credit Hours: 3 sch Survey of marketing fundamentals with focus upon product, price, promotion and distribution within the context of business decision-making. Prerequisite(s): ECON 2302. Fall, Spring, Summer

### **MRKT 3304 Small Business Marketing**

Semester Credit Hours: 3 sch Survey of marketing functions for small business owners. A focus will be given to unique issues of product, price promotion and distribution within the context of small business ownership. Prerequisite(s): MRKT 3300. Fall

### **MRKT 3306 Retailing and Distribution**

Semester Credit Hours: 3 sch Consideration of the important role retailing plays in the successful dissemination of consumer goods. Both traditional and nontraditional forms of retailing will be investigated. Special retail-related distribution problems will also be covered. Prerequisite(s): MRKT 3300. Fall

### **MRKT 3307 Sales Management**

Semester Credit Hours: 3 sch Planning, organizing, directing and controlling the promotion function as it relates to the marketing mix; also, stress is placed upon professional selling techniques. Fall, Spring

### **MRKT 3315 Consumer Behavior**

Semester Credit Hours: 3 sch Concepts of consumer behavior. Emphasis on psychological, sociological and economic variables and their effects on purchasing behavior. Prerequisite(s): MRKT 3300. Fall, Spring

### **MRKT 4300 Digital Branding**

Semester Credit Hours: 3 sch This course builds upon the fundamentals of traditional brand management strategies in marketing and practices developing and delivering multi-channel digital branding plans. This course will review best practices and trends in digital branding, understanding business models and principles underlying marketing and digital branding campaign with case studies, interactive exercises and semester-long branding projects. Prerequisite(s): MRKT 3300 Summer

### **MRKT 4301 E-Marketing**

Semester Credit Hours: 3 sch Exploration of the basic issues and methods of electronic (internet-based) marketing within the general context of electronic commerce. Adaptation of basic marketing logics is emphasized. Prerequisite(s): MRKT 3300 Summer



### **MRKT 4302 E-Commerce**

Semester Credit Hours: 3 sch The course aims to focus on e-commerce principles and practice. It covers selling and marketing on the web, content management, mobile commerce, online auctions, legal and ethical issues, and e-commerce security. Online trading, and payments are also discussed in the course. All students are expected to do a comprehensive e-commerce project. Prerequisite(s): MRKT 3300 Summer

### **MRKT 4303 Digital Advertising**

Semester Credit Hours: 3 sch Upon completion of the course, students should have an understanding of the fundamentals of digital advertising. This involves primary concepts geared towards launching a successful online advertising campaign. The concepts include: examining the internal and external environment, engaging in effective planning, executing, monitoring, and implementing follow up procedures for the campaign. The course should also provide some of the tools to manage people more effectively. Prerequisite(s): MRKT 3300 Spring

### **MRKT 4304 Digital Marketing Analytics**

Semester Credit Hours: 3 sch This course provides both quantitative and qualitative approaches to understanding consumers' needs and to measure the effectiveness of marketing communications and strategies in the digital world from a practitioner's perspective. Topics include digital marketing concepts, performance measurements, online consumer experience analytics, and improved digital marketing strategies. Prerequisite(s): MRKT 3300 Fall

### **MRKT 4305 Energy Marketing**

Semester Credit Hours: 3 sch The course aims to provide students with an introduction to the energy industry. More specifically, the course will provide a fundamental understanding of energy marketing concepts and considerations. Topics include: introduction to the oil and gas industry, marketing mix considerations in the oil and gas industry, identification of unique marketing challenges of energy, and analysis of supply and demand (oil and gas). Summer

### **MRKT 4308 Advertising and Promotions**

Semester Credit Hours: 3 sch This course provides students with the requisites for planning, organizing, directing and controlling the promotion function as it relates to the marketing mix. Understanding of how brands affect product values and consumer behavior. Quantitative analysis of efficiencies for all advertising media available in modern marketing. Prerequisite(s): MRKT 3300 Fall, Spring

### **MRKT 4312 Marketing Strategy**

Semester Credit Hours: 3 sch Emphasis on marketing strategy and tactics using case studies of corporate successes and failures. Prerequisite(s): MRKT 3300 plus 6 additional hours of marketing and senior standing. Spring, Summer

### **MRKT 4314 Marketing Research and Information Systems**

Semester Credit Hours: 3 sch Behavioral sciences research methods, social process and structure influences upon marketing activities and their integration as a total system of marketing action. Prerequisite(s): MRKT 3300 and BUSI 2342 Fall, Spring

### **MRKT 4320 International Marketing**

Semester Credit Hours: 3 sch Enterprise, comparative marketing, transport institutions and systems in selected foreign countries and the United States. Emphasizes ethnic and cultural differences in marketing strategy. Prerequisite(s): MRKT 3300.

### **MRKT 4322 Social Media Marketing**

Semester Credit Hours: 3 sch This course will be an in-depth study of the social media as marketing tools. It will provide students with a basic understanding of social media networking and its marketing applications. The course will address the needs of the new age economy. Prerequisite(s): MRKT 3300. Fall, Spring

### **MRKT 4335 Healthcare Marketing**

Semester Credit Hours: 3 sch This course provides an overview of the role of marketing in the healthcare industry. It will examine the methods for designing healthcare systems responsive to patient needs and the promoting and pricing of healthcare services. Issues relating to ethic and social responsibility in the marketing of healthcare services will be studied.

### **MRKT 4359 Service Marketing**

Semester Credit Hours: 3 sch Emphasis on marketing in the service sector of the economy plus application of marketing techniques to service, ideological, educational, and not-for-profit organizations. Prerequisite(s): MRKT 3300. Fall, Spring

### **MRKT 4389 Selected Topics in Marketing**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. Prerequisite(s): varies. Fall

### **MRKT 4391 Contract Study in Marketing**

Semester Credit Hours: 3 sch An individual independent study course or research project that addresses a topic not offered in the curriculum. Prerequisite(s): varies. Fall, Spring

### **MRKT 4392 Internship in Marketing**

Semester Credit Hours: 3 sch A supervised field experience as a marketing professional that enables the student to explore career options. Internship must involve work that is substantially marketing in nature with job responsibilities similar to those that a full-time employee would face. May be taken only once for credit. Prerequisite(s): MRKT 3300 and 6 additional hours of upper-level marketing; minimum GPA of 2.5 overall and 2.75 in the major; and permission of academic advisor and faculty internship advisor.

## **Mathematics**

### **MATH 0307 Non-Course Based Option in Mathematics**

Semester Credit Hours: 3 sch Non-Course Competency-Based Option in Mathematics. The content of this course will be tailored to the individual student and may include basic algebra, linear equations and inequalities, polynomials, rational expressions, factoring, exponents and radicals, and quadratic equations. Fall, Spring

### **MATH 0399 Fundamentals of Mathematics**

Semester Credit Hours: 3 sch Intended to prepare students for entry into MATH 1332, MATH 1314 or MATH 1324. This is a non credit course including introductory and intermediate algebra and geometry. Repeatable, but does not count towards a degree. Fall, Spring

### **MATH 1314 College Algebra**

Semester Credit Hours: 3 sch Study of quadratics, polynomial, rational, logarithmic, and exponential functions; systems of equations; progressions; sequences and series; and matrices and determinants. Prerequisite(s): Two years of high school algebra, one year of high school geometry, and satisfactory score on placement examination or completion of MATH 0399. Fall, Spring, Summer

### **MATH 1324 Applications of Discrete Mathematics**

Semester Credit Hours: 3 sch Mathematics for modeling in the social and behavioral sciences. Topics include algebra, linear equations in two variables, and exponential and logarithmic functions. Other topics are chosen by the instructor. Course emphasizes application to social science and economics. Prerequisite(s): Two years of high school algebra, one year of high school geometry and a satisfactory score on placement examination or completion of MATH 0399. Fall, Spring

### **MATH 1325 Applications of Continuous Mathematics**

Semester Credit Hours: 3 sch This course introduces differential calculus and its applications to optimization. Applications are drawn from social science and economics. Prerequisite(s): MATH 1324. Fall, Spring

### **MATH 1332 Contemporary Mathematics I**

Semester Credit Hours: 3 sch Modern applications of mathematics including graph theory, optimization, data organization, and social decision models. Prerequisite(s): Two years of high school algebra, one year of high school geometry and satisfactory score on placement examination or completion of MATH 0399. Fall, Spring

### **MATH 1342 Elementary Statistics**

Semester Credit Hours: 3 sch Students will learn the introductory techniques of collection, analysis, presentation, and interpretation of data and probability. Analysis included descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Prerequisite(s): TSI complete in MATH. Fall, Spring

### **MATH 1350 Foundations of Elementary Mathematics I**

Semester Credit Hours: 3 sch Concepts of sets, functions, numeration systems, number theory; and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem-solving and critical thinking. Prerequisite(s): Completion of MATH 1314, MATH 1324, MATH 1332, or MATH 1342 with a grade of C or better. Fall, Spring

### **MATH 2350 Foundations of Elementary Mathematics II**

Semester Credit Hours: 3 sch Concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem-solving and critical thinking. The course is designed specifically for students who seek middle grades (4-8) teacher certification. Prerequisite(s): Completion of MATH 1350 with a grade of C or better, and MATH 1314. Fall, Spring

### **MATH 2412 Precalculus**

Semester Credit Hours: 4 sch College algebra (sets, functions, relations, logic), trigonometry (circular functions, logarithms and exponential functions), and analytic geometry (standard form conic sections). Prerequisite(s): Two years of high school algebra, one year of high school geometry and satisfactory score on placement examination or completion of MATH 1314 or MATH 1324. Fall, Spring

### **MATH 2413 Calculus I**

Semester Credit Hours: 4 sch Differentiation of functions of one variable, introduction to integration. Prerequisite(s): MATH 2412 or satisfactory score on placement examination. Fall, Spring

### **MATH 2414 Calculus II**

Semester Credit Hours: 4 sch Continuation of MATH 2413. Integration of transcendental functions, techniques of integration, sequences and series. Prerequisite(s): MATH 2413 Fall, Spring

### **MATH 2415 Calculus III**

Semester Credit Hours: 4 sch Continuation of MATH 2414, Vector and multivariate calculus, transformations of coordinates. Green's and Stokes' Theorem. Prerequisite(s): MATH 2414. Fall, Spring

### **MATH 3301 Introduction to Probability I**

Semester Credit Hours: 3 sch Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability, functions, continuous probability densities, joint distribution, transformation of random variables, moments and generating functions of random variables, limit theorems. Prerequisite(s): MATH 2414. Fall, Spring, Summer

### **MATH 3302 Introduction to Continuous Probability**

Semester Credit Hours: 3 sch This course begins with basic concepts of probability and statistics based on discrete and continuous distributions. The course then introduces selected topics based on Calculus. Prerequisite(s): MATH 2414 Fall, Spring

### **MATH 3305 Mathematical Reasoning**

Semester Credit Hours: 3 sch Logic methods of proof, set theory, relations, functions, cardinality. Algebraic properties of the real, rational, and integer number systems. Prerequisite(s): MATH 2414. Fall, Spring

### **MATH 3310 Linear Algebra**

Semester Credit Hours: 3 sch Vectors, vector spaces, matrices, linear transformations, eigenvalues, eigenvectors, canonical forms and their applications. Prerequisite(s): MATH 2414. Fall, Spring

### **MATH 3320 Differential Equations**

Semester Credit Hours: 3 sch Ordinary differential equations including power series, Laplace transform methods and systems of linear differential equations with applications. Special emphasis on existence and uniqueness of solutions. Prerequisite(s): MATH 2414 Fall, Spring

### **MATH 3350 Topics in Geometry**

Semester Credit Hours: 3 sch Cross ratio, elementary transformations, Euclidean constructions, introduction to non-Euclidean geometry, and other topics in modern geometry. Prerequisite(s): MATH 3305. Spring

### **MATH 4315 Algebraic Structures**

Semester Credit Hours: 3 sch Sets, groups, rings and fields, with applications to the ring of integers and polynomial rings. Prerequisite(s): MATH 3305 and MATH 3310 Spring

### **MATH 4320 Partial Differential Equations**

Semester Credit Hours: 3 sch Study of second order linear and nonlinear partial differential equations and their applications. Emphasis on the heat, wave, and Laplace equations. Separation of variables and series solution methods in various coordinates systems. Prerequisite(s): MATH 2415, MATH 3310, MATH 3320. Spring

### **MATH 4325 Number Theory**

Semester Credit Hours: 3 sch Basic properties of integers, including primes, unique factorization, divisibility congruencies, Euler's phi function, Diophantine equations and other selected topics. Prerequisite(s): MATH 3305. Fall, Spring

### **MATH 4360 Theory of Real Analysis**

Semester Credit Hours: 3 sch this course introduces the rigorous theory behind limits, continuity, uniform continuity, derivatives, integrals, and mean value theorems. Prerequisite(s): MATH 3305 and MATH 3310 Fall

### **MATH 4365 Applied Functional Analysis**

Semester Credit Hours: 3 sch This course teaches classical techniques through their application to specific problems. Possible topics include variational calculus, nonlinear waves, Green's functions, perturbation theory, continuum mechanics, tensor calculus, series solution methods and special functions. Specific topics at instructor's discretion. Prerequisite(s): MATH 4360 Fall

### **MATH 4370 Analysis of Complex Variables**

Semester Credit Hours: 3 sch Complex analysis including analytic functions, power series, residues and conformal mappings. Prerequisite(s): MATH 2415 Fall

### **MATH 4389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. May be acceptable for graduate credit. Fall

### **MATH 4391 Contract Study**

Semester Credit Hours: 3 sch Advanced independent study or research (equivalent to senior-level course). These courses will not count for graduate credit. Fall, Spring

## **Mechanical Engineering**

### **MENG 3206 Mechanical Engineering Laboratory I**

Semester Credit Hours: 2 sch 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. Prerequisite(s): PHYS 2326/PHYS 2126 Corequisite(s): ENGR 3332. Fall

### **MENG 3324 Manufacturing Processes**

Semester Credit Hours: 3 sch Study of modern manufacturing processes for metals, polymers, and ceramics. Casting, deformation, polymer molding, and machining are studied. Prerequisite(s): ENGR 3303 Corequisite(s): ENGR 3332. Fall

### **MENG 3348 Computer-Aided Mechanical Engineering Design**

Semester Credit Hours: 3 sch Extensive use of computers as part of the mechanical engineering design process. Introduction to the finite element method for thermal and mechanical systems design. Software packages using solid modeling, finite element analysis, nonlinear solvers, and kinematic simulation will be introduced. Design project work using computational tools is a major component of the course. Prerequisite(s): ENGR 1204, ENGR 3375 and ENGR 3332. Spring

### **MENG 3351 Heat Transfer**

Semester Credit Hours: 3 sch Convection, conduction, and radiation heat transfer. Heat flow in fluids and solids. Steady state and transient heat flow. Design of heat transfer equipment and mathematical modeling and analysis of heat transfer. Prerequisite(s): ENGR 3375 and MATH 3320. Spring

### **MENG 3356 Fluid Mechanics II**

Semester Credit Hours: 3 sch Surface resistance to flow, wall shear stress, and boundary layers. Internal flow, laminar and turbulent flow in conduits. External flow, lift and drag. Compressible flow, normal shock waves, isentropic flow through nozzles and diffusers. Introduction to turbomachinery. Prerequisite(s): ENGR 3354 Spring

### **MENG 3364 Mechanical Design I**

Semester Credit Hours: 3 sch Fundamental principles of machine component design are introduced. Stress and deflection analysis of machine elements; failure theories for static and fatigue loading. Prerequisite(s): ENGR 3332 Spring

### **MENG 3376 Thermodynamics II**

Semester Credit Hours: 3 sch First and second law analysis of power cycles: Rankine vapor power cycles; air-standard and Brayton gas cycles. Refrigeration and heat pump cycles and systems. Ideal gas mixtures and psychrometrics. Reacting mixtures and combustion. Prerequisite(s): ENGR 3375. Spring

### **MENG 4205 Thermo-Fluid and Mechanical Systems Laboratory**

Semester Credit Hours: 2 sch Laboratory practice and measurement of components and devices used in thermo-fluid and mechanical systems. Applications to practical problems in heat transfer, fluid mechanics, mechanics of materials, and dynamics. Prerequisite(s): ENGR 2302, MENG 3351, and ENGR 3354. Fall

### **MENG 4206 Mechanical Engineering Laboratory II**

Semester Credit Hours: 2 sch A continuation of the Mechanical Engineering Laboratory series with practical measurement problems in mechanical engineering. Prerequisite(s): ENGR 2302 and ENGR 3354 Spring

### **MENG 4365 Vibrations**

Semester Credit Hours: 3 sch Fundamentals of vibration theory and system response. Single and multiple degrees of freedom, damping, and vibration isolation. Prerequisite(s): ENGR 2302 and MATH 3320. Fall

### **MENG 4366 Senior Design I**

Semester Credit Hours: 3 sch Introduction to the design process. Customer needs, product specifications; concept generation and selection; design for manufacturing; economics of product development; prototyping. Teams of students work on a mechanical engineering capstone design project through the concept selection phase. Detail design will continue in course MENG 4468. Prerequisite(s): MENG 3364, MENG 3348. Fall

### **MENG 4368 Senior Design II**

Semester Credit Hours: 3 sch Continuation and conclusion of the mechanical engineering capstone design project. Students complete a detail design of a product, prepare of a formal written design report and give an oral presentation of the design. Course must be taken immediately following MENG 4366. Prerequisite(s): MENG 4366. Spring

## **MENG 4478 Senior Design**

Semester Credit Hours: 4 sch Introduction to the design process. Customer needs, product specifications; concept generation and selection; design for manufacturing; economics of product development; prototyping. Teams of students work on a mechanical engineering capstone design project that includes a complete detail design of product. Students prepare of a formal written design report and give periodic oral presentations of the design. Prerequisite(s): MENG 3364 or MENG 3348. Spring

# **Applied Music**

## **MUAP 1187 Applied Instruction I**

Semester Credit Hours: 1 sch 60 minutes weekly. Studio instruction open to all students. Prerequisite: instructor permission. Final exam is a music jury during finals week. Students will perform standard western classical repertory of the appropriate level as appropriate for their instruments. Fall, Spring, Summer

## **MUAP 1188 Applied Instruction II**

Semester Credit Hours: 1 sch 60 minutes weekly. Studio instruction open to all students. Prerequisite: instructor permission and MUAP 1187 or equivalent. Final exam is a music jury during finals week. Students will perform standard western classical repertory of the appropriate level as appropriate for their instruments. Fall, Spring, Summer

## **MUAP 2187 Applied Instruction III**

Semester Credit Hours: 1 sch 60 minutes weekly. Studio instruction open to all students. Prerequisite(s): instructor permission and MUAP 1188 or equivalent. Final exam is a music jury during finals week. Students will perform standard western classical repertory of the appropriate level as appropriate for their instruments. Fall, Spring, Summer

## **MUAP 2188 Applied Instruction IV**

Semester Credit Hours: 1 sch 60 minutes weekly. Studio instruction open to all students. Prerequisite(s): instructor's permission and MUAP 2187 or equivalent. Final exam is a music jury during finals week. Students will perform standard western classical repertory of the appropriate level as appropriate for their instruments. Fall, Spring, Summer

## **MUAP 3100 Junior Recital**

Semester Credit Hours: 1 sch Preparatory experience for the senior recital. Must be concurrently enrolled in MUAP 3187 or MUAP 3188. Fall, Spring, Summer

## **MUAP 3187 Applied Instruction V**

Semester Credit Hours: 1 sch 60 minutes weekly. Studio instruction open to all students. Prerequisite: instructor's permission and MUAP 2188 or equivalent. Final exam is a music jury during finals week. Students will perform standard western classical repertory of the appropriate level as appropriate for their instruments. Fall, Spring, Summer

## **MUAP 3188 Applied Instruction VI**

Semester Credit Hours: 1 sch 60 minutes weekly. Studio instruction open to all students. Final exam is a music jury during finals week. Students will perform standard western classical repertory of the appropriate level as appropriate for their instruments. Prerequisite(s): instructor's permission and MUAP 3187 or equivalent. Fall, Spring, Summer

## **MUAP 4100 Senior Recital**

Semester Credit Hours: 1 sch Capstone experience for graduating music majors Prerequisite(s): MUAP 3100. Fall, Spring, Summer

## **MUAP 4187 Applied Instruction VII**

Semester Credit Hours: 1 sch 60 minutes weekly. Studio instruction open to all students. Final exam is a music jury during finals week. Students will perform standard western classical repertory of the appropriate level as appropriate for their instruments. Prerequisite(s): instructor's permission, MUAP 3100, and MUAP 3188 or equivalent. Fall, Spring, Summer

### **MUAP 4188 Applied Instruction VIII**

Semester Credit Hours: 1 sch 60 minutes weekly. Studio instruction open to all students. Final exam is a music jury during finals week. Students will perform standard western classical repertory of the appropriate level as appropriate for their instruments. Prerequisite(s): instructor's permission and MUAP 4187 or equivalent. Fall, Spring, Summer

## **Music**

### **MUSI 1000 Recital Attendance for Musicians**

Semester Credit Hours: 0 sch Grade is Pass/Fail. Music minors must complete 4 semesters of pass credit while music majors must complete 7 semesters. No credit is given for the course. Stipulations as to the number of recitals required to meet the passing criteria will be set at the beginning of each semester based on the number of concerts available to students that semester. Fall, Spring, Summer

### **MUSI 1116 Sight Singing and Ear Training I**

Semester Credit Hours: 1 sch Aural skills (including sight-singing and ear training) are developed. It is recommended that students be co-enrolled in MUSI 1212. Fall

### **MUSI 1117 Sight Singing and Ear Training II**

Semester Credit Hours: 1 sch Aural skills (including sight singing and ear training) are developed. This course is a continuation of MUSI 1116. It is recommended that students co-enroll in MUSI 1312. Spring

### **MUSI 1210 Class Piano I**

Semester Credit Hours: 2 sch First semester of a four semester sequence designed to develop basic keyboard and musicianship skills including fundamental technique, scale playing, sight reading, harmonization, transposition, accompaniment, ensemble playing, and piano repertoire in preparation for the Piano Proficiency Exam. Music majors who do not complete the exam must take MUSI 1211. Fall

### **MUSI 1211 Class Piano II**

Semester Credit Hours: 2 sch Second semester of a four semester sequence designed to develop basic keyboard and musicianship skills including fundamental technique, scale playing, sight reading, harmonization, transposition, accompaniment, ensemble playing, and piano repertoire in preparation for the Piano Proficiency Exam. Music majors who do not complete the exam must take MUSI 2210. Prerequisite(s): MUSI 1210 or instructor permission. Spring

### **MUSI 1212 Music Theory I**

Semester Credit Hours: 2 sch The study of analysis and writing of tonal melody and diatonic harmony, including fundamental music concepts, scales, intervals, chords, 7th chords, and early four-part writing. Analysis of small composition forms. Prerequisite(s): MUSI 1304 or demonstrated approval by the instructor. Fall

### **MUSI 1213 Music Theory II**

Semester Credit Hours: 3 sch This course focuses on part-writing and harmonization with triade and their inversions. Also included is a chord vocabulary expanded to include materials from the common practice period as well as contemporary periods. Prerequisite(s): MUSI 1211 or approval from the instructor. Spring

### **MUSI 1301 Jazz, Pop & Rock**

Semester Credit Hours: 3 sch Historical introduction to jazz and the American popular song, including rock and roll. Prerequisite(s): No prerequisites. Fall, Spring, Summer

### **MUSI 1303 Fundamentals of Music**

Semester Credit Hours: 3 sch Introduction to the basic elements of music theory including scales, intervals, keys, triads, elementary ear training, notation, meter, and rhythm. Course does not apply to a Music, BM degree.

### **MUSI 1306 Music Appreciation**

Semester Credit Hours: 3 sch A non-technical survey course designed for the intelligent appreciation of Western and non-Western music styles represented throughout history. Recordings, videos, and live performance help illustrate the influence of music within the various fine arts. Fall, Spring

### **MUSI 1311 Music Theory and Aural Skills I**

Semester Credit Hours: 3 sch Reviews basic music theory, followed by study of diatonic melody, diatonic triadic and seventh chord harmony, embellishing tones, modes, and motivic variation procedures through analysis, part writing, composition, ear-training, sight-singing, and rhythmic reading. Required for all music majors. Fall

### **MUSI 1312 Music Theory and Aural Skills II**

Semester Credit Hours: 3 sch Continues MUSI 1311 to review basic music theory, followed by study of diatonic melody, diatonic triadic and seventh chord harmony, embellishing tones, modes, and motivic variation procedures through analysis, part writing, composition, ear-training, sight-singing, and rhythmic reading. Required for all music majors. Prerequisite(s): MUSI 1311. Spring

### **MUSI 2116 Sight Singing and Ear Training III**

Semester Credit Hours: 1 sch Aural skills (including sight reading and ear training) are developed. This course is a continuation of MUSI 1117. Prerequisite(s): MUSI 1116 and MUSI 1117 Fall

### **MUSI 2117 Sight Singing and Ear Training IV**

Semester Credit Hours: 1 sch Aural skills (including sight reading and ear training) are developed. This course is a continuation of MUSI 2116. Prerequisite(s): MUSI 1116, MUSI 1117, and MUSI 2116 Spring

### **MUSI 2210 Class Piano III**

Semester Credit Hours: 2 sch Third semester of a four semester sequence designed to develop basic keyboard and musicianship skills including fundamental technique, scale playing, sight reading, harmonization, transposition, accompaniment, ensemble playing, and piano repertoire in preparation for the Piano Proficiency Exam. Music majors who do not complete the exam must take MUSI 2211. Prerequisite(s): MUSI 1211 or instructor permission. Fall

### **MUSI 2211 Class Piano IV**

Semester Credit Hours: 2 sch Second semester of a four semester sequence designed to develop basic keyboard and musicianship skills including fundamental technique, scale playing, sight reading, harmonization, transposition, accompaniment, ensemble playing, and piano repertoire in preparation for the Piano Proficiency Exam. Music majors who do not complete the exam must take MUSI 2211. Prerequisite(s): MUSI 2210 or instructor permission. Spring

### **MUSI 2212 Music Theory III**

Semester Credit Hours: 2 sch This course is a continuation of the study of music theory. It includes the material of modulation, larger forms, and thematic development, and more advanced analytics. Prerequisite(s): MUSI 1213 Fall

### **MUSI 2213 Music Theory IV**

Semester Credit Hours: 2 sch this course is a continuation of the topics developed in MUSI 2212. The preceding materials are expanded to include melody, harmony, tonality, and the formal process of 20th century music. Prerequisite(s): MUSI 2212 Spring

### **MUSI 2311 Music Theory and Aural Skills III**

Semester Credit Hours: 3 sch Presents secondary seventh chords, modulation, chromatic melody and harmony, and small forms through analysis, part-writing, composition, ear-training, sight-singing, and rhythmic reading. Required for all music majors. Prerequisite(s): MUSI 1312. Fall

### **MUSI 2312 Music Theory and Aural Skills IV**

Semester Credit Hours: 3 sch Continues on from MUSI 2311 to present secondary seventh chords, modulation, chromatic melody and harmony, modern compositional techniques, and small and large forms through analysis, part-writing, composition, ear-training, sight-singing, and rhythmic reading. Required for all music majors. Prerequisite(s): MUSI 2311. Spring



### **MUSI 3208 Ensemble Repertoire**

Semester Credit Hours: 2 sch Investigation of literature for choirs, bands, orchestras, small ensembles, and special ensembles common in the public schools. Fall

### **MUSI 3220 Music Technology**

Semester Credit Hours: 2 sch An overview of music technology hardware and software tools for music educators. Topics will include sound system, digital recording and editing, sequencing software, music assessment and practice tools, handheld recording/playback devices, digital instruments, video editing and social media with music education applications. Spring

### **MUSI 3222 Choral Methods for Instrumentalists**

Semester Credit Hours: 2 sch This course is a comprehensive overview of choral music education methods for instrumentalists. Course topics will include vocal pedagogy, voice classification, warm-ups as vocal skill building, repertoire sources, changing voices, an introduction to diction and diction tools, choral ensemble organization and an overview of social and psychological aspects of group singing. Spring

### **MUSI 3225 Collaborative Piano**

Semester Credit Hours: 2 sch Develop basic accompanying skills for soloists and choirs. Emphasis will be on developing sight reading at the piano of open choral scores, reduction of complex and full scores to essential materials to be realized at the piano, realizing chord progressions. Further, students will explore accompaniment patterns in various styles of vocal music for ensembles and soloists. Prerequisite(s): Pass the piano proficiency exam. Fall

### **MUSI 3240 Voice Pedagogy I**

Semester Credit Hours: 2 sch A comprehensive overview of teaching singing through a detailed study of the musculo-skeletal structures, physiology and their interactions in singing. There will be considerable emphasis on teaching singing techniques appropriate in the private studio. Fall

### **MUSI 3280 Conducting Fundamentals**

Semester Credit Hours: 2 sch Develops basic psychomotor and score reading skills prerequisite to the art of conducting. Fall

### **MUSI 3306 Music Appreciation II**

Semester Credit Hours: 3 sch A non-technical survey course designed for the intelligent appreciation of Western and non-Western music styles represented throughout history. Recordings, videos, and live performances help illustrate the influence of music within the various fine arts. Corequisite(s): Meets concurrently with MUSI 1306 but includes additional coursework. Fall, Spring

### **MUSI 3308 Music History I**

Semester Credit Hours: 3 sch A historical survey of selected European practices up to 1700, following a consideration of the major fine-arts traditions of the world. Fall

### **MUSI 3309 Music History II**

Semester Credit Hours: 3 sch A historical survey of Western fine-art music from approximately 1700 to present. Prerequisite(s): MUSI 3308. Spring

### **MUSI 3310 Jazz, Pop & Rock II**

Semester Credit Hours: 3 sch Historical introduction to jazz and the American popular song, including rock and roll. Prerequisite(s): No prerequisites. Corequisite(s): Meets concurrently with MUSI 2310 but requires additional coursework. Fall, Spring, Summer

### **MUSI 3314 Survey of 20th Century Masterpieces of Music**

Semester Credit Hours: 3 sch An in-depth study of 10 major 20th-century compositions from the perspective of compositional technique, historical and cultural significance, communicative power and critical acceptance. Prerequisite(s): MUSI 1306, MUSI 1311, or instructor's consent.

### **MUSI 3316 History of Music Education in America**

Semester Credit Hours: 3 sch The study of music education in American public schools from colonization to present. Prerequisite(s): MUSI 1306, MUSI 1311, or instructor's consent. Spring

### **MUSI 3318 Jazz History**

Semester Credit Hours: 3 sch The study of the jazz idiom from its roots in ragtime and blues, through swing, bop, cool, fusion, and free styles, to current trends in mainstream jazz. Prerequisite(s): MUSI 1306, MUSI 1311, or instructor's consent. Fall

### **MUSI 3321 Singer's Diction and IPA**

Semester Credit Hours: 3 sch Singer's diction covers the pronunciation of the International Phonetic Alphabet and the teaching and performance of texts in foreign languages by vocal soloists and ensembles. Emphasis will be on diction in English, German, French, Spanish and the Italian languages. Spring

### **MUSI 3331 Choral Ensemble Methods**

Semester Credit Hours: 3 sch A comprehensive study of instructional methods for choral ensembles. Topics include auditions, learning style application in a vocal ensemble context, choral ensemble rehearsal techniques, children's choir, non-western singing traditions, historical choral style survey, choral tone, a survey of choral methods resources and an overview of the aesthetic and psychological experience of choral singing. Spring

### **MUSI 3342 Creative Development in Early Childhood**

Semester Credit Hours: 3 sch Students will focus on understanding creativity and the development of skills to assist and encourage young children to express their creative natures. Planning and production of materials that enhance creativity in self-expressive thought and play are emphasized. Prerequisite(s): PSYC 3341&nbsp;& Visual and Performing Arts general education requirement. Spring

### **MUSI 3368 Dance for Theatre**

Semester Credit Hours: 3 sch This class will focus on performing beginning movement through classical ballet as the basis for almost all other dance including period dance and introduction to movement in musical theatre/opera performance. Students will perform choreographed dance in one or more performances.

### **MUSI 3389 Multilist Course**

Semester Credit Hours: 1-3 sch Undergraduate courses that will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. Fall

### **MUSI 3391 Contract Study in Music**

Semester Credit Hours: 3 sch Students who are pursuing independent study or research as described in the contract study format. Fall, Spring

### **MUSI 4140 Vocal Pedagogy Field Experience**

Semester Credit Hours: 1 sch A continuation of MUSI 3241 (Vocal Pedagogy), students will teach a volunteer twelve, weekly 30-minute voice lessons. In this laboratory setting, lessons will be observed by the instructor and may be observed by other class members. The class will meet several times for discussion. Prerequisite(s): MUSI 3240. Spring

### **MUSI 4280 Ensemble Conducting Methods**

Semester Credit Hours: 2 sch Develops musical and interpersonal skills requisite for successful rehearsal leadership, emphasizing strategies effective for rehearsal of choral, band, string, and small ensembles. Techniques of formal analysis and stylistic practice are included. Prerequisite(s): MUSI 3280. Spring

### **MUSI 4302 History of Film Music**

Semester Credit Hours: 3 sch This course explores today's leading art form. It traces the history of film music, its changing relationship to cinematography, and its inspiring future. Students will learn to critically discuss the language of film music and the many roles it plays in cinematic drama. Finally, participants will learn to document their aesthetic experience of major film scores. Fall, Spring

### **MUSI 4303 Film Music**

Semester Credit Hours: 3 sch This course explores today's leading art form. It traces the history of film music, its changing relationship to cinematography, and its inspiring future. Students will learn to critically discuss the language of film music and the many roles it plays in cinematic drama. Finally, participants will learn to document their aesthetic experience of major film scores. Taught in Spanish. Also taught in English, but students can only take one of HUMA 4302 / MUSI 4302 / or HUMA 4303 / SPAN 4303 / MUSI 4303 for credit. Fall

## **Music Education**

### **MUED 3204 Music Methods for Children**

Semester Credit Hours: 2 sch Course addresses the basic approaches to teaching music in the elementary classroom for the regular classroom teacher, and also includes methods of instruction for the elementary and secondary general music class. Music is addressed as both a content area and also a component of an integrated approach to arts in education. A survey of curriculum materials and the development of age-appropriate lessons is included. Fall

### **MUED 3206 Secondary Music Methods**

Semester Credit Hours: 2 sch A comprehensive study of instructional and program materials, rehearsal techniques and program planning for secondary school choirs, bands, and orchestras. Topics include organization, scheduling, budgeting, purchasing, recruiting, motivation, and problems associated with evaluation. Methods of starting beginners and rehearsing ensembles are demonstrated with techniques addressing problems unique to public school instruction. Spring

### **MUED 3240 Marching Band Methods**

Semester Credit Hours: 2 sch A comprehensive overview of marching bands, their organization, and methods. Topics to be discussed include selecting music, copyright law, UIL Policies, judging and adjudication, show concept and design and how these are realized using 3D Pyware Java.

## **Music Ensemble**

### **MUEN 1121 University Choir**

Semester Credit Hours: 1 sch Open via audition to all members of the college community, University Choir is the primary choral ensemble at UTPB. The mission of this ensemble is to achieve a high degree of artistic excellence and to represent UTPB in public performance. The University Choir performs a broad range of classical college-level choral literature from every historical period in various languages, both accompanied and a cappella. All Vocal/Choral Emphasis music majors are expected to participate in this ensemble. May be repeated for credit. Fall, Spring

### **MUEN 1122 Falcon Wind Band**

Semester Credit Hours: 1 sch Open via audition to all members of the college community, Falcon Wind Band is the primary wind ensemble at UTPB. The mission of this ensemble is to achieve a high degree of artistic excellence and to represent UTPB in public performance. The Falcon Wind Band performs a broad range of college-level wind literature. All Wind/Percussion Emphasis music majors are expected to participate in this ensemble. May be repeated for credit. Spring

### **MUEN 1123 University Philharmonic**

Semester Credit Hours: 1 sch Open via audition to all members of the college community, University Philharmonic is the primary orchestral ensemble at UTPB. The mission of this ensemble is to achieve a high degree of artistic excellence and to represent UTPB in public performance. The University Philharmonic performs a broad range of college-level symphonic literature. All String Emphasis music majors are expected to participate in this ensemble. May be repeated for credit. Fall, Spring

### **MUEN 1124 Chamber Ensembles**

Semester Credit Hours: 1 sch Numerous chamber ensembles are available to UTPB students. The type and number of available ensembles are dependent upon program needs. Ensembles may include, but are not limited to: String quartet, brass quintet, chamber choir, woodwind trio, piano trio, low brass ensemble, flute choir, guitar ensemble, etc. May be repeated for credit. Fall, Spring

### **MUEN 1125 UTPB Concert Choir**

Semester Credit Hours: 1 sch Open to all members of the University with previous choral singing experience. Repertoire covered will include masterworks and quality repertoire from the historical canon and contemporary works. The choir performs for University events, concerts each semester and tours regionally, nationally and internationally. Corequisite(s): MUEN 1121 University Choir. Exceptions may be made with instructor approval. May be repeated for credit. Fall, Spring

### **MUEN 1126 Marching Band**

Semester Credit Hours: 1 sch This course develops the instrumental performance and marching skills of students. Objectives are to combine high level musical and visual performance to create interesting and entertaining maneuvers suitable for parades, football games, and other athletic/outdoor venues. This course is open to all students in all majors. May be repeated for credit. Fall

### **MUEN 3103 Guitar Class**

Semester Credit Hours: 1 sch Class instruction in guitar designed for students who are not majors in guitar. Students will gain understanding of basic techniques including: tuning, left/right hand positions, pentatonic scales, first position notes, open chords, barre chord techniques, slurs, string bends, harmonics, etc. involved in playing the guitar. Appropriate literature on and about the instrument will be discussed. Students must provide their own instrument as deemed acceptable by the instructor. Spring

### **MUEN 3105 Percussion Class I: Concert Percussion**

Semester Credit Hours: 1 sch Percussion Class I is an exploration of the instruments used on the concert stage: drums, cymbals, mallet and auxiliary percussion instruments. Emphasis will be on achieving rudimentary playing skill with an emphasis on the pedagogy of teaching another to play the instrument. Fall

### **MUEN 3106 Percussion Class II: Marching Percussion**

Semester Credit Hours: 1 sch Percussion Class II is an exploration of the instruments used on the marching field: Tenors, marching snare, marching bass drums and pit percussion. Emphasis will be on achieving rudimentary playing skills with an emphasis on the pedagogy of teaching another to play the instrument. Fall

### **MUEN 3107 Woodwind Class I: Single Reeds**

Semester Credit Hours: 1 sch Woodwind Class I is an exploration of the single reed instruments, clarinets, saxophones, and the flute. Emphasis will be on achieving rudimentary playing skills with an emphasis on the pedagogy of teaching another to play the instrument. Spring

### **MUEN 3108 Woodwind Class II: Double Reeds**

Semester Credit Hours: 1 sch Woodwinds Class II is an exploration of the double reed instruments, oboe, bassoon, and English horn. Emphasis will be on achieving rudimentary playing skill with an emphasis on the pedagogy of teaching another to play the instrument. Fall

### **MUEN 3109 Brass Class I: High Brass**

Semester Credit Hours: 1 sch Brass Class I is an exploration of the high brass instruments: trumpet and horn. Emphasis will be on achieving rudimentary playing skills with an emphasis on the pedagogy of teaching another to play the instrument. Fall

### **MUEN 3110 Brass Class II: Low Brass**

Semester Credit Hours: 1 sch Brass Class II is an exploration of the low brass instruments: Tuba, trombone, euphonium, baritones and sousaphones. Emphasis will be on achieving rudimentary playing skill with an emphasis on the pedagogy of teaching another to play the instrument. Spring

### **MUEN 3111 Strings Class I: Upper Strings**

Semester Credit Hours: 1 sch String Class I is an exploration of the high stringed instruments: violin and viola. Emphasis will be on achieving rudimentary playing skill with an emphasis on the pedagogy of teaching another to play the instrument. Fall

### **MUEN 3112 Strings Class II: Lower Strings**

Semester Credit Hours: 1 sch String Class I is an exploration of the low pitched instruments used in the symphony orchestra and contemporary music: string bass, cello, and electric bass. Emphasis will be on achieving rudimentary playing skill with an emphasis on the pedagogy of teaching another to play the instrument. Spring

### **MUEN 3113 Jazz Studies & Improvisation**

Semester Credit Hours: 1 sch This course introduces improvisational methods through task-oriented performance of selected jazz repertoire. The course covers concepts and practice methods used by jazz artists to gain improvisation skills. Students will apply the knowledge in their own practice and performance. Fall

### **MUEN 3120 Upper-Level Ensemble Credit**

Semester Credit Hours: 1 sch Provides experience in choral or instrumental performance and repertoire. Open to all students. May be repeated for credit. Fall, Spring

## **Natural Science**

### **NTSC 4311 History and Philosophy of Science**

Semester Credit Hours: 3 sch History and philosophical development of science from Classical Greece to modern times. Prerequisite(s): one year of natural science with laboratory, one year of mathematics. Fall, Spring

## **Nuclear Engineering**

### **NENG 3301 Introduction to Nuclear Power**

Semester Credit Hours: 3 sch Covers basic physics of radioactivity and basic nuclear interactions - fission and fusion. Basic operational principles of fission reactors, power generation, nuclear power control systems, efficiency and nuclear power safety. Prerequisite(s): PHYS 2325/PHYS 2125, PHYS 2326/PHYS 2126. Fall

### **NENG 4211 Nuclear Engineering Laboratory**

Semester Credit Hours: 2 sch An introduction to radiation physics and terminology, the properties of radioactive materials, sources and the types of ionizing radiation. The basic physical interaction of radiation with matter is covered, with applications to the theory of radiation detection, measurement, and dosimetry. Prerequisite(s): PHYS 2325/PHYS 2125, PHYS 2326/PHYS 2126. Spring

### **NENG 4311 Radioactive Materials Processing and Waste Management**

Semester Credit Hours: 3 sch This course covers behavior of radioactive substances, as well as their storage, processing, and disposal. It provides a basic understanding of the behavior of radioactive materials, sources of radioactive materials, techniques by which they are produced, refined, stored, and recovered from contaminated areas. Prerequisite(s): CHEM 1311/CHEM 1111, ENGR 3303. Fall

### **NENG 4321 Nuclear Reactor Engineering**

Semester Credit Hours: 3 sch This course is designed to provide an understanding of the physical theory and operation of a nuclear reactor core. Physical principles of operation, practical challenges, and numerical simulation of core behavior are explored. Prerequisite(s): PHYS 2325/PHYS 2125, MENG 3376, PHYS 3310. Fall

### **NENG 4331 Radiation and Radiation Protection**

Semester Credit Hours: 3 sch Radiation and Radiation Protection begins with an introduction to radiation physics and terminology, the properties of radioactive materials, sources of ionizing radiation, and the types of ionizing radiation. The basic physical interaction of radiation with matter is covered, with applications to the theory of radiation detection, measurement, and dosimetry. Prerequisite(s): PHYS 2325/PHYS 2125, PHYS 2326/PHYS 2126. Spring

# Nursing

## **NURS 3164 Dosage Calculations and Medical Terminology for Healthcare Professionals**

Semester Credit Hours: 1 sch This medical terminology course covers the medical language and terminology used by healthcare professionals; also includes dosage calculation using dimensional analysis. Fall, Spring, Summer

## **NURS 3200 Research & Nursing Informatics**

Semester Credit Hours: 2 sch Role of research in professional nursing practice including principles of research and critical utilization of research findings by application to evidence-based nursing practice. Core concepts of informatics, computer skills, and use of technology and informatics in clinical practice and data management. Ethical issues in research and confidentiality of patient information. Requires Nursing Advisor approval. Requires Nursing advisor approval. Prerequisite(s): Prerequisites: BIOL 1306/1106; BIOL 1307/1107; BIOL 3350/3151; BIOL 3352/3153; BIOL 2302/2121. Fall, Spring

## **NURS 3240 Mental Health Nursing**

Semester Credit Hours: 2 sch Evidence-based nursing concepts and theories to promote and restore mental health of individuals across the life span with mental health alterations and related physiological and psychological responses; clinical/critical reasoning and options for the safe, holistic care of persons of diverse cultures with altered mental health states including grief and loss. Requires Nursing Advisor approval. Corequisite(s): NURS 3241. Fall

## **NURS 3241 Mental Health Nursing Clinical**

Semester Credit Hours: 2 sch Application of evidence-based nursing practice and clinical/critical reasoning skills to provide holistic, safe, quality care for individuals of diverse cultures across the life span with chronic and acute mental health problems in a variety of healthcare settings. Corequisite(s): NURS 3240. Requires Nursing Advisor approval. Fall

## **NURS 3302 Transcultural Nursing**

Semester Credit Hours: 3 sch Knowledge of patients' cultural beliefs and backgrounds is assessing patients' health and illness. Presentation of skills to provide culturally competent care to diverse cultures including the Spanish speaking patient and other ethnic groups. Terminology and culturally sensitive skills used to communicate effectively concerning health planning, history taking, and discharge planning the reflect patients' cultural belief. Fall, Spring, Summer

## **NURS 3362 Theoretical and Evidenced Based Concepts of Professional Nursing Practice**

Semester Credit Hours: 3 sch Theoretical and Evidence Based Concepts introduces the student to the art and science of nursing and examines the foundational principles among historical background, theory, practice, and research in professional nursing. The student will develop an understanding of ethics, law, safety, quality care, critical thinking, evidence based practice and communication standards as they relate to nursing. Students will apply educational and self-care concepts to holistic patient centered care throughout the life span and recognize the importance of integrating those concepts into their lives and career as a professional nurse. Prerequisite(s): Admission into the nursing program. Fall

## **NURS 3366 Clinical Pharmacology**

Semester Credit Hours: 3 sch Introduction to pharmacology influences on quality and safe professional nursing practice, including disease processes, regulations, pharmacodynamics, pharmacokinetics, and healthcare access. Prerequisite(s): Admission to the nursing program. Fall

## **NURS 3368 Pathophysiology**

Semester Credit Hours: 3 sch Focus on the pathophysiologic responses that occur in the body related to health and illness across the lifespan, emphasis on principles of patient safety. Prerequisite(s): May be taken prior to entry into the nursing program. Fall, Spring

### **NURS 3370 Medical Surgical Nursing**

Semester Credit Hours: 3 sch Introduction to evidence-based safe, quality, holistic nursing practice addressing low-acuity alterations in chronic and/or acute health of adult population(s) Prerequisite(s): Successful completion of first semester Junior year. Spring

### **NURS 3371 Medical Surgical Nursing Clinical**

Semester Credit Hours: 3 sch Demonstration in clinical setting(s) of integration of evidence-based safe, quality, holistic nursing practice under the direct supervision of a registered professional nurse (RN) to address low-acuity alterations in chronic and/or acute health of adult population(s). Practice of ethical clinical reasoning, critical thinking, and professional accountability in the delivery of person-centered nursing. Prerequisite(s): Successful completion of first semester Junior year. Spring

### **NURS 3460 Evidenced Based Skills Assessment and Health Promotion**

Semester Credit Hours: 4 sch Familiarizes the student to the clinical skills and assessment techniques necessary to provide care to patients across the life span. This course introduces students to the application of basic nursing skills that support patients with common health problems and health care needs. The application of content will provide an evidenced based informative foundation for students entering the clinical setting. Prerequisite(s): Admission to the nursing program. Fall

### **NURS 3461 Concepts and Evidence Based Skills for Professional Clinical Practice**

Semester Credit Hours: 4 sch This course includes the application of basic nursing skills that support patients with common health problems and health care needs; communication skills with patients, caretakers and other health care professionals; performance of common nursing procedures incorporating safety measures, quality care, and infection control. Documentation of performance and outcomes will be addressed. Prerequisite(s): Admission into the nursing program. Fall

### **NURS 4120 Nursing Capstone**

Semester Credit Hours: 1 sch Synthesize concepts of ethical judgment evidence-based practice, person-centered care, professionalism, and teamwork based on the knowledge gained for collaboration of all nursing coursework. Facilitate the transition from student to graduate nurse. Spring

### **NURS 4195 Integrated Leadership Clinical**

Semester Credit Hours: 1 sch Observational nursing leadership experience opportunity with nursing leaders who practice collaborative leadership supporting excellence in healthcare delivery across disciplines in an acute care organization. Prerequisite(s): Successful completion of courses in Junior year and first semester of Senior year. Spring

### **NURS 4250 Nursing Research and Quality Improvement Science**

Semester Credit Hours: 2 sch Critical analysis of models of research and quality improvement science, appraisal of evidence-based literature and use of information technology to enhance the foundation for clinical decision making and data management to promote health outcomes associated with safety, cost, and clinical improvement. Application of ethical principles and quality science strategies to develop a plan to solve identified practice problems. Fall, Spring, Summer

### **NURS 4280 Women's Health and Obstetrical Nursing**

Semester Credit Hours: 2 sch Evidence-based nursing care of women and families over their life spans and during childbearing years with emphasis on health promotion and risk reduction. Clinical/critical reasoning to provide culturally congruent care for pregnant women and newborns in a variety of settings. Advocacy for patient/family preferences in care management. Prerequisite(s): Successful completion of courses in Junior year. Fall

### **NURS 4281 Family Health Clinical I**

Semester Credit Hours: 2 sch Application of evidence-based nursing care to men, families, and geriatric populations. To promote health for people of diverse cultures with chronic and acute biological and mental health problems in a variety of settings. Students engage in a safe holistic person-centered care delivery model using interviews and assessments designed to assist the students in describing advocacy options for the elderly and male populations by applying an ethical and culturally sensitive framework.

### **NURS 4282 Geriatric Health Nursing**

Semester Credit Hours: 2 sch Examine theories of aging including developmental tasks and holistic nursing assessments expected to identify benefits and risks associated with prescriptive interventions. Prerequisite(s): Successful completion of courses in Junior year. Fall

### **NURS 4283 Family Health Clinical II**

Semester Credit Hours: 2 sch Application of evidence-based nursing care to women, families, newborns, and children. To promote health for children of diverse cultures with chronic and acute biological and mental health problems in a variety of settings. Provide care to women prenatal, during delivery and postnatal care of the newborn. Application of clinical/critical reasoning for culturally congruent care of women and newborns in a variety of settings. Advocacy for patient preference in care management. Advocacy for parent/family preference in care management.

### **NURS 4284 Pediatric Health Nursing**

Semester Credit Hours: 2 sch Application of evidence-based nursing care and clinical/critical reasoning skills to promote health and to restore health for children of diverse cultures with chronic and acute biological and mental health problems in a variety of settings. Provide education and support to caregiver to ensure safe, quality care for child. Prerequisite(s): Successful completion of courses in Junior year. Fall

### **NURS 4286 Men's Health Nursing**

Semester Credit Hours: 2 sch This course introduces students to the concept of men's health and the gender gap in achieving health for men. It provides also an overview of health promotion and maintenance, disease prevention and management, and decision-making related to health care for men. It further provides the knowledge, skills, and attitudes needed to deliver holistic, patient-centered culturally congruent nursing care for men across the health-illness continuum. Prerequisite(s): Successful completion of Courses in Junior year. Fall

### **NURS 4290 Population Public Health**

Semester Credit Hours: 2 sch Analysis of formal and informal community systems/resources and health care delivery systems including public health, emphasis on cultural diversity and needs of individuals, families, communities, and populations. Community building through collaborative activities and community partners to develop and access resources to promote health roles, strategies, and resources for emergency management in the community. Prerequisite(s): Successful completion of courses in Junior year and Senior year first semester.

### **NURS 4291 Population Public Health Clinical**

Semester Credit Hours: 2 sch Performing assessment of formal and informal community systems/resources and health care delivery systems including public health, emphasis on cultural diversity and needs of individuals, families, communities, and populations. Community building through collaborative activities and community partners to develop and access resources to promote health roles, strategies, and resources for emergency management in the community. Prerequisite(s): Successful completion of courses in Junior year and Senior year first semester.

### **NURS 4292 Advanced Medical Surgical Nursing**

Semester Credit Hours: 2 sch Overview of evidence-based, safe quality, holistic, nursing practices focused on moderate to high acuity and/or complex multiple organ involvement in alterations of health of adult population(s) Prerequisite(s): Successful completion of courses in Junior year and Senior year first semester. Spring

### **NURS 4293 Transition to Practice Clinical**

Semester Credit Hours: 2 sch Demonstration in clinical settings of integration of evidence-based safe, quality holistic nursing practice focused on moderate to high acuity and/or complex multiple organ involvement in alterations of health of adult population(s) under the direct supervision of a registered professional nurse (RN). Practice of ethical clinical reasoning, critical thinking, and professional accountability in the delivery of person-centered nursing. Prerequisite(s): Successful completion of courses in Junior year and Senior year first semester.

### **NURS 4294 Leadership: Interprofessional Collaboration**

Semester Credit Hours: 2 sch Introduction to leadership as an interprofessional collaboration focused on the clinical staff (bedside) nurse's responsibilities in ensuring optimum, safe, quality, efficient and excellent health care delivery using team dynamics. Prerequisite(s): Successful completion of course in Junior year and Senior year first semester. Spring



### **NURS 4310 Social Determinants of Health**

Semester Credit Hours: 3 sch Analyze and evaluate the relationship between the domains of social determinants of health and health disparities, inequalities, health-related outcomes and patient satisfaction. Propose strategies and foster relationships through intentional collaborations across professions to enhance access to healthcare and information and quality of life by impacting Social Determinants of Health.

### **NURS 4340 Strategy and Analysis of Organizational Process**

Semester Credit Hours: 3 sch This course focuses on the role as a leader in complex healthcare organizations. The student examines theories and processes for conflict resolution, negotiation skills, operations management, and strategic planning across the continuum of care in healthcare organizations. Topics of study include informatics, legal issues, organizational management, and healthcare economics. The student will be prepared as a leader of change in the healthcare system to improve population health outcomes.

### **NURS 4341 Healthcare Leadership and Policy**

Semester Credit Hours: 3 sch Course overviews healthcare organizations in the United States and current and emerging concepts, trends, policies, and issues in healthcare. The course provides for analysis of relevant legislation and discussion of current issues policy research and healthcare system evaluation.

### **NURS 4342 Quality Improvement and Healthcare Systems**

Semester Credit Hours: 3 sch Students are introduced to competencies necessary to address elements of quality improvement and leadership's responsibilities related to continuous quality improvement, including data analysis for quality improvement, clinical practice guidelines, and future of healthcare to enhance the quality and minimize the risk of harm to patients and providers.

### **NURS 4343 Fiscal and Organizational Leadership**

Semester Credit Hours: 3 sch This course outlines the United States healthcare system through exploration of organization, finance, leadership, resources, and performance. The course is designed to explain the structure of the US healthcare sector, explore the role of healthcare leaders in meeting industry standards of care, and apply knowledge of healthcare workforce issues to solve challenges.

### **NURS 4344 Informatics and Innovation**

Semester Credit Hours: 3 sch In this course, students explore the changing technology environment and its potential impact on the delivery of quality, safe patient care. Students will integrate the knowledge of health information and data analysis to drive clinical decision-making and patient care outcomes. Overriding considerations will include: (a) technology's impact on workflow, (b) legal and ethical considerations associated with selection technology, and (c) the impact of technology on the changing role of the provider.

### **NURS 4350 Health Science Research Methods**

Semester Credit Hours: 3 sch Evidenced-based practice: course introduces the formal study of research methods, including literature search, hypothesis generation and testing, sampling theory, research design, data analysis and report-writing. The course provides for integration of basic research methods for analyzing research studies and incorporating current quality standards and evidence-based protocols into healthcare.

### **NURS 4420 Health Assessment For The Professional Nurse**

Semester Credit Hours: 4 sch Students integrate science and skills in pathophysiology, pharmacology, and nursing assessment, address physiological adaptations, health promotion and disease prevention across the lifespan to promote person-centered care that focuses on the individual with multiple complex contexts. The course helps the practicing nurse advance professional practice skills and develop increased ability in problem-solving and clinical reasoning.

### **NURS 4481 Family Health Clinical**

Semester Credit Hours: 4 sch Application of evidence-based nursing care to women, families, newborns, and children. To promote health and resort health fro children of diverse cultures with chronic and acute biological and mental health problems in a variety of settings. Provide care to women prenatal, during deliver and postnatal and care of the newborn. Application of clinical/critical reasoning for culturally congruent care for women and newborns in a variety of settings. Advocacy for patient preferences in care management. Advocacy for parent/family preferences in care management. Studies engage in a safe holistic person-centered care delivery model using interviews and assessments designed to assist the students in describing advocacy options for the elderly and male population by applying an ethical and culturally sensitive framework. Prerequisite(s): Successful completion of courses in Junior year. Fall

### **NURS 4610 Transformation to Nursing Leadership and Management**

Semester Credit Hours: 6 sch Role Transformation to BSN is designed to examine the transition of the Registered Nurse (RN) to the professional leadership role at the baccalaureate level. As the entry course for the Professional Component of the RN-to-BSN program, this course provides students with networking and mentoring opportunities with peers and faculty. An examination of evolving disciplinary nursing knowledge, historical foundations, and current issues regarding the scope and roles of the nurse leader shall be explored. The promotion of critical thinking and interpersonal communication skills critical to professional practice are assessed through writing-intensive assignments.

### **NURS 4611 Leadership Immersion and Capstone**

Semester Credit Hours: 6 sch This is the culminating scholarly experience in the health science program of study. Students will focus on synthesis and integration of complex concepts relevant to their scope of practice and leadership and management skills in complex organizational environments. Emphasis is placed on the application of leadership principles and self-reflection that fosters personal growth, health, and life long learning through an evidence-based capstone project.

## **Petroleum Engineering**

### **PENG 2101 Petroleum Fundamentals**

Semester Credit Hours: 1 sch A basic overview of the petroleum industry, covering exploration, leasing, drilling, production, enhanced recovery, transportation and refining. Fall

### **PENG 3101 Drilling fluids lab**

Semester Credit Hours: 1 sch Measurement and design of drilling fluids Corequisite(s): PENG 3301. Fall

### **PENG 3104 Reservoir Engineering I Lab**

Semester Credit Hours: 1 sch Measurement of fluid/rock properties, computer reservoir modeling. Corequisite(s): PENG 3304. Fall

### **PENG 3301 Drilling Engineering**

Semester Credit Hours: 3 sch Study of the drilling process, including basic rotary drilling, drilling fluids and hydraulics, drill string design, directional drilling, and well control. Prerequisite(s): ENGR 2302. Fall

### **PENG 3302 Reservoir Rock and Fluids Properties**

Semester Credit Hours: 3 sch Reservoir rock and fluids properties, interaction between rock and fluids, flow behavior in a reservoir. Prerequisite(s): CHEM 1311, PENG 2101, and MATH 2414. Spring

### **PENG 3304 Reservoir Engineering I**

Semester Credit Hours: 3 sch Reservoir engineering, hydrocarbon reserves, material balance, reserve estimates, water influx, introduction to Darcy's law and derivation of the diffusivity equation. Immiscible displacement of oil and gas, history matching. Introduction to well testing, decline curve analyses. Prerequisite(s): PENG 3302, MATH 3320. Fall

### **PENG 3305 Well Design**

Semester Credit Hours: 3 sch Well planning, drill string, casing, cementing and completions. Prerequisite(s): PENG 3301. Fall, Spring

### **PENG 3307 Formation Evaluation**

Semester Credit Hours: 3 sch Formation Evaluation: Open-hole and cased hole log analysis. Prerequisite(s): MATH 2415 and PENG 2101 Corequisite(s): PENG 3302 Spring

### **PENG 3326 Petroleum Resources Economics and Valuation**

Semester Credit Hours: 3 sch Economic aspects of hydrocarbon assets development and valuation under budgetary and time constraints. Application of engineering economics to the valuation of hydrocarbon assets, involving time value of money and risk analysis, to choose the most economical alternative while recognizing the impact of engineering solutions in a global, economic, environment, and societal context. Prerequisite(s): MATH 3301

### **PENG 3354 Petroleum Related Fluid Mechanics**

Semester Credit Hours: 3 sch Introduction to the basic concepts of fluid mechanics including the fundamental properties of fluids, fluid statics, and kinematics of fluid motion. Introducing flow in pipelines, surface facilities and oil and gas wells. The conservation of mass, energy, and momentum are introduced and applications to compressible and in-compressible fluids. Theory and applications of dimensional analysis, Newtonian and non-Newtonian fluids, Laminar and Turbulent flow and two-phase flow. Prerequisite(s): ENGR 2403 Spring

### **PENG 3375 Petroleum Fluids and Thermodynamics**

Semester Credit Hours: 3 sch Fundamental principles of classical engineering thermodynamics. Application of mass and energy balances. Entropy generation and the second law of thermodynamics. Fluid properties, phase behavior and equilibrium of single and multi-component hydrocarbon systems. Gas-liquid equilibria and other thermodynamic topics. Prerequisite(s): MATH 2414, PHYS 2325 and PENG 3304 Fall, Spring

### **PENG 4301 Production Engineering**

Semester Credit Hours: 3 sch Single and multi-phase flow, inflow performance, choke performance, artificial lift, and nodal analysis. Prerequisite(s): PENG 3101. Fall, Spring

### **PENG 4302 Well Testing**

Semester Credit Hours: 3 sch Steady state, pseudo steady state and transient well testing methods to determine well and reservoir parameters used in formation evaluation. Prerequisite(s): MATH 3320, PENG 3304. Fall, Spring

### **PENG 4303 Reservoir Description**

Semester Credit Hours: 3 sch Integration of reservoir, production and geological data for well performance optimization (senior project class). Prerequisite(s): Senior standing, PENG 4302. Fall, Spring

### **PENG 4304 Natural Gas Reservoir Engineering**

Semester Credit Hours: 3 sch Estimation of gas reserves for dry and gas condensate reservoirs. Evaluation of deliverability tests and subsequent development of flow equations. Strategies for gas field development. Prerequisite(s): PENG 3304. Fall, Spring

### **PENG 4305 Reservoir Engineering II**

Semester Credit Hours: 3 sch Secondary and tertiary oil recovery processes. Displacement theory as it applies to design and or behavior of flooding.. Prerequisite(s): PENG 3304. Fall

### **PENG 4306 Numerical Reservoir Simulation**

Semester Credit Hours: 3 sch Introduction to the theory and application of numerical simulation of hydrocarbon reservoirs. Formulation of equations and finite difference methods of approximation, models initialization, history matching and predictions. Prerequisite(s): PENG 3304 Spring

### **PENG 4307 Advanced Drilling Engineering**

Semester Credit Hours: 3 sch Casing and drill string design; wellbore hydraulics and optimization; directional and horizontal wellbores; torque and drag calculations; underbalance drilling operations; emerging drilling technologies. Prerequisite(s): PENG 3301 Fall

### **PENG 4308 Introduction to Unconventional Resources**

Semester Credit Hours: 3 sch Aspects of unconventional gas and oil reservoirs; economic significance; geologic occurrences and description; drilling, completion, and production practices; and reservoir management. Prerequisite(s): PENG 3304 Fall

### **PENG 4309 Petroleum Data Analytics**

Semester Credit Hours: 3 sch Introduction to analytics aspect of hydrocarbon assets development and field measurements handling in the digital hydrocarbon world. Application of analytics in exploration, drilling and production areas of the oil and gas industry. Carry out reservoir modeling using big data. Choose the optimum alternative while recognizing the impact of data analysis in global, economic, environmental, and societal context. Provide tools to extract patterns and trends that lead to the construction of prediction. Prerequisite(s): Senior standing. Spring

### **PENG 4410 Senior Design**

Semester Credit Hours: 4 sch Work on an extensive petroleum engineering project covering many areas. Prerequisite(s): Senior standing, PENG 4301. Fall, Spring

## **Petroleum Technology**

### **PTEC 3301 Petroleum Fundamentals**

Semester Credit Hours: 3 sch An introduction to petroleum industry technology, equipment usage, and operating procedures. Spring

### **PTEC 3302 Petroleum Fluids and Natural Gas Technology**

Semester Credit Hours: 2 sch Study of the basics of physical and chemical makeup of hydrocarbon mixtures, how the mixtures are affected by temperature and pressure, and the techniques for accurate measurement of petroleum products (based on API Petroleum Measurement Standards). Prerequisite(s): MATH 1314 Fall

### **PTEC 3304 Drilling Technology**

Semester Credit Hours: 3 sch An introduction to the drilling process, including drilling rigs, bits, drilling mud, air and gas drilling, casing and tubing, cementing and well control. Prerequisite(s): MATH 1314 Summer

### **PTEC 4301 Petroleum Production Technology**

Semester Credit Hours: 3 sch An introduction to the production of petroleum, including completion, artificial lift, workovers and stimulation. Prerequisite(s): PTEC 3304 or equivalent, or consent of instructor. Summer

### **PTEC 4302 Pipeline Technology**

Semester Credit Hours: 3 sch An introduction to pipeline technology, corrosion, and hydraulics. Prerequisite(s): PTEC 3301 or consent of instructor. Spring

### **PTEC 4304 Wireline, Mud Logging, and Core Analysis**

Semester Credit Hours: 3 sch An introduction to open and cased hole well logging, mud logging and coring. Prerequisite(s): PTEC 3301 or consent of instructor.

## **Philosophy**

### **PHIL 2300 Introduction to Philosophy**

Semester Credit Hours: 3 sch This is an introduction to philosophical thinkers, ideas, and methods and fulfills core course requirements. The course addresses the basics of informal and formal logic - briefly, epistemology (the first philosophy according to Descartes) or theories of knowledge, metaphysics, questions of religion, and ethics (distinguished clearly from morals). Philosophy deals with the "big questions" and is the foundation of all academic disciplines. Fall, Spring

# Physics

## **PHYS 1101 College Physics I Laboratory**

Semester Credit Hours: 1 sch Experiments in Newtonian mechanics, fluid mechanics, and thermodynamics. Corequisite(s): PHYS 1301. Fall

## **PHYS 1102 College Physics II Laboratory**

Semester Credit Hours: 1 sch Experiments in oscillatory motion, electricity, magnetism, nature of light, optics, and quantum theory. Corequisite(s): PHYS 1302. Spring

## **PHYS 1301 College Physics I**

Semester Credit Hours: 3 sch Basic concepts of Newtonian mechanics, fluid mechanics, and thermodynamics using algebra and trigonometry. MATH 2412. Corequisite(s): PHYS 1101. Fall

## **PHYS 1302 College Physics II**

Semester Credit Hours: 3 sch Basic concepts of oscillatory motion, electricity, magnetism, nature of light, optics, relativity, and quantum theory using algebra and trigonometry. Prerequisite(s): PHYS 1301/PHYS 1101. Corequisite(s): PHYS 1102. Spring

## **PHYS 2125 University Physics I Laboratory**

Semester Credit Hours: 1 sch Experiments in Newtonian mechanics, fluid mechanics, and thermodynamics. Corequisite(s): PHYS 2325. Fall, Spring

## **PHYS 2126 University Physics II Laboratory**

Semester Credit Hours: 1 sch Experiments in oscillatory motion, electricity, magnetism, nature of light, optics, and quantum theory. Corequisite(s): PHYS 2326. Fall, Spring, Summer

## **PHYS 2325 University Physics I**

Semester Credit Hours: 3 sch Basic concepts of Newtonian mechanics, fluid mechanics, and thermodynamics using calculus. Prerequisite(s): MATH 2413. Corequisite(s): PHYS 2125. Fall, Spring

## **PHYS 2326 University Physics II**

Semester Credit Hours: 3 sch Basic concepts of oscillatory motion, electricity, magnetism, nature of light, optics, relativity, and quantum theory using calculus. Prerequisite(s): PHYS 2325/PHYS 2125. Corequisite(s): PHYS 2126. Fall, Spring, Summer

## **PHYS 3310 Modern Physics**

Semester Credit Hours: 3 sch An introductory course in modern physics: relativity, quantum mechanics, applications of quantum mechanics, nuclear physics (nuclear binding energy, nuclear reactions and energy, radioactive decay and radiation, and nucleosynthesis), solid state physics, particle physics, and cosmology. Prerequisite(s): MATH 2414 and PHYS 2326. Fall

## **PHYS 3695 Introduction to Physics Research**

Semester Credit Hours: 1-3 sch Active participation in a research project conducted under the mentor-ship of a member of the Physics faculty. The choice of faculty member is selected by the student. Prerequisite(s): Consultation with physics faculty and permission of research advisor. Spring

## **PHYS 4324 Computational Methods for Scientists and Engineers**

Semester Credit Hours: 3 sch In introductory course in mathematical modeling and computational techniques to solve real-world problems. Topics include computational data analysis, programming, numerical methods, and computer modeling. Prerequisite(s): MATH 2414 and PHYS 2326 a Spring

## **PHYS 4326 Sensors & Measurement**

Semester Credit Hours: 3 sch A course focused on the measurement process and how measurements are made. Students will construct sensors and then use these sensors as a part of experiments designed and conducted by students. Prerequisite(s): MATH 2414 and PHYS 2326

### **PHYS 4389 Special Topics in Physics**

Semester Credit Hours: 3 sch These are undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog and may be acceptable for graduate credit.

## **Political Science**

### **PLSC 2305 American National Politics**

Semester Credit Hours: 3 sch An examination of American national political institutions and processes. Satisfies state requirement in U.S. government. Fall, Spring, Summer

### **PLSC 2306 State and Local Politics**

Semester Credit Hours: 3 sch An examination of state and local political institutions and processes. Satisfies state requirement in Texas government. Fall, Spring, Summer

### **PLSC 3301 Research Methods for Political Science**

Semester Credit Hours: 3 sch An introduction to the research process. Focus on formulating hypotheses, the process of data acquisition, basic methodology, literature reviews, and research proposals. Prerequisite(s): Successful completion of PLSC 2305 and PLSC 2306. Fall

### **PLSC 3302 Statistics for Political Science**

Semester Credit Hours: 3 sch Focus on conducting political analyses. Course includes basic components of correlation and linear regression, the basic components of multiple regression, and instruction in writing empirical research papers. Prerequisite(s): Successful completion of PLSC 3301. Spring

### **PLSC 3321 Comparative Politics**

Semester Credit Hours: 3 sch A comparative examination of the political systems of selected economically developed nations. Summer

### **PLSC 3330 Judicial Politics**

Semester Credit Hours: 3 sch An examination of the U.S. judicial system, focusing on the role of law and courts in society, judicial system structures and processes, and judicial policymaking. Fall

### **PLSC 4323 Japanese Politics**

Semester Credit Hours: 3 sch An examination of Japanese history, political institutions, and political processes. Fall

### **PLSC 4325 Latin American Politics**

Semester Credit Hours: 3 sch An examination of Latin America history, political institutions, and political processes. Spring

### **PLSC 4327 International Relations**

Semester Credit Hours: 3 sch An introduction to the processes, theories, and institutions within international relations. Summer

### **PLSC 4335 Constitutional Law: Governmental Powers**

Semester Credit Hours: 3 sch An examination of American constitutional development focusing on U. S. Supreme Court decisions in the areas of governmental powers, federalism, and economic regulation. Fall

### **PLSC 4336 Constitutional Law: Civil Liberties**

Semester Credit Hours: 3 sch An examination of American constitutional development, focusing on U.S. Supreme Court decisions regarding freedom of speech and press, church and state, the right to privacy, and class-based discrimination. Spring

### **PLSC 4341 Environmental Policy**

Semester Credit Hours: 3 sch An examination of contemporary issues in environmental policy. Spring

### **PLSC 4345 Public Policy**

Semester Credit Hours: 3 sch An examination of the processes, theories and institutions of public policy making in the U.S. Specific policies include: economic policy, environmental policy, education policy and crime policy.

### **PLSC 4351 Political Theory**

Semester Credit Hours: 3 sch A topical examination of the enduring issues in western political thought. Consideration will be given to the nature of citizenship, the function of the state, the sources and structure of authority in society, the magnitude of states, and the external relations of states. Fall

### **PLSC 4353 Congressional Politics**

Semester Credit Hours: 3 sch An examination of the U.S. Congress. Topics include congressional elections, constituency relations, institutional structures and processes, and policymaking roles. Spring

### **PLSC 4354 Presidential Politics**

Semester Credit Hours: 3 sch An examination of the presidency in the U.S. political system. Topics include presidential elections, public politics, institutional structures and processes, and policymaking roles. Fall

### **PLSC 4355 Elections and Voting Behavior**

Semester Credit Hours: 3 sch An examination of elections, campaigns, and voting behavior. Fall

### **PLSC 4357 American West**

Semester Credit Hours: 3 sch An examination of the interplay among the politics, history, and myths of the American West. Fall

### **PLSC 4389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. May be acceptable for graduate credit. Fall

### **PLSC 4391 Contract Study**

Semester Credit Hours: 3 sch Advanced independent study or research (equivalent to senior level course). These courses will not count for graduate credit. Fall, Spring

### **PLSC 4392 Internship**

Semester Credit Hours: 3 sch A supervised field and academic experience in a political or public service setting. Prerequisite(s): 12 hours Political Science credits and consent of the instructor. Spring

## **Psychology**

### **PSYC 1301 Introduction to Psychology**

Semester Credit Hours: 3 sch Foundation for the understanding of basic psychological principles affecting human behavior. This course is a prerequisite to all other courses in psychology. Fall, Spring, Summer

### **PSYC 3104 Experimental Psychology Lab**

Semester Credit Hours: 1 sch This is a research and statistics course that should be taken concurrently with PSYC 3304. Students will collect and analyze data using SPSS. Corequisite(s): PSYC 3304 Fall, Spring CHLD 3104

### **PSYC 3301 Introductory Statistics**

Semester Credit Hours: 3 sch Measures of central tendency, variability, correlation and hypotheses testing, with emphasis on the application of statistical methods to research in the behavioral sciences and education. Prerequisite(s): must have fulfilled general education mathematics requirement. Fall, Spring, Summer

### **PSYC 3303 Principles of Learning**

Semester Credit Hours: 3 sch Major research results of classical and instrumental conditioning in animals and humans. Verbal learning, concept learning, problem solving and memory in humans will also be reviewed. Prerequisite(s): PSYC 1301. Fall, Spring

### **PSYC 3304 Experimental Psychology**

Semester Credit Hours: 3 sch Introduction to the planning and execution of psychological research. Prerequisite(s): PSYC 1301, PSYC 3301 Corequisite(s): PSYC 3104 Fall, Spring

### **PSYC 3311 Social Psychology**

Semester Credit Hours: 3 sch Interrelationships between individuals and their social environment, considering social influences upon motivation, perception, behavior and development, and change of attitudes and opinion. Prerequisite(s): PSYC 1301. Spring

### **PSYC 3321 Abnormal Psychology**

Semester Credit Hours: 3 sch Variables involved in the development, maintenance and treatment of a variety of behavior disorders. Prerequisite(s): PSYC 1301. Fall, Spring, Summer

### **PSYC 3322 Theories of Personality**

Semester Credit Hours: 3 sch A survey of the theoretical views of Freud, Jung, Rogers, Skinner and various contemporary writers. Prerequisite(s): PSYC 1301. Spring

### **PSYC 3341 Child/Adolescent Psychology**

Semester Credit Hours: 3 sch Developmental aspects of physical, mental, social and emotional growth from prenatal through adolescent periods. Recommended: PSYC 1301. Spring

### **PSYC 3344 Life-Span Psychology**

Semester Credit Hours: 3 sch Examination of theories and research on biological, cognitive, social, emotional and personality factors that affect individuals from infancy through old age. Prerequisite(s): PSYC 1301. Fall, Spring, Summer

### **PSYC 3345 Child Abuse and Neglect**

Semester Credit Hours: 3 sch The overall objective of this course is help students develop an understanding of the various forms of child abuse, identify the underlying causes of this multifaceted problem, and to appropriately identify the types of serves that will benefit maltreated children and their families. The nature and impact of child maltreatment, the ways in which society prevents or responds to it, and the system of responses to child maltreatment are addressed. The course will also cover the importance of promoting social and economic justice for the children and ways to empower children and their parents though the helping process.

### **PSYC 3350 Positive Psychology**

Semester Credit Hours: 3 sch This course will focus on psychological strengths and areas of personal growth among individuals, such as love, optimism, and self-efficacy. Spring

### **PSYC 3386 Human Sexuality**

Semester Credit Hours: 3 sch This course is designed to study the social nature of sexual expression. It examines the concepts that help frame questions about a wide range of sexual behaviors, attitudes and ideals. Fall

### **PSYC 3391 Contract Study**

Semester Credit Hours: 3 sch Students who are pursuing independent study or research as described in the contract study format. Spring

### **PSYC 4302 History and Systems of Psychology**

Semester Credit Hours: 3 sch Major factors affecting the development of psychology as science of behavior, with emphasis upon philosophical roots of major psychological concepts. Prerequisite(s): PSYC 1301. Fall

### **PSYC 4304 Physiological Psychology**

Semester Credit Hours: 3 sch Neurophysiology and neuroanatomy. Variables that contribute to behavioral effects in the areas of sensation, perception, motivation and learning. Prerequisite(s): PSYC 1301. Fall, Spring



### **PSYC 4305 Drugs and Behavior**

Semester Credit Hours: 3 sch Pharmacologic basis of psychotropic drugs and their associated abuses. Theories of cause and treatment of abusers are reviewed. Prerequisite(s): PSYC 1301. Summer

### **PSYC 4306 Industrial and Organizational Psychology**

Semester Credit Hours: 3 sch Applications of psychological principles to industrial problems such as personnel selection and appraisal, employee motivation and satisfaction, and the influence of organizations on behavior. Fall, Summer

### **PSYC 4307 Health Psychology**

Semester Credit Hours: 3 sch Examination of the role of behavioral science knowledge and techniques in understanding, assessing, testing and preventing medical-psychological and social problems. Prerequisite(s): PSYC 1301 or approval of Instructor. Fall

### **PSYC 4308 Introduction to Counseling**

Semester Credit Hours: 3 sch An introduction to counseling skills and practices in psychology. Prerequisite(s): PSYC 1301. Spring

### **PSYC 4311 Cognitive Psychology**

Semester Credit Hours: 3 sch Research and theories of cognitive processes, including concept learning, problem solving, memory, attention, and language development and maintenance. Prerequisite(s): PSYC 1301. Spring

### **PSYC 4312 Sensation and Perception**

Semester Credit Hours: 3 sch Study of the structures and functions of the sensory modalities within the environmental context, emphasizing perceptual issues and psychophysics. Prerequisite(s): PSYC 1301. Fall

### **PSYC 4320 Psychology of Sport**

Semester Credit Hours: 3 sch Concepts in psychology as applied to an individual's involvement in sport and other forms of competitive physical activity. Emphasis on motivation, stress management, personality theory, performance enhancement and group dynamics. Fall

### **PSYC 4341 The Exceptional Child**

Semester Credit Hours: 3 sch This course presents the preservice teacher with a general overview of exceptionalities of children and youth to include characteristics, etiology, and educational programs and practices. Topics will also include historical and legislative events affecting special education and an overview of the special education process including referral, screening, assessment, and educational planning. A field experience is included. Prerequisite or Corequisite: PSYC 3341. Fall, Spring, Summer

### **PSYC 4345 Language Development In the Young Child**

Semester Credit Hours: 3 sch This course studies the nature of language and the acquisition of language by the young child. Topics included are: (1) language structure, (2) sequence and process of the acquisition of language, (3) cognitive aspects of language acquisition and implementation, (4) social aspects of language in childhood, and (5) language variation. Prerequisite(s): PSYC 3341 or permission of instructor. Fall, Spring

### **PSYC 4350 Psychology of Exercise**

Semester Credit Hours: 3 sch Concepts in psychology applied to an individual's involvement in exercise. Emphasis on theoretical models and methods for assessing exercise adherence. Investigation of methods and strategies for behavior intervention and program development to promote adherence to exercise programs.

### **PSYC 4351 Tests and Measurements**

Semester Credit Hours: 3 sch Major personality and intelligence tests, emphasis upon their construction, administration, scoring and interpretation. Prerequisite(s): PSYC 1301, PSYC 3301. Fall

### **PSYC 4354 Animal Behavior**

Semester Credit Hours: 3 sch Overview of the ecological, evolutionary, and genetic aspects of animal behavior. Spring Cross-listed with BIOL 4354

### **PSYC 4355 Psychology of Injury**

Semester Credit Hours: 3 sch Identification of the psychosocial factors related to the prevention of and recovery from athletic injuries and the development of counseling and referral skills needed when working with athletes and others in the sports medicine environment. Fall

### **PSYC 4360 Psychology of Religion**

Semester Credit Hours: 3 sch This course surveys central issues in the psychology of religion and spirituality with an emphasis on psychotherapy, measurement, and research methods. It covers the foundations and history of the psychology of religion, religion through the developmental lens, the construction, definition, and expression of religion and spirituality, current methods in research and measurement, multicultural issues, clinical competency, and applied areas. Summer

### **PSYC 4375 Psychology and Law**

Semester Credit Hours: 3 sch Examines psychological theories relevant to the law and other forensic activities and their use in society. Prerequisite(s): PSYC 1301. Fall

### **PSYC 4381 Gender Studies**

Semester Credit Hours: 3 sch Survey of critical issues in social relations, mental health, and legal matters involving gender. Includes analysis of innate and environmental determinants of gender differences. Prerequisite(s): PSYC 1301. Fall, Spring

### **PSYC 4389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. May be acceptable for graduate credit. Fall

### **PSYC 4393 Senior Seminar**

Semester Credit Hours: 3 sch A capstone course that provides an in-depth examination of a contemporary issue in psychology. Course topics (i.e., social, clinical, developmental, cognitive, or controversial topics in psychology) and assignments may vary. This course is writing intensive. The seminar format requires that students make regular and substantial contributions to the course, analyze, evaluate, and integrate the professional literature, and design and justify a research study. Prerequisite(s): PSYC 3304 Fall, Spring, Summer

### **PSYC 4394 Senior Honors Thesis**

Semester Credit Hours: 3 sch Students interested in graduate studies in psychology, or interested in testing specific research questions, will develop hypotheses, design, collect, analyze and disseminate research under the supervision of a faculty mentor. Students are encouraged to present their work at the annual undergraduate research symposium. Prerequisite(s): Student must earn an A or B in PSYC 3304 and approval of faculty mentor. Fall, Spring

## **Public Health**

### **PUBH 1301 Essentials of Public Health**

Semester Credit Hours: 3 sch Public health is often confused with healthcare for the indigent. However, the public health system's focus is on communities rather than individuals. This course will cover basic public health functions and principles as well as historical context, the core disciplines of public health, essential functions that every public health system should apply, and health communications. Fall, Spring

### **PUBH 2301 Essentials of Global Health**

Semester Credit Hours: 3 sch The course will introduce students to the main concepts of the public health field and the critical links between global health and social and economic development. Students will get an overview of the determinants of health, and how health status is measured. Students will also review the burden of disease, risk factors, and key measures to address the burden of disease in cost-effective ways. The course will cover key concepts and frameworks by be very practical in orientation. Spring

### **PUBH 2330 Essentials of Health Behavior and Health Promotion**

Semester Credit Hours: 3 sch This course focuses on how to address health issues facing communities by making changes at the individual, community, organizational and governmental levels. We will examine methods and theories to promote healthful changes using real life examples. Specifically we will cover individual change theories, community development strategies, and Diffusion of Innovations Theory. Fall

### **PUBH 3330 Essentials of Health Policy and Law**

Semester Credit Hours: 3 sch This course focuses on the policies and laws that affect individuals and communities and how U.S. policy and legal systems work to support our health and well being. This is a survey course in U.S. health policy and law. It begins by describing the basic machinery of policy making and legal process that underpin the individual health care and public health systems and then turns to an exploration of many of the fundamental problems and contemporary issues in health policy and law. Spring

### **PUBH 4310 Essentials of Environmental Health**

Semester Credit Hours: 3 sch This course focus on key areas of environmental health and crucial role of the environment in the health of the planet and all living creatures. Areas of learning will include environmental disease (microbial agents, ionizing and non-ionizing radiation), and applications and domains of environmental health (water and air quality, food safety, waste disposal, and occupational health).

## **Social Work**

### **SOWK 2320 Social Welfare Policies and Issues**

Semester Credit Hours: 3 sch Examination of the development of policies, the social and political influences on their implementation, and the effects and impact of policy on social work practice in a variety of key areas and practice settings. Prerequisite or Corequisite: PLSC 2305 and PLSC 2306, SOWK 2361. Fall

### **SOWK 2361 Introduction to Social Work**

Semester Credit Hours: 3 sch Introduction to the profession of social work and social work roles in the social welfare system, with emphasis on the mission, philosophy, and values of the profession. This course also introduces students to the social welfare institutions in the United States and their historical foundations. Fall, Spring

### **SOWK 3320 Social Policy Analysis**

Semester Credit Hours: 3 sch An analysis of current social welfare policies on the local, state, and federal levels, and various elements of welfare programs and entitlements. The course will cover a range of critiques of social welfare policy and reform proposals. A framework for policy analysis/evaluation and strategies for influencing policy development and change will be studied. Prerequisite(s): SOWK 2320. Spring

### **SOWK 3324 Ethics & Values in Social Work**

Semester Credit Hours: 3 sch This course will provide an intensive introduction to the values upon which social work practice is based, and the ethical guidelines which operationalize those values and to which social workers are held accountable. The NASW Code of Ethics will be covered in detail and provide the background for critical thinking and ethical reasoning regarding the inevitable value conflicts and ethical dilemmas social workers face. Prerequisite or Corequisite: SOWK 2361. Spring

### **SOWK 3330 Introduction to Social Work Research**

Semester Credit Hours: 3 sch This course will provide students with a knowledge base and skills focused on social welfare problems to evaluate one's practice, conduct applied research and evaluation. Students will learn both quantitative and qualitative research methods, data analysis, and the use of statistics in social work research and practice. Students will broadly examine the questions regarding the place of scientific inquiry in social work practice and more specific aspects of research design. Theoretical constructs for conducting culturally sensitive, quantitative/qualitative research among diverse and regional populations. Prerequisite(s): PSYC 3301 or SOCI 3317.

### **SOWK 3340 Human Behavior in the Social Environment**

Semester Credit Hours: 3 sch This course examines the dynamics of human behavior and the significance of the intersections between people and their environments. Students will learn and apply a variety of social work theories to the exploration of the inner lives and psychological functioning of children and adults and to the complex interactions between person and context. Theories will include the Person-in-Environment (PIE) perspective, the strengths perspective, systems theory, and the ecological perspective, among others. Underlying the course will be an examination of the interrelationships among social institutions, social structure and social processes. Prerequisite(s): SOWK 2361 Prerequisite or Corequisite: SOWK 2361 Introduction to Social Work. Fall, Spring

### **SOWK 3345 Child Abuse and Neglect**

Semester Credit Hours: 3 sch The overall objective of this course is help students develop an understanding of the various forms of child abuse, identify the underlying causes of this multifaceted problem, and to appropriately identify the types of services that will benefit maltreated children and their families. The nature and impact of child maltreatment, the ways in which society prevents or responds to it, and the system of response to child maltreatment are addressed. The course will also cover the importance of promoting social and economic justice for children and ways to empower children and their parents through the helping process. Fall, Spring, Summer

### **SOWK 3346 Economics of Social Issues**

Semester Credit Hours: 3 sch This course is designed to provide students with a conceptual understanding of those economic theories and constructs most commonly used in putting forth policy positions. Particular emphasis is placed on the economics of labor, poverty, health care, and education, and issues of inequality of distribution of wealth and income. This is a survey course intended to give students the opportunity to develop a working economic vocabulary and a generalist understanding of the role of economics in social work practice, particularly with respect to social welfare policy. Spring

### **SOWK 3350 Social Justice**

Semester Credit Hours: 3 sch This course is designed to explore the principles that have shaped America, and to weigh them against the reality of American life. Specifically, how have the values of justice, democracy, liberty, and equality been understood, and to what extent have they been fulfilled in contemporary American society? These questions will be pursued from a historical, philosophical, and social science perspective in order to provide students with a broad framework for analyzing whether we have created a society that is consistent with these four core American principles. A special emphasis is placed upon the role of social justice in social work. Prerequisite(s): SOWK 2361. Prerequisite or Corequisite: SOWK 3346. Spring

### **SOWK 3355 Social Work Practice with Individuals and Families**

Semester Credit Hours: 3 sch This first of three generalist practice courses introduces the student to social work processes, concepts, and theories relevant to generalist social work practice with individuals and families. The course will emphasize general practice skills and the professional relationship. Specific attention is paid to the roles of generalist social work. Prerequisite or Corequisite: SOWK 3340. For Social Work majors only. Spring

### **SOWK 3356 Social Work Practice with Groups**

Semester Credit Hours: 3 sch This social work practice course introduces students to theories of group development and group dynamics, and emphasizes the development of effective group work skills. The focus is on the knowledge and skills needed to work effectively with task, support, and self-help groups. Prerequisite(s): SOWK 3340. For Social Work majors only. Fall

### **SOWK 3360 Cultural Diversity**

Semester Credit Hours: 3 sch This course is designed to increase students' awareness, knowledge, and understanding of issues related to cultural diversity, human rights, and social justice. The topics of this course include developing a framework rooted in research and NASW code of ethics for engaging diversity and differences in social work practice and advancing human rights and social justice. Students will examine cultural identity and the intersectionality of race and ethnicity along with other factors, theories of oppression and culturally grounded methods of social work practice. Fall

### **SOWK 4280 Field Practicum I Seminar**

Semester Credit Hours: 2 sch A capstone seminar focused on the integration of classroom theory and knowledge with actual social work practice, based on the student's filed placement experiences. Prerequisite(s): SOWK 3355, SOWK 3324. Corequisite(s): SOWK 4480. Fall

### **SOWK 4281 Field Practicum II Seminar**

Semester Credit Hours: 2 sch Continuation of SOWK 4280 through the second semester of field placement. Integration of theory and practice on the basis of field practicum experiences. Prerequisite(s): SOWK 4480 and SOWK 4280. Corequisite(s): SOWK 4481. Spring

### **SOWK 4305 Drugs and Behavior**

Semester Credit Hours: 3 sch Pharmacologic basis of psychotropic drugs and their associated abuses. Theories of cause and treatment of abusers are reviewed. Prerequisite(s): Junior standing, PSYC 1301 and SOCI 1301. Summer [Cross-listed with PSYC 4305, Drugs and Behavior]

### **SOWK 4340 Death, Dying and Bereavement**

Semester Credit Hours: 3 sch This course offers a broad overview of the issues and circumstances that describe death, loss, and dying in or society. Topics include attitudes toward and preparation for death; the care of terminally ill patients; funeral rituals; burial, mourning, and grief practices; suicide and euthanasia. Readings and classroom activities will be supplemented by students' self-exploration and writing on feelings, attitudes, beliefs about death. Fall

### **SOWK 4370 Social Work Practice with Organizations and Communities**

Semester Credit Hours: 3 sch A social work practice course designed to acquaint students with the theory and knowledge necessary for generalist social work practice with organizations and communities, with a focus on developing skills for effecting macro-level change. Prerequisite(s): SOWK 3340, or permission of the instructor. For Social Work majors only. Fall

### **SOWK 4480 Field Practicum I**

Semester Credit Hours: 4 sch This is the first of two field courses in a supervised community social service agency consisting of a minimum of 240 hours (16 hours per week for 15 weeks of the semester). A weekly seminar (SOWK 4280) accompanies this course which enables the student to integrate and apply classroom learning (theory and practice) in the field setting. Prerequisite(s): Formal admission to field placement, SOWK 3340, SOWK 3355, and SOWK 3356. Corequisite(s): SOWK 4280. Fall

### **SOWK 4481 Field Practicum II**

Semester Credit Hours: 4 sch The second course of the field learning experience in a community social service agency consisting of a minimum 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 the field setting. SOWK 4480/SOWK 4280. Course fee required. Corequisite(s): SOWK 4281. Spring

## **Sociology**

### **SOCI 1301 Introduction to Sociology**

Semester Credit Hours: 3 sch Students are introduced to the basic concepts and theories used to study the nature of social processes and the structure of society. Fall, Spring, Summer

### **SOCI 3317 Introductory Statistics**

Semester Credit Hours: 3 sch Measures of central tendency and dispersion, elementary probability theory, the binomial and chi-square distribution, tests of hypotheses and parameter estimation and simple correlation and regression. Emphasis is on the application of statistical methods to research in the social sciences. Prerequisite(s): must have fulfilled first general education mathematics and COSC 1335 or permission of instructor. Fall, Spring

### **SOCI 3327 Sociological Theory**

Semester Credit Hours: 3 sch This course involves the study of the development of sociological thought and perspectives through the examination of the ideas of classical and contemporary theorists; these may include Marx, Durkheim, Du Bois, Martineau, Parsons, Gramsci, or Lukacs among others. Substantive theories of social organization are examined. Prerequisite(s): SOCI 1301. Summer

### **SOCI 3347 Sociology of Work**

Semester Credit Hours: 3 sch Analyzes dramatic changes occurring in the work lives of Americans and considers the future of American workers within the global economy. Explores emerging labor markets and technology in shaping contemporary American work settings. Prerequisite(s): SOCI 1301. Fall

### **SOCI 3350 Social Deviance**

Semester Credit Hours: 3 sch This course focuses on the study of societal definitions and reactions to deviant acts. These often arise in relationship to ethnicity, social class, race, gender and age within legal institutions. Theories of deviance and special case studies are examined. Prerequisite(s): SOCI 1301. Fall

### **SOCI 3351 Music in Society**

Semester Credit Hours: 3 sch Music in Society is a multicultural course that explores local, national, and global perspectives on the importance of music in performance art and culture, religion and spirituality, health and healing, politics, and the economy. Students will explore how music and society are transformed by the beliefs, norms, values, and ideas from music in history and music today. Prerequisite(s): SOCI 1301 Fall

### **SOCI 3389 Multi Listing Course**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once, will be offered infrequently or which are being developed before a regular listing in the catalog. Spring

### **SOCI 3391 Contract Study**

Semester Credit Hours: 3 sch Students who are pursuing independent study or research as described in the contract study format.

### **SOCI 4304 Virtual Reality**

Semester Credit Hours: 3 sch History, Culture, and social dynamics of the phenomenon of "virtual worlds," and their influences on contemporary culture and society. Taught in Spanish. Also taught in English, but students and only take one of HUMA 4301 or HUMA 4304 /SPAN 4304 / SOCI 4304 for credit.

### **SOCI 4316 Energy and Society**

Semester Credit Hours: 3 sch This course will consider the social consequences of the economic and environmental impact of energy choices in the U.S. and globally and how they shape societal norms and values. It will develop a critical understanding of the social attitudes, norms, values and behaviors toward energy consumption. Prerequisite(s): SOCI 1301. Summer

### **SOCI 4317 Women's Studies**

Semester Credit Hours: 3 sch This course introduces students to the range of ways in which societies are organized according to gender. It critically examines and analyzes the complex and multiple questions related to women's lives taking into consideration social, economic, political, psychological and historical realities. To be able to achieve a holistic analysis, men's experiences are fully integrated in the exploration of issues. Prerequisite(s): SOCI 1301. Fall

### **SOCI 4320 Social Stratification**

Semester Credit Hours: 3 sch Focuses on theories of social inequality as applied to the exercise of power and large-scale social control. Issues of class, race and gender and other inequalities are considered in the U.S. and globally. Prerequisite(s): SOCI 1301. Spring

### **SOCI 4324 Political Sociology**

Semester Credit Hours: 3 sch Relationship between political and social structures with emphasis on the concepts of power, ideology, elites, class, and politics Prerequisite(s): SOCI 1301. Fall

### **SOCI 4351 Contemporary Social Problems**

Semester Credit Hours: 3 sch Applying sociological approaches to major contemporary social problems and their causes and their consequences. Topics may include ISIS, Syrian Refugees, Bass Regime, terrorist organizations, world population and global inequality, threats to the environment, demographic changes in the United States, including the health care system and national security in the 21st. century. Prerequisite(s): SOCI 1301 Spring

### **SOCI 4352 Culture and Society**

Semester Credit Hours: 3 sch What is the meaning of culture? How is it defined? Is it static? Is it real? We will visit the topics in the Sociology of Culture. To what extent do culture undergo changes? In this course, we build up deep understanding about cultural variation. Prerequisite(s): SOCI 1301 Fall

### **SOCI 4353 Art in Community**

Semester Credit Hours: 3 sch This course is a multidisciplinary analysis of art from a sociological perspective. Cultural identity and understanding will be studied through analysis of art in community, architecture, performance art, visual art, and contemporary art. Prerequisite(s): SOCI 1301 Fall, Spring

### **SOCI 4362 Sociology of Health and Illness**

Semester Credit Hours: 3 sch Social and cultural factors associated with the definition, occurrence, and experience of health and illness. An examination of the social determinants that affect the etiology and distribution of illness and the social organization of the medical profession and the hospital. Prerequisite(s): SOCI 1301. Spring

### **SOCI 4370 Family Dysfunction and Substance Abuse**

Semester Credit Hours: 3 sch The role of substance abuse in family violence, child rearing and marital discord. Various ways of intervening to moderate the effects of substance abuse in families will be discussed. Prerequisite(s): SOCI 1301. Spring

### **SOCI 4389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once or will be offered infrequently or which are being developed before a regular listing in the catalog. May be acceptable for graduate credit. Fall, Spring

### **SOCI 4391 Contract Study**

Semester Credit Hours: 3 sch Advanced independent study or research (equivalent to senior-level course). Prerequisite(s): Consent of the Instructor. These courses will not count for graduate credit. Spring

### **SOCI 4394 Independent Research in Sociology**

Semester Credit Hours: 3 sch Study and research under supervision of a member of the sociology faculty. Students wishing to enroll should prepare a short plan for this coursework and present it to the instructor at the beginning of the semester. Summer

### **SOCI 4399 Senior Research Seminar**

Semester Credit Hours: 3 sch A scientific research study under the supervision of a member of the sociology faculty. The integration of theory and research is emphasized through basic or applied social research. Prerequisite(s): senior standing, SOCI 3317 and SOCI 4403. Fall, Spring, Summer

### **SOCI 4403 Social Research Methods**

Semester Credit Hours: 4 sch The course provides a comprehensive overview of social science research methods, with emphasis given to the concepts used in the conduct of research, measurement strategies, and research designs. This course includes a one-semester credit hour lab that focuses on the steps undertaken in the completion of a research paper. Required for all sociology majors. Prerequisite(s): SOCI 3317 and at least one additional course in sociology. Fall

## **Spanish**

### **SPAN 1411 A Beginning Course in Spanish I**

Semester Credit Hours: 4 sch An introduction to the basic language skills-- listening, speaking, reading, and writing-- with emphasis on listening and speaking. Students will meet in the classroom three days per week and will attend the language laboratory one day per week. Fall

### **SPAN 1412 A Beginning Course in Spanish II**

Semester Credit Hours: 4 sch A continuation of SPAN 1411. Prerequisite(s): SPAN 1411 or one year of high school Spanish. Spring

### **SPAN 2311 Intermediate Spanish I**

Semester Credit Hours: 3 sch Further develops proficiency in listening, speaking, reading, and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Students acquire vocabulary and grammatical structures necessary to communicate and comprehend at the intermediate low level according to the ACTFL proficiency guidelines. Prerequisite(s): SPAN 1411 and SPAN 1412, or two years of high school Spanish, or the required score from the CLEP in Spanish. Fall

### **SPAN 2312 Intermediate Spanish II**

Semester Credit Hours: 3 sch A continuation of SPAN 2311. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Students acquire vocabulary and grammatical structures necessary to communicate and comprehend at the intermediate-high level, according to ACTFL guidelines. Prerequisite(s): SPAN 2311, or three years of high school Spanish, or the required score from the CLEP in Spanish. Spring

### **SPAN 2320 Introduction to Latin American Studies**

Semester Credit Hours: 3 sch Taught in English, this course introduces students into Latin American history, society, economics, politics and culture through a multidisciplinary approach. We will discuss topics such as indigenous cosmology, and Spanish conquest, class, race, and gender, the African influence, language, border and migration, culture exchange and appropriation, and Latin studies. Spring

### **SPAN 3301 Advanced Grammar and Syntax**

Semester Credit Hours: 3 sch Analysis of more technical and advanced points of Spanish grammar and syntax with comparisons made to English. Prerequisite(s): Students with native proficiency in Spanish or a background in high school Spanish language study may take the CLEP in Spanish and, if scores justify it, receive three or six hours of sophomore-level Spanish language credit (SPAN 2311, SPAN 2312). However, all students must pass a placement exam to be eligible to enroll in SPAN 3301. Fall

### **SPAN 3302 Advanced Composition and Conversation**

Semester Credit Hours: 3 sch Intensive upper-level course in Spanish grammar and composition. Students completing this course successfully should achieve near-mastery of major grammatical structural issues in Spanish. This course also prepares the students for required advanced literature courses by training them on how to write in academic settings. Prerequisite(s): Intermediate level of Spanish. Spring

### **SPAN 3308 Introduction to Hispanic Literature and Literary Analysis**

Semester Credit Hours: 3 sch This course provides a panoramic introduction to Spain and Latin American literatures. To increase student knowledge, we will analyze some representative texts in poetry, prose, drama, and essay. The course will also contextualize the literary and philosophical tendencies of each era. The specific purpose is to analyze a series of representative works, placing them within their literary context as well as the social and historical. Prerequisite(s): Intermediate level of Spanish. Spring

### **SPAN 3310 Introduction to Spanish Linguistics**

Semester Credit Hours: 3 sch This course provides students with basic knowledge of linguistics and consists of a general introduction to the nature of language and linguistic analysis. The course begins with an exploration of the sound system of Spanish and its theoretical representation focusing on the development of the students' analytical skills. The course covers relevant issues in contemporary Hispanic linguistics, such as language variation, bilingualism, and Spanish in the United States. Prerequisite(s): Intermediate level of Spanish. Fall

### **SPAN 3311 Practical Spanish and Translation**

Semester Credit Hours: 3 sch Analysis and application of Spanish Grammar for Translation with Practical approach to improving Spanish Morpho-Syntax rules for writing into English. Some basic principles of Sociolinguistics will also be presented. Prerequisite(s): Intermediate level of Spanish.

### **SPAN 3312 Spanglish**

Semester Credit Hours: 3 sch The course introduces students to Spanglish, with particular emphasis in the US, Latin America, and Spain. We will consider Spanglish as a jargon that permeates cultures, languages, identities, and ways of seeing reality from sociopolitical and historical perspective in the US. Prerequisite(s): Intermediate level of Spanish. Spring



### **SPAN 3321 Hispanic Civilization**

Semester Credit Hours: 3 sch Currents and characteristics of Spanish culture and history as expressed through the centuries in literature, art, philosophy, and history. Prerequisite(s): Intermediate level of Spanish. Spring

### **SPAN 3331 Advanced Conversation and Public Speaking**

Semester Credit Hours: 3 sch This course focuses on the development and practice of techniques for formal public speaking in Spanish (suited for bilingual educators, lawyers, social workers, communicators, etc.) Includes strategies for organizing and presenting information, rhetorical devices, techniques to reduce speech anxiety, and effective body language for a successful oral presentation in Spanish. Prerequisite(s): Intermediate level of Spanish. Fall

### **SPAN 3332 Spanish for Healthcare Professionals**

Semester Credit Hours: 3 sch This course teaches interpretation skills that will enable a medical professional to conduct a basic conversation with patients in Spanish. In particular, the course will cover common medical terminology in English and Spanish. Prerequisite(s): Intermediate level of Spanish. Spring

### **SPAN 3333 Hispanic Culture Study Abroad**

Semester Credit Hours: 3 sch The focus of this course is to give students credits for short-term faculty-led trips to Spain or any other Spanish-speaking country in Latin America. The syllabus will be flexible depending on the country of destination and the specific topic to be covered. Summer

### **SPAN 4301 Spanish Literature I**

Semester Credit Hours: 3 sch Peninsular Spanish literature from the Medieval period to the 18th century. Prerequisite(s): SPAN 3301 or SPAN 3302 Spring

### **SPAN 4302 Spanish Literature II**

Semester Credit Hours: 3 sch Peninsular Spanish literature from the 18th century to the present. Prerequisite(s): SPAN 3301 or SPAN 3302 Spring

### **SPAN 4303 Film Music**

Semester Credit Hours: 3 sch This course explores today's leading art form. It traces the history of film music, its changing relationship to cinematography, and its inspiring future. Students will learn to critically discuss the language of film music and the many roles it plays in cinematic drama. Finally, participants will learn to document their aesthetic experience of major film scores. Taught in Spanish. Also taught in English, but students can only take one of HUMA 4302 / MUSI 4302 or HUMA 4303 / SPAN 4303 / MUSI 4303 for credit.

### **SPAN 4304 Virtual Reality**

Semester Credit Hours: 3 sch History, culture, and social dynamics of the phenomenon of "virtual worlds," and their influences on contemporary culture and society. Taught in Spanish. Also taught in English, but students and only take one of HUMA 4301 or HUMA 4304 / SPAN 4304 / SOCI 4304 for credit.

### **SPAN 4311 Spanish-American Literature I**

Semester Credit Hours: 3 sch Spanish-American literature from the Pre-Hispanic period through Romanticism. Prerequisite(s): SPAN 3301 or SPAN 3302 Fall

### **SPAN 4312 Spanish-American Literature II**

Semester Credit Hours: 3 sch Spanish-American literature from Modernism to the present. Prerequisite(s): SPAN 3301 or SPAN 3302 Fall

### **SPAN 4331 Spanish Phonetics and Phonemics**

Semester Credit Hours: 3 sch Spanish phonology with emphasis on oral drills; an introduction to elementary applied linguistics. Prerequisite(s): SPAN 3301.

### **SPAN 4351 Mexican Literature**

Semester Credit Hours: 3 sch A study of selected works by Twentieth Century Mexican authors. Selections may include works by Elena Garro (winner of many national and international awards), Rosario Castellanos, Elena Poniatowska, Octavio Paz (winner of the Nobel Prize in Literature), and other Mexican authors. Prerequisite(s): SPAN 3301 or SPAN 3302

### **SPAN 4352 Mexican-American Literature**

Semester Credit Hours: 3 sch Mexican-American literature in Spanish and English focusing on native authors, to understand realities and experiences of Mexican-American community. Prerequisite(s): SPAN 3301 or SPAN 3302.

### **SPAN 4360 Spanish Golden Age Literature**

Semester Credit Hours: 3 sch This course introduces the student to some of the major works of Spanish literature from the Renaissance through the Baroque. Readings will include lyric and epic poems, plays, a picaresque novel, and several additional prose selections. Prerequisite(s): SPAN 3301 or SPAN 3302 Spring

### **SPAN 4361 Cervantes' Don Quixote**

Semester Credit Hours: 3 sch A close reading of Europe's first modern novel, with additional reference to historical and literary background that helped shape the writer's poetics. A masterpiece of world literature, a profound commentary on life, and a perennial source of inspiration for the understanding of the modern imagination. Prerequisite(s): SPAN 3301 or SPAN 3302 Spring

### **SPAN 4389 Selected Topics**

Semester Credit Hours: 3 sch Undergraduate courses which will be offered only once, will be offered infrequently, or are being developed before a regular listing in the catalog. Fall

## **Statistics**

### **STAT 2301 Introductory Statistics I**

Semester Credit Hours: 3 sch This is an introductory course in statistics and provides students with the basic concepts of data analysis and statistical computing. Topics covered include basic descriptive measures, probability theory, measures of association, confidence intervals, and hypothesis testing. Prerequisite(s): High school mathematics. Fall

### **STAT 2302 Introductory Statistics II**

Semester Credit Hours: 3 sch This course introduces basic descriptive and inferential statistics using both regression and correlation. You will be able exposed to numerous examples of real-world applications of statistics that are designed to help you develop a conceptual understanding of statistics. Prerequisite(s): STAT 2301 Spring

### **STAT 3301 Applied Continuous Probability**

Semester Credit Hours: 3 sch This course begins with basic concepts of probability and statistics based on discrete and continuous distributions. The course then introduces selected topics required for engineering degrees. Prerequisite(s): MATH 2414 Fall, Spring

### **STAT 4301 Stochastic Process**

Semester Credit Hours: 3 sch This course is to introduce random processes and their applications. It mainly takes a discrete-time point of view and discusses the continuous-time case when necessary. The course included the basic concepts of random variables, random vectors, stochastic processes, and random fields. Prerequisite(s): MATH 3301 or STAT 3301 Fall, Spring

### **STAT 4310 Nonparametric Statistical Methods**

Semester Credit Hours: 3 sch Non-parametric statistics refer to statistical methods in which data is not required to agree with the parametric assumptions about the data, however, the tests are valid under fewer assumptions. The course will include elementary non-parametric testing procedures, especially test based on ranks such as Wisconsin test and permutation. Also the course will cover the computer-intensive methods such as the jackknife and bootstrap. Prerequisite(s): STAT 2302 Fall

### **STAT 4311 Applied Regression Analysis**

Semester Credit Hours: 3 sch This course is intended to be an introduction to regression analysis techniques. Its focus will be on the application of linear regression models in practice but will also cover basic theory of the linear model. Prerequisite(s): STAT 2302 Spring

## **STAT 4312 Multivariate Statistical Methods**

Semester Credit Hours: 3 sch This course is to introduce topics in multivariate analysis and to provide some experience in their application and interpretation. Prerequisite(s): STAT 4311

# **Theatre**

## **THEA 1311 2D-Design**

Semester Credit Hours: 3 sch The study of design concepts including color theory, value scales and perspective. ARTS 1311

## **THEA 1312 3D-Design**

Semester Credit Hours: 3 sch Exploration of the visual structure and organization of three-dimensional forms in a variety of materials, with an emphasis on the development of creative and critical skills, object and material processing, and concept development. Spring ARTS 1312

## **THEA 1351 Introduction to Acting**

Semester Credit Hours: 3 sch This course introduces students to the artistic craft of acting for the stage. Students will develop a character from the page for the stage by identifying character objectives and incorporating them into movement and speech within the context of a play. At the same time, students will explore the dynamics of character both in a written work and in amateur and professional productions.

## **THEA 1330 Introduction to Stagecraft**

Semester Credit Hours: 3 sch The study and creation of design and props for Theatre using the tools and materials in a safe and effective manner. Open to non-art majors.

## **THEA 2361 Introduction to Theatre**

Semester Credit Hours: 3 sch This course explores theatre as a live performing art. As students complete a historical survey of drama, they will be exposed to developing concepts of acting and stage design. Students will explore the relationship between theatre and society, dramatic structure, theatrical presentation, and the crafts of theatre artists such as directors, designers, playwrights, and actors.

## **THEA 3121 Practicum in Stagecraft**

Semester Credit Hours: 1 sch The study and creation of design and props for Theater using the tools and materials in a safe and effective manner. This course includes woodworking, stage rigging, lighting, audio and other theatre practices.

## **THEA 3122 Practicum in Opera and Musical Theatre**

Semester Credit Hours: 1 sch Students will participate as actors, singers and dancers in musical theatre and/or opera productions.

## **THEA 3368 Dance for Theatre**

Semester Credit Hours: 3 sch This class will focus on performing beginning movement through classical ballet as the basis for almost all other dance including period dance and introduction to movement in musical theatre/opera performance. Students will perform choreographed dance in one or more performances.

# University

## **UNIV 0400 Integrated Reading and Writing**

Semester Credit Hours: 1 sch This course is designed to cover reading and writing instruction for students who require preparation for college-level courses. Students will learn to read and write interactively, critically, and strategically; improve reading comprehension of narrative and content area text; and develop written work appropriate to audience, purpose, and situation. Fall, Spring

## **UNIV 1101 Freshman Seminar**

Semester Credit Hours: 1 sch This course is designed to smooth the advance of students into the university environment. It is focused on key competencies for personal and academic success. The course is required for all freshman students who have entered with 24 or fewer college credits. Prerequisite(s): No prerequisite. Fall, Spring

## **UNIV 1301 Honors Freshman Seminar I**

Semester Credit Hours: 3 sch This constitutes the first in a three-part series of courses required for students enrolled in the University's Honors Program. In this course, students will learn of the most influential ideas, authors, and trends that have helped to shape the 21st Century world. Admission to the University's Honors Program is required before enrolling in this course. Fall

## **UNIV 1302 Honors Freshman Seminar II**

Semester Credit Hours: 3 sch This constitutes the second in a three-part series of courses required for students enrolled in the University's Honors Program. In this course, students will learn of the most influential ideas, authors, and trends that have helped to shape the 21st Century world. Successful completion of Honors Freshman Seminar I UNIV 1301 is required before enrolling in this course. Spring

## **UNIV 2301 Honors Sophomore Seminar I**

Semester Credit Hours: 3 sch This constitutes the third in a three-part series of courses required for students enrolled in the University's Honors Program. In this course, students will learn of the most influential ideas, authors, and trends that have helped to shape the 21st Century world. Successful completion of UNIV 1302 Honors Freshman Seminar II is required before enrolling in this course. Fall

# Undergraduate Interdisciplinary Research Experience

## **UGR 1111 Freshman Interdisciplinary Research Experience**

Semester Credit Hours: 1 sch This course is designed to assist students who are interested in research as essential to their future goal and professions. Students will be introduced to a wide range of research practice through class seminars, laboratory and studio visits. Fall, Spring

## **UGR 2111 Sophomore Interdisciplinary Research Experience**

Semester Credit Hours: 1 sch This course is designed to assist students who are interested in research as essential to their future goal and professions. Students will be introduced to a wide range of research practices through class seminars, laboratory and studio visits. The sophomore experience will focus on scaffolded peer to peer mentoring and research practices. Fall, Spring

## **UGR 3111 Junior Interdisciplinary Research Experience**

Semester Credit Hours: 1 sch This course is designed to assist students who are interested in research as essential to their future goal and professions. Students will be introduced to a wide range of research practices through class seminars, laboratory and studio visits. The junior class will focus on preparation for publication, professional practices and graduate school. Fall, Spring

### **UGR 4111 Senior Interdisciplinary Research Experience**

Semester Credit Hours: 1 sch This course is designed to assist students who are interested in research as essential to their future goal and professions. Students will be introduced to a wide range of research practices through class seminars, laboratory and studio visits. The senior class will focus on preparation and application for graduate school and the career aspects of research. Fall, Spring