An Equal Opportunity University

It is the policy of Texas A&M University-Commerce to recruit, hire, and promote for all university academic and non-academic staff without regard to race, color, national origin, gender, disability, age or religion.

Admission to A&M-Commerce is based upon stated academic requirements regardless of race, color, national origin, gender, disability, age, or religion.

Directory Information and Its Release

In compliance with Section 438 of the General Education Provisions Act (Title IV of Public Law 90-247 as amended) and generally known as the Privacy Rights of Parents and Students, effective November 19, 1974, Texas A&M University-Commerce gives notice that the following directory information will be released upon request: student’s name, address (permanent or local), telephone listing, email address, classification, class standing, date(s) of attendance, date of graduation, degrees/honor/awards received, program of study, previous educational agencies and sports participation. Any student who objects to the release of all or any part of the directory information on file in his or her name must notify the Registrar’s Office, Administration Building, in writing, that he or she does not wish to have such information released. This request will be honored, and all or any portion of the information which the student requests to be withheld will be held confidential by the Registrar’s Office. Any questions concerning this policy may be directed to the Registrar’s Office, Administration Building, Texas A&M University-Commerce, P. O. Box 3011, Commerce, Texas 75429.

University Statement of Policies

The policies, procedures, and regulations governing the conduct of students at A&MCommerce are outlined in the Student Guidebook. The Guidebook is available online at www.tamu-commerce.edu/studentlife/guidebook.asp. It is the responsibility of the student to make himself/herself aware of all policies. Disciplinary matters are handled by the Dean of Students Office. University policies and procedures are subject to change without prior notice.

Texas Higher Education Coordinating Board

Established in 1965, the Texas Higher Education Coordinating Board has general and specific authority in areas of academic programs, finance, and facilities and has been designated the administrator at the state level for federal educational programs.

For More Information

For additional information about a specific department or office at A&M-Commerce, write to that office c/o Texas A&M University-Commerce, Commerce, Texas 75429; or call 903-886-5102; or visit our web site at www.tamu-commerce.edu.
Texas A&M University-Commerce

is accredited by the
Commission on Colleges of the Southern Association of Colleges and Schools
(1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone 404-679-4501)
to award bachelor’s, master’s, and doctoral degrees.

Texas A&M University-Commerce

is also accredited by
The Association to Advance Collegiate Schools of Business - AACSB International
State Board for Educator Certification
The National Association of Schools of Music,
The Engineering Accreditation Commission of ABET
111 Market Place, Suite 1050
Baltimore, MD 21202-4012
Telephone: 410-347-7700
www.ABET.ORG
The Council on Social Work Education,
American Chemical Society,
Council for Accreditation of Counseling and Related Educational Programs, and
Masters in Psychology Accreditation Council

is a member in good standing of the
National Association of School Psychologist
Association of Texas Colleges and Universities,
American Association of Colleges for Teacher Education,
American Association of State Colleges and Universities,
The American Association of University Women,
National Commission of Accrediting,
The Council of Graduate Schools in the United States,
The provisions of this catalog do not constitute a contract, expressed or implied, between any applicant, student, faculty or staff member of Texas A&M University-Commerce or The Texas A&M University System. This catalog is for informational purposes only. The University reserves the right to change or alter any statement herein without prior notice. This catalog should not be interpreted to allow a student that begins his or her education under the catalog to continue the program under the provisions of the catalog.

Students are held individually responsible for the information contained in the University Catalog. Failure to read and comply with University regulations will not exempt students from whatever penalties they may incur.

Official 2010-2011 University Calendar*

Click on any of the following links for information:

- Fall Semester 2010
- Winter_Mini_2011
- Spring_Semester_2011
- May_Mini_2011
- Summer_I_2011
- Summer_II_2011
- August_Mini_2011

Fall Semester 2010

Priority Deadline for Undergraduate Admission Applications for Fall 2010                               July 1
Final Deadline for Undergraduate Admission Applications for Fall 2010                               August 1
Fall Assembly
Payment Deadline
Orientation & Registration International Students
Registration continues
First Class Day
Graduation Application filing period
Last day to register or change schedules
Schedules removed for non-payment of tuition/fees for Fall 2010
Last day to drop a class with refund, if remaining enrolled
Last Day to drop while still remaining enrolled
Homecoming
Mane Event Preview Day
Thanksgiving Holidays
Classes resume following holiday
Last day to withdraw from school
Last Class Day
Final exams
Commencement

Winter Mini 2011

Payment deadline
First Class Day
Last Day to register or change schedules
Schedules removed for non-payment of tuition/fees for Winter Mini 2010
Last Class Day
## Spring Semester 2011

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tr>
<td>Priority Deadline for Undergraduate Admission Applications for Spring 2011</td>
<td>November 1</td>
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<tr>
<td>Final Deadline for Undergraduate Admission Applications for Spring 2011</td>
<td>December 1</td>
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<tr>
<td>Spring Assembly</td>
<td>January 13</td>
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<tr>
<td>Orientation &amp; Registration—International Students</td>
<td>January 13</td>
</tr>
<tr>
<td>Payment deadline</td>
<td>January 14</td>
</tr>
<tr>
<td>Registration continues</td>
<td>January 18 - 21</td>
</tr>
<tr>
<td>First Class Day</td>
<td>January 18</td>
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<tr>
<td>Graduation Application filing period</td>
<td>January 18 - February 4</td>
</tr>
<tr>
<td>Last day to register or change schedules</td>
<td>January 21</td>
</tr>
<tr>
<td>Holiday, Martin Luther King Day</td>
<td>January 17</td>
</tr>
<tr>
<td>Schedules removed for non-payment of tuition/fees for Spring 2011</td>
<td>January 26</td>
</tr>
<tr>
<td>Last day to drop a class with refund, if remaining enrolled</td>
<td>February 2</td>
</tr>
<tr>
<td>Last day to drop while still enrolled</td>
<td>March 25</td>
</tr>
<tr>
<td>Mane Event Preview Day</td>
<td>March 5</td>
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<tr>
<td>Residence halls close for Spring Break at 5 p.m</td>
<td>March 11</td>
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<tr>
<td>Spring Break</td>
<td>March 14 - 18</td>
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<td>Classes resume following Spring Break</td>
<td>March 21</td>
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<tr>
<td>Alumni Forum</td>
<td>April 7</td>
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<tr>
<td>Last day to withdraw from school</td>
<td>April 29</td>
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<tr>
<td>Last Class Day</td>
<td>May 7</td>
</tr>
<tr>
<td>Final exams</td>
<td>May 9 - 13</td>
</tr>
<tr>
<td>Commencement</td>
<td>May 14</td>
</tr>
</tbody>
</table>
May Mini 2011

Payment Deadline  May 13
First Class Day  May 16
Last day to register or change schedules  May 17
Schedules removed for non-payment of tuition/fees for May mini 2010  May 17
Last Class Day  June 1

Summer I 2011

Priority Deadline for Undergraduate Admission Application for Summer I, 2011  March 1
Final Deadline for Undergraduate Admissions Applications for Summer I, 2011  May 1
Memorial Day  May 30
Orientation for New International Students  June 3
Payment Deadline  June 3
First Class Day  June 6
Registration continues  June 6-7
Last day to register or change schedules  June 7
Last day to drop a class with a refund, if remaining enrolled  June 9
Schedules removed for non-payment of tuition/fees for Summer I, 2011  June 9
Last day to drop while still enrolled  June 23
Last day to withdraw from school  June 30
Graduation Application filing period  June 6 - 17
Holiday, Independence Day  July 4
Final exams and last day of classes for Summer I  July 7
Summer II 2011

Priority Deadline for Undergraduate Admission Application for Summer II, 2011  March 1
Final Deadline for Undergraduate Admissions Applications for Summer II, 2011  June 1
Payment Deadline  July 8
Schedules removed for non-payment of tuition/fees for Summer II, 2011  July 14
First Class Day  July 11
Registration continues  July 11 - 12
Last day to register or change schedules  July 12
Last day to drop a class with a refund, if remaining enrolled  July 14
Last day to drop while still enrolled  July 28
Last day to withdraw from school  August 4
Final exams and last day of classes for Summer II  August 11
Commencement  August 13

August Mini 2011

Payment Deadline  August 11
First Class Day  August 12
Last day to register or change schedules  August 15
Schedules removed for non-payment of tuition/fees for Aug. Mini 2011  August 15
Last Class Day  August 27

*This calendar is subject to revisions. Check the most recent schedule of classes for published revisions.

General Information
Click on either of the following links for information:

- University Purpose
- The Campus

### University Purpose

#### Our History

Texas A&M University-Commerce began as East Texas Normal College in 1889 when founder William Leonidas Mayo opened the doors to a one-building campus in Cooper. His creed, which continues today, was “ceaseless industry, fearless investigation, unfettered thought, and unselfish service to others.” The institution’s history of dynamic change began in 1894 when “Mayo’s College” moved to Commerce. The State of Texas took over the campus in 1917 and the name was changed to East Texas State Normal College. In 1923, the school was renamed East Texas State Teachers College. The graduate program was added in 1935, and in 1957 the Legislature, recognizing that the purpose of the institution had broadened from teacher education, changed the name to East Texas State College. Following the inauguration of the first doctoral program in 1962, the name was changed to East Texas State University. In 1996, the institution entered The Texas A&M University System and became Texas A&M University-Commerce. Today, on the Commerce campus, the Metroplex Center, the Universities Center at Dallas, Navarro College Partnership, and through state-of-the-art distance learning, the University meets the undergraduate, graduate and professional needs of the citizens of Northeast Texas and beyond. Its mission is achieved through teaching, scholarship, and service activities on its campuses, and in the community and region. For a more detailed history, go to http://www.tsha.utexas.edu/handbook/online/articles/view/TT/kct50.html.

#### Our Vision

Texas A&M University-Commerce will be recognized as a premier regional university, distinctive for high expectations, a nurturing environment, and innovations in the enhancement of learning to produce graduates who distinguish themselves in their chosen careers and as active, contributing members of society.

By focusing on access, participation, and success of students in quality undergraduate and graduate degree programs, Texas A&M University-Commerce will become the university of choice for those seeking a higher education in the Northeast Texas area. As a result, Texas A&M University-Commerce will be recognized for the creation of partnerships and initiatives that promote intellectual, social, environmental economic, and cultural advancement of the region and state.

#### Our Mission

Texas A&M University-Commerce provides a personal educational experience for a diverse community of life-long learners. Our purpose is to discover and disseminate knowledge for leadership and service in an interconnected and dynamic world. Our challenge is to nurture partnerships for the intellectual, cultural, social and economic vitality of Texas and beyond.

### The Campus

Texas A&M University-Commerce covers 1,888 acres of land in and near Commerce. The university is located eight blocks southwest of Commerce’s business center, and has a book value in excess of $169 million.

### James G. Gee Library

(903-886-5715)
Assisting patrons is our top priority at the James G. Gee Library. The main library in Commerce and branch in Mesquite have a staff of nearly 40 full-time workers and a number of student workers. The University Libraries offer decades of combined experience motivated by a strong service ethic. Our friendly staff does its best to support faculty, students, and staff, whether it is assistance with finding or using resources, doing research, acquiring new resources, offering Interlibrary Loan services, faculty reserves, keeping the collections orderly and accessible, or helping patrons borrow and return items. We also provide services to the surrounding community and the growing number of off-site programs.

The Public Services Area consists of Interlibrary Loan, the Reference Team and the Circulation Team. Circulation helps with borrowing and returns of items, location of lost items, and the faculty reserves collection. They also help with color scanning, printing, and photocopy services. The Reference Team offers assistance in finding and using informational resources whether in print, microforms, or electronic delivery. The Reference Librarians offer expertise in various subject areas. They can help researchers quickly find the most reliable and current information.

When Gee Library or the Metroplex Center library does not own a needed resource, our fast and friendly Interlibrary Loan Team can get books, recordings, journal articles, and many other items from other institutions. For our students, faculty and staff, these services are free of charge. Items can be delivered to the Commerce campus, Mesquite Metroplex Center, UC Dallas, Midlothian, or Navarro. Items can also be delivered to distance education students and faculty via e-mail or postal service. ILL makes it possible for students and faculty to have access to variety of materials worldwide.

Our branch library at the Metroplex Center not only provides access to print and electronic resources, it offers full library services to students based in the Metroplex. These services include Interlibrary Loan, Internet access, and faculty support services such as Bibliographic Instruction and course reserves.

There are several units at work behind the scenes. Acquisitions, Collection Development, Cataloging, and Serials process thousands of items every year. These specialized units work together to choose, purchase, and organize all resources that are added to the library collection. They are a vital part of helping to keep our information resources current, focused to campus needs, and accessible.

Another important part of the Gee Library team is our Systems Unit. They help maintain the computer hardware and software and provide computer related troubleshooting services for library staff and patrons.

There are several useful resources within the University libraries. Extensive book and journal collections in print and electronic delivery cover a wide variety of disciplines. We have education collections that offer children’s literature and curriculum materials. In Commerce, our Special Collections contain materials unique to northeast Texas helpful to historians and genealogists. We offer access to federal and state Government Documents, as well as federal and state law resources in print and electronic delivery. A growing number of our resources can be accessed from the comfort of office, home, or residence hall via the Internet.

Gee Library provides an Information Commons consisting of computers with Internet access and specialized programs, as well as areas for individual study and collaborative spaces for group projects.

Administration Building

The $2.2 million, three-story McDowell Administration/Business Administration Building houses administrative offices, classrooms, laboratories, and computer facilities. The building was completed in 1970.

The Offices of the President, Vice Presidents and Planning Institutional Effectiveness Research are housed on the second floor of the McDowell Administration Building. The Offices of Graduate School, Computer Center, Purchasing, Human Resources, Payroll, Contract Administration, Bursar, and Financial Services are located on the ground floor. The office of Annual Programs is on the third floor. The College of Business and Technology is located in the eastern portion of the building.

Student Services Building
Built in 1970, the three-story D. Whitney Halladay Student Services Building houses the offices of the Dean of Campus Life and Student Development, Assistant Dean of Students, Counseling Center, Center for Applied Leadership, Judicial Affairs, Residential Living and Learning, International Student Services, TRIO Programs, and Diversity and Cultural Affairs.

The Department of Residence Life at Texas A&M University-Commerce offers a variety of living environments including traditional residence halls, suite-style residence halls, single student apartments, and family housing apartments. The Department of Residence Life strives to create a living-learning environment in each residence hall that will enable each resident to succeed academically and developmentally. The Department of Residence Life is located in Whitley Hall. For more information about student housing, see Department of Residence Life and/or visit the department’s website at www.tamu-commerce.edu/housing.

**Sam Rayburn Student Center**

The new Sam Rayburn Student Center located across from the Science Building is the newest facility on campus to serve students. This $25 million building provides modern, state-of-the-art meeting rooms, a food court, game room, dining room, informal lounges, patios and lockers.

A great feature is the student Club which has Buzztime video screens as well as regular TV flat panels, premium sound and visual display systems, concession service and programs daily.

The Student Activities and Leadership hub is home to offices for the Campus Activities Board, Student Government, Greek Life, Golden Leos, and other key student organizations. Students are invited to visit here to get involved in their college experience and interact. Administrative offices are located in the same suite to make it convenient to book rooms, arrange meetings, plan your catering and work out the details for your next successful event.

The Campus Bookstore and Convenience Store, ATM, InfoDesk—Campus Concierge, Graf/x Place, Digital Copy Centre, Pride Shop and Video Wall are located on the first floor. All meeting rooms and large ballrooms and offices are located on the second floors.

**Morris Recreation Center**

A $12 million state-of-the-art recreation facility is one of the newest additions to the A&M Commerce campus. The Morris Recreation Center officially opened its doors in the summer 2003. The facility features the following activity areas: a 45 foot climbing rock, 3 lane jogging track, 4 racquetball courts, 2 basketball courts, large fitness room with cardiovascular machines and weight equipment, aerobic room, classroom, snack area, and men’s and women’s locker rooms. The outside area includes: heated leisure pool, 2-tier hot tub, 2 sand volleyball courts, 2 outdoor basketball courts, picnic tables, barbeque pits, and a sunbathing area. The Morris Rec Center is the focal point of the A&M Commerce campus and serves as the “heartbeat” of student life. Additional information about our services is available at the department's website: www.tamu-commerce.edu/reccenter

**Cain Sports Complex**

The $1 million dollar facility includes a lighted NCAA softball field and baseball field, two (2) lighted Intramural Sports fields, an informal soccer field, a picnic area, horseshoe pits, a lake, and an undeveloped green space.
Adventure Base Area

The Adventure Base is our newest edition to the Outdoor Programming offered by Campus Recreation. An extensive challenge course awaits you. It boast over 20 high and low elements to challenge your team or group. The facility also offers a range of experiential learning opportunities ranging from camping skills to ecology. Come by our new Outdoor Resource Center to find out more.

Crabtree Tennis Courts

The four (4) court tennis complex is available for informal play and tournaments.

Other Recreational Facilities

A&M-Commerce’s Memorial Stadium, which seats 10,000, is used for athletics and other special events. In intercollegiate athletics, A&M-Commerce competes in football, basketball, track and field, cross country, golf, soccer, and volleyball. Texas A&M University-Commerce is a member of the Lone Star Conference of Texas and the National Collegiate Athletic Association (NCAA) Division II.

The Performing Arts Center has two theatres, a revolving stage in the main playhouse, scene shop, dressing rooms, makeup rooms, and studios for the public radio stations KETRFM (100,000 watts) and KKOM and studios for KETV-Television cable Channel 3. The University Playhouse produces several plays during the school year. The Department of Music sponsors 14 musical groups, including A&M-Commerce’s Show Band.

The 1,200-seat University Auditorium is housed in the Ferguson Social Sciences Building.

Student publications are The East Texan, a weekly newspaper; A&M-Commerce Special, a feature magazine; and Forthcoming, a magazine of prose and poetry.

More than 100 social, departmental, special interest, and religious organizations offer many opportunities for students.

Administrative Procedures

Click on any of the following links for information:

- Requirements for Undergraduate Admission
- Undergraduate Admission Policy
- Transfer Admission
- Texas Success Initiative (TSI)
- First-Year Success Seminar
- Regents’ Scholars Program
- E-Mail for University Communication
- Registration (MyLeo)
- Tuition and Fees
The following section details steps to and eligibility for admission to undergraduate programs of the University. Services provided to students, as well as legal and policy requirements, are outlined.

**Requirements for Undergraduate Admission**

**Application for Admission.** The application for admission and other necessary forms may be obtained from the Admissions Office or may be filed electronically at http://web.tamu-commerce.edu/admissions/getstarted/ The Apply Texas Application at www.applytexas.org may also be submitted.

**Official Transcript.** High school transcripts should show the units completed, the grades earned, the date of graduation, and the rank in class. Admissions acceptance will be tentatively granted on the basis of the completion of junior year.

An applicant who attended another academic institution or any institution for vocational or advanced education, if only for a short period of time, must include this work as a part of the admission application information.

**Admission Test Results.** All applicants for admission who have passed fewer than 21 semester hours of transferable academic work must submit scores from either the American College Test (ACT) or the College Entrance Examination Board Scholastic Aptitude Test (SAT). The A&M-Commerce code for ACT is 4088 and the A&M-Commerce code for SAT is 6188.

The ACT and SAT are given at more than 1,000 test centers throughout the United States, including A&M-Commerce. High school officials can provide further details.

**Social Security Number/Campus Wide ID Number (CWID).** A new campus wide ID number is now used as a permanent student identification number. The campus wide ID number is generated for all students admitted to the University. Campus Wide ID numbers are specific to Texas A&M University-Commerce Students will be assigned a CWID when they submit an official document or application for admission. Social Security numbers will continue to be printed on transcripts as a means of identifying students. Application for Social Security numbers may be obtained from any post office.

**Application Deadlines.** Application deadline dates are as follows:

<table>
<thead>
<tr>
<th>Term</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>Fall Priority Deadline</td>
<td>March 1</td>
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<tr>
<td>Fall Final Deadline</td>
<td>August 1</td>
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<tr>
<td>Spring Priority Deadline</td>
<td>November 1</td>
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<tr>
<td>Spring Final Deadline</td>
<td>January 1</td>
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<tr>
<td>Summer I Priority Deadline</td>
<td>April 1</td>
</tr>
<tr>
<td>Summer I Final Deadline</td>
<td>May 1</td>
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<tr>
<td>Summer II Priority Deadline</td>
<td>April 1</td>
</tr>
<tr>
<td>Summer II Final Deadline</td>
<td>June 1</td>
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The status of applications may be reviewed by using the MYLEO system. Refer to the Schedule of Classes for instructions or access MYLEO through http://MyLeo.tamu-commerce.edu.

**Undergraduate Admission Policy**

**Freshman Admission Requirements**
First time freshmen may be admitted to Texas A&M University-Commerce by one of the following ways:

- First time freshmen who graduate in the top 25% of their graduating class from an accredited public or private high school in Texas are automatically admitted, but must submit ACT or SAT scores. To qualify for this automatic admission, high school graduation must be in one of the two years preceding the academic year for which the applicant is applying.
- First time freshmen who have an SAT combined critical reading and math score of 950 or higher.
- First time freshmen who score a minimum of 20 ACT or higher.

*Required High School Curriculum: (Recommended Plan):*

- **English** 4 units (English I, II, III, IV)
- **Mathematics** 3 units (Algebra I, II; Geometry or other Math course beyond Algebra II).
- **Science** 3 units (Biology, Physics, or Chemistry)
- **Social Science** 4 units (U.S. History, Government, World or State History, Geography or Economics)

Individual departments may have additional requirements for full participation in their programs. Please see specific departmental sections elsewhere in this catalog.

*Exceptional Application Categories:*

1. First time freshmen applicants possessing the GED will be considered for admission only after their senior high school class graduates and they have reached the age of 18. A minimum of 20 ACT or 920 SAT (combined Critical Reading and Math) is required for admission.
2. First time freshmen applicants graduating from a nonaccredited school will be required to achieve a minimum score of 20 ACT or 920 SAT (combined Critical Reading and Math).
3. First time freshmen who are home schooled will be required to achieve a minimum score of 20 ACT or 920 SAT (combined Critical Reading and Math).
4. First time freshmen whose high school graduation is more than five years preceding the academic year for which they are applying, will be required to submit a satisfactory score of 14 on the Reading Comprehension Test of the American College Testing program (ACT), administered by the Office of Testing and Evaluation Services at Texas A&M University-Commerce. Students in this five-year category may also submit satisfactory scores from an ACT/SAT test administered within the last five years.

*Individual Approval*

Applicants who do not meet automatic admission requirements based on ranking and/or SAT/ACT scores will be reviewed by the university's Admission Committee. The committee will consider other factors including academic performance in the high school, socioeconomic status, extracurricular involvement, performance level of high school/district or any other information that might be helpful. To be reviewed by the Admissions Committee the applicant should submit a personal statement and at least two letters of recommendation. Information should be sent to the Director of Undergraduate Admissions.

*Admission with Distinction*

Students who earn an ACT composite single score of 26 or more, or an SAT composite single score of 1180 or more are eligible for admission with distinction.

*Admission to Concurrent Enrollment for High School Seniors*
High School seniors may enroll in college-level courses beginning with the summer session following their junior year. These students must:

1. Qualify for standard admission with a minimum of 20 on the ACT or 920 on the SAT (combined Critical Reading and Math) or have a grade average of “A” (90%) in high school work through the junior year, including selected core courses in English, math, history, and laboratory science;
2. Qualify for college-level courses by being exempt from THEA through high ACT, SAT or TAKS scores, or by passing all sections of the THEA test. Students who do not pass all parts of the THEA test may not take college-level classes related to portions of the test that have not been passed. High school students who have not passed all portions of THEA are encouraged to take courses while in high school to remedy a skill deficiency. Students who are not otherwise exempt from the THEA test must have a math score on the THEA test of 270 to qualify for college algebra courses.
3. Submit a letter of recommendation from the principal and/or counselor.

Concurrent students may enroll for as many as two freshmen classes per semester.

**Transfer Admission**

A transfer student is defined as a student seeking first-time admission who previously attended an accredited institution of higher learning and is eligible to return to that institution. A transfer student will have 21 or more hours (excluding developmental courses). Students with fewer than 21 hours will be considered for admission on the basis of their ACT or SAT test scores, rank in high school class, and must have a cumulative GPA of 2.0 (on a 4.0 scale) on all college work attempted. To meet the needs of transfer students, Texas A&M University-Commerce has joined the Texas Common Course Numbering System (TCCNS).

Participating institutions and a list of common courses offered at A&M-Commerce are found in the back of this catalog. TCCNS numbers are also shown in parenthesis after the catalog course number in the course description.

Beginning Fall 2000, all new students who enter A&M-Commerce for the first time will have their cumulative grade point average calculated on courses taken at A&M-Commerce only. Courses taken at other institutions will no longer be considered in the calculation of the A&M-Commerce grade point average.

A transfer student must meet the following requirements:

1. File application for admission to the University Admissions Office by the deadline published in the official University Calendar found in the front of this catalog or in the schedule of classes for each semester.
2. Submit an official transcript from each institution previously attended. A transcript is considered official only if received directly from the sending institution or if hand delivered, in a sealed registrar’s envelope. Transcripts should be submitted to the Undergraduate Admissions Office.
3. Have a cumulative GPA of 2.0 (on a 4.0 scale) on all college work attempted. Individual departments may have additional requirements for full participation in their programs. Please see specific department sections elsewhere in this catalog.

Courses taken at junior or community colleges cannot transfer as advanced hours (course numbers beginning with a 3 or 4 indicate advanced hours). The applicability of transferred credit toward a degree is subject to the preparation of a degree plan by an academic department. Students must complete a minimum of sixty semester hours from an upper division institution. Therefore, a maximum of 60 to 66 semester hours from a junior or community college will be counted towards an A&M-Commerce degree.

Should a dispute arise regarding the transferability of a course, the student must contact the Division of Enrollment Management. If the dispute is not satisfactorily resolved, the Dean will notify the Commissioner of Higher Education in accordance with the Texas Higher Education Coordinating Board rules. The Commissioner or an appropriate designee will make the final decision and notify the parties concerned.

**Students on Academic Suspension from another institution are ineligible for admission to Texas A&M University-Commerce until their designated suspension period has passed. When the period of suspension has passed, the student may be considered for admission.**

**Admission to Special Programs**
An undergraduate student who desires to take courses at Texas A&M University-Commerce and who is not presently working toward a degree at A&M-Commerce may be admitted to a special program if admission requirements are met.

A special program does not lead toward a degree granted at A&M-Commerce. These are:

1. Vocational teacher training program;
2. Any course to meet school board or state requirements for public school teachers;
3. Isolated personal enrichment courses;
4. Pre-professional courses to meet requirements for a state license;
5. Any other program or course not applicable toward a degree.

A student who has been denied regular admission to A&M-Commerce because of low admission test scores or a low grade point average may not apply for the special admission status. A student who has been dismissed, because of low academic standing from A&M-Commerce or another institution, may not apply for admission to a special program until such a time as the student is eligible to return to the educational institution last attended.

Readmission

Students who have attended A&M-Commerce but have not been in attendance in the long semester preceding the semester of anticipated return must apply for readmission well in advance of the registration date. If students seeking readmission were enrolled at other colleges or universities, official transcripts must be provided to the A&M-Commerce Admissions Office and a grade point average of 2.00 on a 4.00 scale must have been attained. See Scholastic Probation and Suspension section of this catalog.

Out-of-State Students

Applicants residing out of state must meet all the requirements specified for freshman admission or transfer admission. Students whose legal residence is in Oklahoma, Louisiana, or Arkansas should see page 21 for special tuition information.

International Students

An international student is any degree-seeking student holding a nonimmigrant student visa.

Residents of foreign countries who wish to enter the University should apply to the Office of Admissions well in advance of the semester they plan to attend. Please see below for admission deadlines for International Applicants. Every applicant must show evidence of: (1) scholastic ability; (2) proof of financial support; and (3) an adequate command of the English language as demonstrated by a score of at least 500 (PBT) or 173 (CBT) or 61 (IBT) on the Test of English as a Foreign Language (TOEFL).

Texas A&M University-Commerce will waive the 500 TOEFL (PBT) or 173 (CBT) or 61 (IBT) score requirements and recommend conditional admission without a TOEFL score for students successfully completing a semester of study with the Texas Intensive English Program (TIEP) in: Level 160 with no grade lower than a B; and Level 150 with no grade lower than an A.

All international students are required to attend international student orientation and undergraduate international students are also required to attend a separate new student orientation for undergraduate students. New international students are also required to check-in with an international advisor at the international office during early check-in or during the afternoon session of international student orientation. Students will provide copies of their immigration documents, emergency contact information, and proof of medical/repatriation insurance at the time of check-in.

All international students are required to provide proof of medical/repatriation for every registered semester. Proof of insurance must be provided before a student can register for courses. Please contact the International Student Services office or visit their website at http://www.tamu-commerce.edu/international/ for more information.
International students who hold F-1/J-1 visas are not eligible for nondegree or provisional student status. Students may be employed part-time (up to 20 hours per week) on campus only. Off-campus employment requires permission from an international advisor and USCIS. Spouses in F-2/J-2 status may attend school only for leisure learning courses. If admitted to a degree program, F-2 visa holders must apply for a change of status to F-1 and be approved for F-1 status before permitted to register for classes.

All international students are to be reported in the Student and Exchange Visitor Information System (SEVIS) with the U.S. Department of Homeland Security. They are also required by those regulations to be enrolled in a full course load for each entire semester. Entering information into SEVIS, monitoring of these regulations, and questions regarding international student issues are addressed by the Office of International Student Services. Visit http://www7.tamu-commerce.edu/international/ or phone 903-886-5097, fax 903-468-3200, E-Mail: intl_stu@tamu-commerce.edu

Admission Deadlines for international Applicants

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**Graduate Students**

Admission to the Graduate School is under the direction of the Dean of Graduate Studies and Research. See the Graduate Catalog for procedures and practices or www.tamu-commerce.edu/gradschool/

**Texas Success Initiative (TSI)**

As an undergraduate attending a state supported university, all students must take an assessment or be exempt from assessment according to the exemptions below prior to enrolling in college level courses. Students without assessment scores because of exemptions that are not test or grade based must take a placement test to determine entry level in math and English courses.

You may submit scores from the THEA (Texas Higher Education Assessment), COMPASS, ACCUPLACER or ASSET to satisfy the assessment requirement. Students are responsible for providing proof of exemption and will be considered assessment required until documentation is provided of state exemption.

Assessment exemptions:

1. ACT scores—Composite 23; English 19 or Math 19—no older than 5 years
2. SAT scores—Composite 1070; Verbal 500 or Math 500—no older than 5 years
3. TAKS scores—2200 Math or 2200 English/Language Arts with a 3 writing subscore
4. Received an associate degree or baccalaureate degree from a Texas public institution.
5. Out-of-State/private institution transfer who has satisfactorily completed college level work with a “C” or better in areas of reading, math, and writing.
6. Has met readiness standard at another Texas public higher education institution—“C” or better in developmental course work
7. Serving in active military.
8. Serving as a member of a reserve component of the armed forces for at least three years preceding enrollment.
9. Honorably discharged, retired, or released from active duty in military on or after August 1, 1990.

Institutions are allowed by the Texas Success Initiative to establish placement requirements above the state minimums listed above. Contact the Office of the Dean of University College for additional information.

**Approved Reading Courses**

- History 1301, 1302
- English 2326, 202, 2331, 204
- Political Science 2301, 2302, 220, 221
- Psychology 2301
- Sociology 1301

**Approved Writing Courses**

- English 1301, 1302

**Approved Math Courses**

- Math 1314, 1324, 179
- Any higher-level math course beyond 1314 or 1324

A math placement exam is available if you are trying to place into a math class at a higher level than you are currently placed. This includes attempting to place from a developmental level class into College Algebra or from College Algebra into Pre-Calculus or Calculus. Call the Office of Student Assessment and Evaluation for further details.

**All Transfer students from other Texas public institutions who have not passed all sections of an assessment or have not met the TSI readiness standard will be required to take appropriate developmental courses.** Transfer students can meet the TSI readiness standard by transferring approved courses in the three skill areas with a grade of “C” or better.

If you are in need of an assessment or have questions concerning retaking an assessment, you will need to contact the Office of Student Assessment at 903-886-5122.

Students with a documented learning disability may apply for assistance with the Office of Disability Resources and Services at 903-886-5835.

**Basic Skills Policy**

All students must enroll in and complete an English course and a Mathematics course until the basic skills requirements of English and Mathematics are met (Eng 1301 and Math 1314 or Math 1324 or Math 179). The student must remain continuously enrolled and may not drop a basic skills requirement course from their schedule. Contact the Dean of University College with questions at 903-886-5878.

**Credit by Examination**

A&M-Commerce awards undergraduate credit on the basis of a variety of local and nationally available examinations. The examinations include: (1) the Advanced Placement Examination (AP); (2) the College Level Examination Program (CLEP); (3) the International Baccalaureate (IB) program; (4) the Defense Activity for Non-Traditional Educational Support Examinations
DANTES; (5) The Scholastic Achievement Test (SAT); (6) the American College Test (ACT) of the American College Testing Program; and (7) locally administered departmental exams.

The Advanced Placement (AP) program provided by the College Board enables students to enroll in challenging college-level studies while they are still in high school and to obtain college placement, credit, or both, on the basis of their performance on rigorous AP examinations. AP exams are given nationally at designated high schools during the month of May. AP exams are graded on a scale of 0-5. A score of 3 or higher is needed for credit.

The CLEP program administered by the College Board and ETS helps students gain credit for prior knowledge and, subsequently, enroll in advanced courses more quickly. CLEP offers exams which cover areas of Business, Composition and Literature, Foreign Languages, History and Social Studies, Science and Math. CLEP exams are scored on a scale of 0-80. Upon making an acceptable score as determined by Texas A&M-Commerce, the student is awarded a set number of credit hours in a course equivalent to the subject area in which they took the CLEP exam.

The International Baccalaureate (IB) program is a rigorous pre-university program available worldwide through the International Baccalaureate Organization leading to assessment in six subject areas (Best Language, Second Language, Individuals and Societies, Experimental Science, Mathematics and Computer Science, and the Arts). The curriculum encourages critical thinking, community service, individual research, and inquiry into the nature of knowledge. The subject exams are scored on a 0-7 scale by a panel of international examiners. A minimum score of 4 is required to be considered for credit.

A matrix of all credit-by-exam programs including the exam titles, course equivalents, number of semester hours credited, and required scores can be obtained through Student Assessment.

All credits by examination is subject to the following guidelines:

1. Credit earned by examination may not be used to reduce in residence or advanced hour degree requirements established by A&M-Commerce.
2. Credit earned by examination is not included in the computation of grade point averages.
3. It is the responsibility of the student to present official scores to the Office of Student Assessment for submission of the appropriate paperwork to the Office of the Registrar for posting of credit on the student’s transcript. Credits earned by exam will be recorded on the student’s permanent record upon successful completion of at least 12 credit hours of academic work at Texas A&M University-Commerce.
4. Credit for courses by exam received at another college or university will be accepted in transfer upon receipt of an official transcript.
5. Standards for awarding credit by exam for courses are set by the academic department.
6. Students may repeat a course for which credit was earned by exam by enrolling in a regularly scheduled class. The grade will replace the credit earned by examination.
7. Fees for credit by examinations have been established by the Student Assessment Office. Fees vary by examination.

Applicability to a Degree Program

Persons achieving credit by one or more of the above methods should work closely with the faculty mentor within the major department to plan the completion of the degree program. Applicability to a degree program of credit earned through non-traditional manner will vary according to the major chosen.

Correspondence concerning testing programs should be addressed to the Office of Student Assessment, Texas A&M University-Commerce, Student Access & Success Center, room 169, Commerce, Texas 75429

Credit for first semester College English composition should be requested if any of the following criteria are met:

1. SAT Composite score of 1270 or higher and Verbal section score of 630 or higher (scores from April 1995 or after);
2. ACT Composite score of 26 or higher and English section score of 29 or higher; or
3. Advanced Placement (AP) Language and Composition exam or Literature and Composition exam score of 3 or higher.**

**Credit for first and second semester College English composition may be granted with an AP score of 4 or higher.

Credit for College Algebra should be requested if any of the following criteria are met:

1. SAT Composite score of 1270 or higher and Verbal section score of 630 or higher (scores from April 1995 or after);
2. ACT Composite score of 26 or higher and English section score of 29 or higher; or
3. Advanced Placement (AP) Language and Composition exam or Literature and Composition exam score of 3 or higher.

**Credit for first and second semester College English composition may be granted with an AP score of 4 or higher.
1. SAT Composite score of 1270 or higher and Math section score of 650 or higher (scores from April 1995 or after); or
2. ACT Composite score of 26 or higher and Math section score of 30 or higher.

Credit for first semester Biological Sciences should be requested if the following criteria are met:

ACT Composite score of 26 or higher and a Scientific Reasoning score of 30 or higher.

Correspondence concerning Credit-by-Exam should be addressed to: Office of Student Assessment and Evaluation, Student Access & Success Center, room 169, Commerce, Texas 75429; Telephone 903-886-5122; Fax 903-468-3210.

Undergraduate Non/Traditional Education

Texas A&M University-Commerce students may receive college credit by examination and/or advanced placement. In some instances, credit may be obtained in more than one of these areas.

In-Service Training

Credit can be granted for educational experiences such as in-service training, institutes, etc., of governmental agencies and private business. The student may have his experiences evaluated if they included at least 18 hours of lecture/discussion-type activity or 54 hours of contact in laboratory-type instruction and are a program or course recommended for college credit by the American Council on Education in the latest edition of the National Guide to Educational Credit for Training Programs. Application should be made in the Office of Undergraduate Admissions.

Military Service Credit

Limited credit may be considered for military-technical courses listed for credit in the latest edition of A Guide to the Evaluation of Educational Experiences in the Armed Services. The veteran should contact the Office of Undergraduate Admissions for evaluation of credits.

Students who have completed a continuous active duty period of six months or more with the United States Military Services (Air Force, Army, Coast Guard, Marine Corps, Navy) will be granted one semester hour of credit for physical education activity for each six months of duty up to a maximum of four hours credit. For consideration of physical education credit for military service the student should submit a copy of DD Form 214 to the Transfer Admissions Office.

Technical Education

Credit may be obtained through regionally accredited technical educational programs, including work completed in a teaching hospital which is accredited through the appropriate national agency of the field in which credit is sought. Courses in an accredited Associate of Applied Science degree program may be accepted for transfer if applicable to the student’s degree plan, and the student has completed requirements and received the Associate of Applied Science degree. Other technical-vocational courses are accepted when recommended by the appropriate department head at A&M-Commerce. Students should contact the Admissions Office for details.

Academic Fresh Start

Senate Bill 1321 entitles residents of this state to seek admission to public institutions of higher education without consideration of courses undertaken ten or more years prior to enrollment. This bill has been called the “right to academic fresh start” and it gives students the option of electing to have coursework taken ten or more years prior to the starting date of the semester in which the applicant seeks to enroll either counted as usual or ignored for admission purposes. Applicants who elect to apply for admission under this law and who are admitted as students may not receive any course credit for courses undertaken ten or more
years prior to enrollment. The Admissions Office may be contacted for further information regarding academic fresh start. Academic fresh start can only be applied for and granted prior to initial enrollment.

First-Year Success Seminar
The First-Year Success Seminar (FSS) is a one-hour required course, Theory and Application of Learning and Critical Thinking. Success in the first-year of college requires a significant adjustment to new academic and intellectual challenges. The course assists students in meeting these challenges. Concepts studied include perception, memory, creativity, and problem solving as they relate to critical thinking. The effects of attitudes, values, logical fallacies, and thinking errors on critical thinking and problem solving are examined. Assignments require students to apply critical thinking skills and other essential academic skills to real-life problems. The course is taught under the prefix CAS 111 for students majoring in disciplines in the College of Arts and Sciences, CBT for students majoring in disciplines in the College of Business and Technology, CED for students majoring in the fields of education or human services. Students who have not declared a major should enroll in one of the specially designated sections for them. This requirement can also be met by completing Ag 100 or BSc 111 for students majoring in those disciplines.

Regents' Scholars Program

Welcome to the Regents' Scholars Program (RSP)

What is RSP?
Regent's Scholars Program provides outstanding freshmen a four-year scholarship roughly equivalent to full tuition. The program allows students to pursue a bachelor's degree in their chosen field while developing their awareness of international issues and cultural contrasts. In addition, RSP provides students with leadership training and experience that will allow them to have a positive impact upon the lives of others on campus, and in their future profession. Thirty students each year are admitted to the program.

Qualifications
To qualify for RSP, an applicant must be accepted to the University and proceed through the Honors College application and Interview process. At the end of this process fifty students will be offered Honors College scholarships and thirty students will be offered the Regents scholarship. The basic requirements for Honors College are:

ACT Composite or 27 or higher; SAT (Critical Reading and Math) of 1200.
Graduation in top 10% of high school class.

Expectations
To maintain the RSP scholarship, a student must earn 3.25 GPA each semester. Students must be enrolled full-time at the University. RSP students must live on campus their first year as a part of a living-learning community created around the program. Students wishing to live on campus in subsequent years will be grouped together in student housing to keep the community together.

All RSP students must sign and abide by Regents' Scholars acceptance agreement and code of conduct. In recognition of the University's investment in their education, Regents Scholars must contribute to the intellectual, social and cultural life of the campus and Commerce-communities through campus and community service.

Finally, Regents' scholars must complete the RSP academic program which includes specific core curriculum (University Studies) upper-division, leadership and foreign language courses.
Regents' Scholars' academic program includes an International affairs and global awareness focus. Part of that focus in foreign language training and a travel component emphasizing experience of another culture while earning courses credit and/or participation in service learning.

The most unique, life-changing aspect of this program is the opportunity for a study-abroad experience the summer after completing the junior year. Financed by a combination of scholarships, leadership projects, and service opportunities, these travel experiences earn students academic credit and a memorable foreign cultural experience.

RSP students may opt to graduate "With Honors" by completion of an Honors Thesis and seven credit hours of honors program requirements.

For questions concerning the Regent's Scholars Program, contact the Dean of University College at 903-8865878

**First-Year Leadership Class (FLC)**

FLC is a small group of freshmen students who want to go above and beyond in their leadership role on campus. FLC is a three hour class in which students develop and learn leadership skills that they can use during and after college. Members of FLC are eligible to live on a special floor in one of the University residence halls as part of a residential learning community (requires application). Contact the office of the Dean of University College with questions 903-886-5878.

**International Studies Opportunities**

After completing their freshman year, students who have participated in Mayo college are eligible for a special scholarship to travel and study abroad as part of the university's International Studies Program.

**E-Mail for University Communication**

1. Electronic mail or e-mail is considered an official means of communication at Texas A&M University-Commerce.
2. Each student will be assigned a university e-mail address when his or her application for admission to the university is processed. This e-mail address will remain active throughout the student’s academic career. E-mail accounts will expire after one long semester in which the student is no longer enrolled at Texas A&M University-Commerce.
3. Students are expected to monitor their official A&M-Commerce e-mail accounts regularly. The University recommends checking e-mails at least once per day. Students should report any problems with e-mail accounts or access to e-mail to the A&M-Commerce Technology Services Help Desk at 903-468-6000.
4. Requests to substitute non-university e-mail addresses for purposes of official communication will not be honored.
5. Electronic mail is subject to the same policies regarding information disclosure as other methods of communication. The privacy of personally identifiable information must be protected under the Family Rights and Privacy Act of 1974 (FERPA). The confidentiality of e-mail cannot be assured and any confidentiality may be compromised by access consistent with applicable law or policy, including this Policy, by unintended redistribution or due to current technologies inadequate to protect against unauthorized access. Students, therefore, should exercise extreme caution in using e-mail to communicated confidential or sensitive matters, and should not assume that their e-mail is private or confidential. Examples of confidential or sensitive information include, but are not limited to: drivers license numbers, credit card numbers, social security number, grades, current or past academic history, medical information and medical history, criminal history, personal bank account numbers, and payroll information other than gross pay.

**Registration (MyLeo)**

Registration is conducted for each semester prior to the beginning of the semester. MyLeo allows eligible students to register via the Internet. Students can access MyLeo through https://leo.tamu-commerce.edu. Students eligible to use MyLeo to register are graduate students, and continuing undergraduate students who have completed 24 credit hours, are Basic Skills complete, and have officially declared a major.
All new freshman students will be registered by their Success Coach until the meet the criteria above. New transfer students will be registered by either a Success Coach or Faculty Mentor as appropriate for at least their first semester.

**Tuition and Fees**

Tuition and fee rates are set by the State Legislature and The Texas A&M University System Board of Regents. Current fee schedules are available at the Admissions Office, Financial Services, and online through MyLeo for the particular semester in which you plan to enroll.

Tuition and fees during registration periods may be estimated and are subject to change. All University charges are due at the beginning of each semester. During the fall and spring semesters students can enroll for an installment payment plan. The payment plan is offered at a fixed charge but additional charges may accrue if payments are not made in accordance with the terms of the plan.

A $10 general property deposit shall be collected from each student to insure against losses, damages, and breakage in libraries and laboratories. The deposit shall be returned on the apparent withdrawal or graduation of a student.

The audit fee is the same as for credit courses (refer to procedure for auditing).

Tuition and fees collected for courses from which students drop within the first 12 days of a fall or spring semester or within the first four days of a summer term will be refunded, provided the student remains enrolled at the institution for that semester or term and has paid tuition in full.

Revenues from the designated tuition portion of the tuition rates can be for the specific purposes of providing or making available to the student any property, buildings, structures, activities, services, operations or other facilities, or for the retirement of debt service on institutional plant or on renewals, replacement, or additions to the institutional plant. Designated tuition revenues may also be used for general financial aid purposes.

The Texas Legislature and the Coordinating Board, Texas College and University System, have established guidelines for determining residency status. Texas residency for tuition purposes is generally obtained by working in Texas for 12 months immediately prior to enrollment in any college or university, by being a dependent of a Texas resident, or by being classified as a Texas resident for the first five of the six years immediately preceding registration. Complete regulations are available in the Office of Admissions and School Relations.

**Limitation on In-State Tuition Rates for Some Undergraduates**

New undergraduate students enrolling in an institution of higher education in Fall 1999 or afterward are subject to the conditions of Senate Bill 345 passed in the 76th Legislative Session. This law states that a resident undergraduate student whose attempted hours exceeds, by at least 45 semester hours, the number of hours required for completion of the degree program may be charged tuition at a higher rate. The higher rate will not exceed the rate charged to non-resident undergraduate students. A resident student is one who pays the in-state rate for tuition purposes.

First time undergraduate students who enroll in Fall 2006 and thereafter will be charged tuition at a higher rate if they exceed 30 semester credit hours over that required for a degree program. Courses dropped or withdrawn are counted as attempted hours and count towards the 30 and 45-hour rule.

**Limitation on the Number of Courses that may be Dropped under Certain Circumstances by Undergraduate Students**

Section 51.907 of the Texas Education Code states than an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education. This statute was enacted by the State of Texas in spring 2007 and applies to students who enroll in a public institution of higher education as first-
time freshmen in fall 2007 or later. Course(s) dropped after the census date of a semester will be counted toward the six-course limit.

**Repeated Courses (Three-Peat Rule)**

Enacted in the 78th Legislative session, HB1 mandates that students repeating a course for a third or more time, will be subject to an additional fee for the repeated course. Students enrolling for a course for the third time will be assessed a higher fee beginning Spring 2005. Courses dropped or withdrawn are counted as attempted hours and count towards the three-peat rule.

**Tuition Rebates for Certain Undergraduates**

Senate Bill 1907 modified the Education Code to create a tuition rebate program for undergraduate students who complete their degrees after attempting not more than three hours more than the number required.

The purpose of this program is to provide tuition rebates that will provide a financial incentive for students to prepare for university studies while completing their high school work, avail themselves of academic counseling, make early career decisions, and complete their baccalaureate studies with as few extraneous courses as possible. Minimizing the number of courses taken by students results in financial savings to students, parents and the state.

To be eligible for rebates under this program, students must meet all of the following conditions:

1. They must have enrolled for the first time in an institution of higher education in the Fall 1997 semester or later;
2. They must have received a baccalaureate degree from a Texas public university;
3. They must have been a resident of Texas and entitled to pay resident tuition at all times while pursuing the degree, and
4. They must have attempted no more than three hours in excess of the minimum number of semester hours required to complete the degree under the catalog under which they were graduated. Hours attempted include transfer credits, course credit earned exclusively by examination, courses that are dropped after the official census date, and for-credit developmental courses.

The Taxpayer Relief Act of 1997 contains provisions that may impact students and parents of students attending universities as well as requiring additional tax reporting at calendar year-end by universities. Two specific tax incentives provided under the Act are the Hope Scholarship Credit and Lifetime Learning Credit.

Additional information about these educational tax credits can be obtained from your tax advisor. Eligible students can apply at the Registrar’s Office, when applying for graduation. Application for the tuition rebate must be submitted to the Registrar’s Office the same semester the degree is conferred. This is not waivable. Contact the Graduation Coordinator for questions.

**Special Fees**

Motor vehicle operation and parking permits are issued for the academic year. They are $22 if purchased in the fall, $18 in the spring, and $13 in the summer. All permits expire August 31 of each academic year.

- Diploma fee (payable when applying for degree)—$40
- Certificate—Fee based on type of certificate earned.
- Late registration fee—$50
- Lab fees—$5 to $30
- Course fees—$3 to $1,200
- Installment Payment Plan fee—$17
- Late Installment Payment fee—$20
- Returned Check fee—$20
- Academic Achievement Seminar—$45 per semester
Residents of States Other than Texas

A non-resident student is legally defined to be a student of less than 18 years of age living away from his family and whose family resides in another state or whose family has not resided in Texas for the 12 months immediately preceding the date of registration; or a student of 18 years of age or older who resides out of the state or who has not been a resident of Texas 12 months immediately preceding the date of registration. The responsibility of registering under the proper residence is placed upon the student. It is his duty at or before registration, if there is any possible question of his right to legal residence in Texas under the state law and the university rules, to raise the question with the Admissions Office and have such question settled prior to registration. There can be no change of residence status except upon express authorization by the director of the Admissions Office. Attempts on the part of a non-resident to evade the non-resident fee will be taken seriously and may lead to expulsion. Out-of-state students should contact the Office of Admissions (903-886-5081) or the dean’s offices for testing requirements prior to enrollment.

Legislative approval has been given for a separate tuition rate for Arkansas, Oklahoma, and Louisiana residents based on reciprocity agreements with universities in those states. Two types of tuition has been established: Bordering Oklahoma and Arkansas counties and Louisiana parishes to Texas—In-state, Texas resident, tuition. All other counties in Oklahoma and Arkansas and parishes in Louisiana—Reduced out-of-state tuition for undergraduates.

Hazlewood Act for Veterans

Many veterans (and some veterans’ dependents), who do not qualify for federal educational benefits, may be eligible for tuition exemptions for up to 150 semester hours of academic course work under the Texas Hazlewood Act, if they were residents of Texas at the time they entered the armed forces, are now residents of Texas, have served on active duty for at least 181 days, and have an honorable discharge from the service.

The Hazlewood Act application can be picked up at the Veterans' and Military Services Office in the Student Access and Success Center room 133. To establish eligibility for the exemption, veterans must complete an application, provide a copy of their discharge papers (DD Form 214), and a statement from VA establishing their ineligibility for veterans educational benefits.

Please submit all paperwork as early as possible - prior to the census date of each semester - so that the Veterans & Military Services Office can complete the process of establishing your eligibility before your tuition and fees are due.

Children of Certain Disabled Public Employees

Children of certain firefighters, peace officers, employees of the Texas Department of Corrections, and game wardens who have suffered injury resulting in death or disability sustained in the line of duty are exempt from payment of all dues, fees, and charges. Application for this exemption should be made to the Student Services Division, Higher Education Coordinating Board, P.O. Box 12788, Austin, Texas 78711.

Hearing Impaired and Visually Impaired Students

Certain hearing impaired and visually impaired persons as defined by law who are Texas residents are eligible for exemption from payment of tuition and fees. Students who are eligible must be certified by one of the following agencies: Texas Rehabilitation Commission; Texas Commission for the Blind; and the Texas Commission for the Deaf and Hearing Impaired.

Good Neighbor Scholarship

Certain native-born students from other nations of the American hemisphere may be eligible for exemption of tuition following approval of the Texas Higher Education Coordinating Board. Individuals requesting this exemption should contact John Mark Jones, Director, International Student Office at A&M-Commerce (903-468-8144).
Valedictorian Exemption

The highest ranking graduate of each accredited Texas public high school is eligible for an exemption from tuition for both semesters of the first regular session immediately following his graduation. When, in the opinion of the institution’s president, the circumstances of an individual case (usually military service) merit such action, this exemption may be granted for any one of the first four regular sessions following that individual’s graduation from high school. Certificates of eligibility are issued by graduating high schools.

Children of Prisoners of War or Persons Missing in Action

Dependent children of any person who is a legal resident of Texas on active duty as a member of the armed forces of the United States, and who at the time of registration is classified by the Department of Defense as a prisoner of war or as missing in action, are eligible for exemption of tuition and fees. Proof from the U.S. Department of Defense must be provided.

Students in Foster or Other Residential Care

A student is exempt from the payment of tuition and fees if the student was in a foster home or other residential care under PRS conservatorship on or after:

1. The day before their 18th birthday; or
2. The day the youth graduated from high school or received a GED; or
3. The day of the youth’s 14th birthday, if the youth was also eligible for adoption on or after that day. (This includes youth age 14 and older who are adopted or for whom parental rights have been terminated.)

To be eligible, youth must enroll as an undergraduate student no later than:

1. Three years after being discharged from foster or other residential care; or
2. Three years after receiving a high school diploma or GED, whichever occurs first; or
3. The youth’s 21st birthday.

Application for this exemption should be made in Financial Services prior to registration.

AFDC Recipients

Tuition and fees will be waived for one year for students who received AFDC benefits for at least six months as a dependent child in the last year of high school. Application for this exemption should be made in Financial Services prior to the student’s registration. Proof of eligibility from Texas Department of Human Services is required.

Early High School Graduation Scholarship Exemption

Qualifying students who complete high school in 36 months or less will be exempted up to $2,000 in tuition, starting any time after graduation under eligible conditions. Students interested in exercising this exemption should contact the Student Services Division, Texas Higher Education Coordinating Board, P. O. Box 12788, Austin, Texas

Certified Education Aide Exemption

Qualifying students will be exempted from tuition and mandatory student fees. To be eligible, students must be employed as a certified educational aide, resident of Texas, and at least 2 years of experience working in a Texas public school classroom, and currently enrolled in classes leading to teacher certification. Required Documentation: Students apply through the Financial Aid Office of the University or Coordinating Board (1-800-242-3062, ext 6387). If approved, Coordinating Board notifies the university.
Children of Deceased Texas Veterans Exemption

Qualifying students will be exempted from tuition and mandatory student fees, except for student service fee and property deposit. Eligible students are dependents of Texas veterans killed in action or died while in service, or whose death was directly caused by illness or injury connected with service in the armed forces. Required documentation: Official documentation from the military, indicating eligibility.

Withdrawal

A student wishing to withdraw from all courses before the end of a semester or summer term for which he/she is registered must clear his record by filing an application for voluntary withdrawal on a form which can be secured online at: Withdrawal Form or from the Office of the Registrar. This is a withdrawal from the semester, not the university.

This action must be taken by the date stated in the Academic Calendar as the last day to drop a class or withdraw. Any student who withdraws from the University is subject to the conditions outlined in the section regarding Scholastic Probation or Suspension. It is the students responsibility to withdraw from classes if they do not plan to attend during the semester in which they have enrolled. A student has one year from the first day of a semester to appeal a withdrawal refund. Courses withdrawn are counted as attempted hours and count towards the three-peat, 45-hour and 30-hour rule.

Refund of Fees

A student officially withdrawing will receive a refund of his fees according to the following scale:

*Class days refer to the university Class Days, not particular class days. **For example: If a class meets MWF, the 12th class day is not the 12th day of the students actual class, it is the 12th day of the University Class Days. See the Academic Calendar for specific date.

**Sixteen-Week Fall/Spring Semester:**

- 100 percent prior to the first class day of the semester
- 80 percent during the first five class days of the semester
- 70 percent during the second five class days of the semester
- 50 percent during the third five class days of the semester
- 25 percent during the fourth five class days of the semester
- No refund after the fourth five class days of the semester

**Thirteen-Week Semester:**

- 100 percent prior to the first class day of the session
- 80 percent during the first, second, third and fourth class days of the session
- 50 percent during the fifth, sixth, seventh and eighth class days of the session
- 25 percent during ninth, tenth, eleventh and twelfth class days of the session
- No refund after the twelfth class day of the semester

**Twelve-Week Semester:**

- 100 percent prior to the first class day of the session
- 80 percent during the first, second, third and fourth class days of the session
• 50 percent during the fifth, sixth, seventh and eighth class days of the session
• No refund after the eighth class day of the semester

**Ten-Week Semester**:

• 100 percent prior to the first class day of the session
• 80 percent during the first, second, third and fourth class days of the session
• 50 percent during the fifth, sixth, seventh and eighth class days of the session
• No refund after the eighth class day of the semester

**Five, Six, Seven & Eight-Week Semester**:

• 100 percent prior to the first class day of the session
• 80 percent during the first, second, third and fourth class days of the session
• 50 percent during the fifth, sixth, seventh and eighth class days of the session
• No refund on the seventh day of class of the session and thereafter.

**Four-Week Semester**:

• 100 percent prior to the first class day of the summer session
• 80 percent during the first, second or third class day of the summer session
• 50 percent during the fourth, fifth, or sixth class day of the summer session
• No refund on the seventh day of class of the summer session and thereafter

**Three-Week Mini Semester**:

• 100 percent prior to the first class day of the session
• 80 percent during the first and second class days of the session
• 50 percent during the third and fourth class days of the session
• No refund after the fourth day of class and the session thereafter

**Thirty Two-Week Semester**:

• 100 percent prior to the first class day of the semester
• 80 percent during the first five class days of the semester
• 70 percent during the second five class days of the semester
• 50 percent during the third five class days of the semester
• 25 percent during the fourth five class days of the semester
• No refund after the fourth five class days of the semester

**Refund Information**:

• Refunds will be the applicable percentage of the total fees due for the semester, less any amount not paid.
• If a scheduled course of instruction fails to materialize, by reason of lack of required students, all tuition for same will be refunded. Late fees and installment fees are not refunded.
• No refunds will be made unless application is made within the same school year as withdrawal.
• No refunds will be made on auditor's fees.

Withdrawal refunds for students receiving federal funds is based on how much Title IV aid a student has received and not earned at the time of withdrawal. The amount of aid earned is calculated on a pro-rata basis through 60 percent of the term. Contact the Financial Aid Office before withdrawing for additional information about this new law.
Overdue Financial Obligations

All accounts (tuition/fees, parking citations, loans, housing and meals charges, etc.) must be paid when due. Before the end of each semester or term, each student should determine that all accounts are paid. Non-payment of any such accounts will be entered on the student’s record, and the Registrar’s Office will withhold any transcripts, diplomas, and other benefits until the obligation is discharged. Overdue financial obligations are subject to late fees and interest in addition to a hold on students records. Past due accounts may be sent to outside collection agencies. If such action is required, students may become liable for additional fees or charges as allowed by law.

Transcript of Credits

A transcript fee in the amount of eight dollars ($8) is charged to all students each semester as part of tuition and fees. Official transcripts are provided at no charge to all current and former students.

Academic Procedures

Click on any of the following links for information:

- Grades—Their Meaning and Value
- University College Success Coaches
- Class Attendance Rule
- Scholastic Probation and Suspension
- Bachelor’s Degree Requirements

The university year is divided into a long session of two semesters and a summer session of two terms.

Grades—Their Meaning and Value

<table>
<thead>
<tr>
<th>Grade Marks</th>
<th>Grade Meaning</th>
<th>Grade points Per Semester Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Passing (Minimum)</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
</tr>
<tr>
<td>X</td>
<td>Incomplete</td>
<td>0</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>0</td>
</tr>
</tbody>
</table>
### Passing Grades: A, B, C, D, S
### Failing Grades: F, U
### Grades of S, and U do not affect the GPA.
### Remedial Grades: RA, RB, RC, RD, and RF are grade symbols appearing on the academic transcript to indicate remedial courses only. Remedial grades do not calculate into the grade point average and do not apply toward earned hours.

The bachelor’s degree will not be conferred upon any student whose total grade average is less than “C” (2.00). Transfer students must also have a “C” average on work completed on this campus to qualify for the bachelor’s degree.

A grade of “D” is the minimum passing grade for credit in a course.

Students who officially withdraw from school prior to the date stated in the current Schedule of Classes will receive a mark of “W”.

The grade “F” means failure.

Students, who because of circumstances beyond their control, are unable to attend classes during finals week or the preceding three weeks will, upon approval of their instructor, receive a mark of “X” (incomplete) in all courses in which they were maintaining passing grades.

When an “X” is given for a grade in a course, the credit hours are not included for one semester (exclusive of summer) in calculating the grade point averages. Grades of “X” earned during the spring or summer are to be completed by the end of the following fall semester. If the “X” is not removed by that time, the grade becomes an F, and the hours are included in the number of hours attempted.

Recording a grade of “X” requires the filing of a plan for completion. The plan will be submitted with the official grade record sent to the department head who will forward it to the Dean’s office. The plan will include why the grade was given and steps necessary for the student to receive the final grade.

A grade of “IP” (In Progress) will be used for courses that are scheduled over more than one semester. The grade of IP will not be computed in the grade point average and will be removed when the final grade is filed by instructor.

A grade of “I” will be given for courses in dissertation and thesis (including undergraduate honors thesis) for all registrations prior to the semester in which the final document is completed. The time limit imposed on the grade of “X” (one semester) does not apply for these courses.

### Computation of Grade Point Averages
All grade point averages will be computed by dividing grade points accumulated by the number of hours attempted, with grades of “X”, “I”, “IP”, “Q”, “W” being excluded.

Repeated Courses

When a course is repeated, only the last enrollment for that course will be used in computing the grade point average. This second grade would be used to determine credit earned for the course. This procedure invalidates the first credit earned in that course. Courses taken before a degree is awarded (regardless of whether the course is applied to the degree) cannot be repeated and the grade point average recalculated once the degree is awarded. While grades of “DF” and “DU” indicate the course was dropped, these grades have the same effect on the GPA as a course that was repeated and completed with a grade of “F” or “U”. "Q" and "W" drops do not count in the GPA and therefore are not marked as repeats.

Any student who enrolls in the same course a second or subsequent time must notify the Registrar’s Office during the semester in which the course is being repeated. Information and a form is located at www.tamu-commerce.edu/registrar_office/gpa.asp. When the semester is completed, the Registrar’s Office will then update the student’s grade average to reflect the duplication of the course.

Enacted in the 78th Legislative session, HB1 mandates that students repeating a course for a third or more times, may be subject to an additional fee for the repeated course. Courses dropped or withdrawn are counted as attempted hours and count towards the “Three-Peat Rule.”

Native GPA

Beginning Fall 2000, all new students who enter A&M-Commerce for the first time will have their cumulative grade point average calculated on courses taken at A&M-Commerce only. Courses taken at other institutions will no longer be considered in the calculation of the A&M-Commerce grade point average.

Good Standing Rule

This policy defines good standing for all undergraduate students enrolled at Texas A&M University-Commerce effective August 1, 1996.

Entering students, (first time enrollees or transfers) who have been fully admitted (without any type of probation provision or restriction) will be considered in good standing. A student is in good academic standing if, and only if, he or she has a cumulative grade point average of at least 2.00 and is not on disciplinary suspension. Students placed on academic probation or suspension must attain a cumulative grade point average of 2.00 or higher to be in good standing, regardless of whether he or she is allowed to reenroll. For good standing status, an undergraduate student must maintain a 2.0 GPA and be in compliance with ethical and professional standards as determined by the student’s academic department. The Dean of Enrollment Management & Retention is responsible for the good academic standing designation and reporting.

President’s Honor Roll and Dean’s List

Undergraduate students who maintain sufficiently high academic averages each semester are placed on the University’s special honor rolls—the President’s Honor Roll and the Dean’s List. The Dean’s List includes the names of those undergraduate students, who, during the semester, have been registered for not less than 12 hours of academic work, not counting non-academic service courses, and who have maintained a minimum semester academic grade average of at least 3.25. The President’s Honor Roll includes the names of those undergraduate students who have met the above requirements and have maintained a semester academic grade average of 4.00.

Academic Distinction
Undergraduate students completing the requirements for baccalaureate degrees with exceptional scholastic averages may be graduated with academic distinction. Students are recognized at the graduation ceremony with academic distinction based on grade point average calculations at the end of the previous term. In determining eligibility for recognition, the grade point average will be calculated based on all hours attempted, including all transfer work, and the native grade point average. The lower of the two grade point averages determine the level of attainment. If a student’s last period of enrollment raises his or her average to the level required for distinction, or to a higher level of distinction, the appropriate notation will be made on the academic record and diploma. Likewise, if a student’s last period of enrollment lowers his or her average below the minimum grade point average requirement for distinction, the academic record and diploma will not reflect a distinction level.

The levels of recognition and the grade point averages required for each are: **Summa Cum Laude**, 3.90-4.00; **Magna Cum Laude**, 3.70-3.89; **Cum Laude**, 3.50-3.69.

**Numbering of Courses**

Courses are numbered according to the following scheme: Freshman courses are 100-199 inclusive; sophomore courses, 200-299 inclusive; junior courses, 300-399 inclusive; senior courses, 400-499 inclusive; and graduate courses, 500-799. Courses completed at four-year institutions and numbered at the 300 level or above are considered to be advanced. All courses with a semester credit hour other than three are designated with the semester credit hour value.

**Texas Common Course Numbers**

Institutions teach courses that are similar in nature and have been designated by a common number. The common course number, a four-digit abbreviation for the discipline and a four-digit course number, is to facilitate the transferability of these courses between the participating institutions. The first digit reflects the academic credit; the second digit indicates the semester hour credit; and the third and fourth digits establish course sequence. The common course number is shown in parenthesis to the right of the Texas A&M University-Commerce course number in departmental course descriptions. A listing of all common courses numbers adopted by A&M-Commerce as well as institutions participating in the TCCNS available in the back of this catalog. In that section, the common courses which fulfill University Studies requirements are identified with a “US” to the right of the A&M-Commerce course number.

For more information about the Common Courses at A&M-Commerce, please contact the Office of Undergraduate Admissions 903-886-5000. Those currently enrolled at another institution should contact the appropriate departments for information. A complete listing of common courses taught statewide at colleges and universities in Texas is available at www.tccns.org

**Value and Definition of Courses**

The semester hour value of each course is determined by the number of clock hours spent in classwork. Three clock hours per week in lecture or two to three hours per week in laboratory for one semester is the normal amount of classwork required for one semester hour of credit.

**Mid-Term and Final Semester Grade Reports**

Mid-Term and Final semester grades will be updated to the student information system. Students may check the status of their grades by accessing MyLeo at https://leo.tamu-commerce.edu. A PIN (Personal Identification Number) is required to access MyLeo. Grade reports are no longer mailed from the University.

**University College Success Coaches**
University College and its Success Coaches are responsible for advising all undergraduate students new to Texas A&M-Commerce.

First year students are required to consult Success Coaches for advisement until they meet the following conditions:

A. Complete their first academic year at A&M-Commerce
B. Complete twenty-four semester hours of credit bearing courses
C. Complete the University’s basic skills requirements; and
D. Declare a major

All entering transfer students will be advised by a Success Coach until they meet the following conditions:

A. Complete thirty semester hours of credit bearing courses, whether at A&M-Commerce or elsewhere
B. Complete the University's basic skills requirements
C. Declare a major

Students who have met the conditions above will then be referred to the appropriate college and/or department for future advising. Success Coaches will notify each student and their receiving college and/or department at the time that they meet these conditions.

Students and their Success Coaches are partners in meeting the essential learning outcomes that support student success. The partnership requires participation and involvement of both the Success Coach and student. In this partnership both the Success Coach and student have well-defined responsibilities.

**Success Coach Responsibilities—What You Can Expect**

Success Coaches will:

- Effectively communicate the curriculum and graduation requirements for your major and university and college academic policies and procedures
- Encourage and guide students as you define and develop realistic goals
- Provide you with information about strategies for using the available resources and services on campus
- Assist you in understanding the purposes and goals of higher education and its effects on your life and personal goals
- Monitor and accurately document your progress toward meeting your goals
- Be accessible in person, by telephone, e-mail, or web access during posted office hours.
- Assist you in gaining decision making skills and skills in assuming responsibility for your educational plans and achievements
• Maintain confidentiality

**Student Responsibilities—What Your Success Coach Can Expect**

Students have clear responsibilities in this partnership:

- Schedule regular appointments or make regular contacts with Success Coach during each semester
- Come prepared to each appointment with questions or materials for discussion
- Ask questions if you do not understand an issue or have a specific concern
- Enroll in the courses selected for you by you and your Success Coach
- Keep a personal record of your progress toward meeting your goals
- Organize official documents in a advising portfolio that enables you to access them when needed
- Complete all assignments or recommendations from your Success Coach
- Clarify personal values and goals and provide Success Coach with accurate information regarding your interests and abilities
- Become knowledgeable about college programs, policies, and procedures
- Accept responsibility for your decisions

**Expected Student Learning Outcomes for Student Interaction with Success Coaches**

Through the interaction with Success Coaches at Texas A&M University-Commerce,

- Students will be able to articulate a basic understanding of degree requirements.
- Students will be able to articulate a basic understanding of the University’s primary academic tools, policies and procedures.
- Students will be able to articulate a basic understanding of general education core requirements.
- Students will be exposed to the value of life-long learning.

**Class Attendance Rule**

Students are expected to be present for all class meetings of any course for which they are enrolled. Students are responsible for learning about and complying with the attendance policy stated in the catalog, *Student’s Guidebook*, and/or faculty syllabi. Faculty members will provide details on requirements and guidelines for attendance in their classes in their course syllabi. Faculty members will keep students’ attendance records.

Students are responsible for requesting makeup work when they are absent. They will be permitted to make up work for absences which are considered by the faculty member to be excusable. The method of making up this work shall be determined by the faculty member.

The student is responsible for providing the faculty member reason(s) for his/her absence. The faculty member then determines the validity of the reason(s) for the absence and whether the student is to be excused for the absence. Faculty members may consider the following reasons for absence as excusable.
1. Participation in a required/authorized university activity;
2. Verified illness;
3. Death in a student's immediate family;
4. Obligation of a student at legal proceedings in fulfilling responsibility as a citizen; and
5. Others determined by individual faculty to be excusable (e.g., elective University activities, etc.).

Appeals can be made through normal administrative channels.

A record of excused and unexcused absences will be maintained by a faculty member for reference because financial aid and scholarship programs require attendance records.

Students who have failed any part of the Texas Academic Skills Program (THEA) test are required by the State of Texas to attend developmental courses. Students who do not attend developmental courses or tutorial sessions may be withdrawn from the university.

When requested by the student, teachers will inform the student who has been absent whether makeup work is allowed and whether absences jeopardize the student’s standing in a class.

It is the prerogative of the faculty to drop students from courses in which they have accrued excessive absences as defined in the course syllabus. In such cases, faculty recommend through the department head to the appropriate college dean that a student be dropped from a class. The faculty member will document absences and will make a reasonable effort to communicate with the student prior to recommending the drop. If approved, the college dean will forward the recommendation to the Registrar’s Office.

Students who wish to drop a course or withdraw from the university are responsible for initiating this action.

If a student believes the final grade is unfairly impacted by attendance requirements, an appeal can be made. This appeal process is explained in “Student's Appeal of Instructor’s Evaluation” (Procedure A13.06).

Summons to Administrative Offices

There are times when students may be requested to report to an administrative office. The summons may be transmitted in the form of a letter, telephone call, or by personal messenger. A student who receives a summons is expected to report immediately or on the date scheduled. Failure to do so is a violation of the Student Code of Conduct (#15), and may result in disciplinary actions.

Scholastic Probation and Suspension

11.04.99.R0.06 Undergraduate Scholastic Probation and Dismissal
Effective September 1, 1996
Revised May 12, 2008
Supplements System Policy 11.04

Texas A&M University-Commerce calculates course work based on the institutional GPA to reflect work completed only at A&M-Commerce. Official transcripts reflect the institutional GPA unless the student entered prior to Fall 2000.

Definitions:

- Institutional (native) grade point average: Applies to all students who enrolled Fall 2000 or after. Applies only to coursework completed at Texas A&M University-Commerce.
- Cumulative GPA (institutional and transfer work combined): Applies to students who enrolled in courses at Texas A&M University-Commerce PRIOR to Fall 2000. Applies to all coursework.

1. The regulations concerning probation, suspension, and reinstatement in the university were established by the University Academic Council and are administered by the deans of the colleges. In certain cases where there are extenuating circumstances,
appeals regarding academic probation and suspension may be made to the Academic Affairs Undergraduate Student Suspension Appeal Committee. Refer to procedure 11.04.99.R0.07

2. A satisfactory level of academic achievement is determined on the basis of each student's institutional grade point average calculated on the basis of all academic work attempted, and, if the student is in remediation, on satisfactory progress toward completion of required remedial work. To be eligible for continued enrollment in good standing in the University, a student must maintain a minimum cumulative grade point average of 2.00, and, if in remediation, must pass each required remediation course in no more than one attempt for each course. When a remediation course must be attempted for the second time, the student will be considered to be on probation regardless of his or her grade point average. Students who do not pass a remediation course on the second attempt will be placed on suspension regardless of the grade point average, subject to the requirements of suspension. Upon readmission, each time the same remediation course is attempted and not passed the student will again be placed on suspension.

3. Should any student fail to maintain satisfactory progress toward graduation as specified by these regulations, the student will be permitted to enroll for further work only on academic probation. Students enrolled on academic probation may register for no more than fourteen (14) semester hours (academic, remedial, or physical education activity) in any one semester of the regular academic year. A full summer session (two terms) will be considered equivalent under these requirements to one semester of the regular academic year. Probationary students may enroll for no more than two courses during any term of a summer session or no more than four courses for a full summer session.

4. A student on academic probation will remain subject to the requirements of probation until the institutional grade point average has been raised to the level of satisfactory progress specified above and, if in remediation, must continue to make satisfactory progress toward completion of remedial work as stated above. To qualify for continued enrollment while on probation, however, the student must maintain a semester grade average of at least 2.00. Should any probationary student fail to maintain such a 2.00 semester grade average in the academic courses attempted in any semester of probation, the student will be required to leave the university on academic suspension for at least one calendar year. In cases where there are extenuating circumstances, a student who has failed to maintain the required 2.00 semester grade point average in academic courses to qualify for continuance of probation may be permitted, with the approval of the dean of the appropriate college, to enroll for one additional semester of extended probation. Refer to procedure 11.04.99.R0.07 for further appeal guidelines. Should the student fail again, however, to maintain an adequate 2.00 semester grade point average in academic courses attempted during that semester, the student will be required to leave the university on academic suspension for one calendar year as specified above. After the period of academic suspension, the student will be permitted to enroll again on academic probation. Students wishing to return following completion of the suspension period must reapply to the university and file an appeal with the Academic Affairs Undergraduate Student Suspension Appeal Committee.

5. To ensure that the grade point average on the official record has been updated to account for duplicated courses, any student enrolling for the same course must notify the Office of the Registrar during the semester in which the course is being repeated.

6. Transfer students whose grades at other colleges or universities were unsatisfactory (D or lower) according to the regulations of A&M-Commerce will be placed on academic probation subject to the same requirements as apply to other students on probation. Students on academic suspension from other institutions will not be permitted to enroll at A&M-Commerce until their specified periods of suspension expire.

7. A student must be in residence at A&M-Commerce in order to remove the conditions of probation. If the student attends another college or university, the conditions of probation will not be removed; however, the academic record will be updated to reflect the transfer work. A student, however, who withdraws for a period of at least one calendar year or is suspended for the same period may, upon re-enrollment, petition the dean of the appropriate college to have the unsatisfactory grades eliminated from the calculations of the official institutional grade average. Courses eliminated from the calculation of a student's official grade point average may not be Basic Skills courses (mathematics, English, etc) or courses that apply toward the current major. In addition, this applies only to credits earned at A&M-Commerce (excludes all transfer work).

8. A&M-Commerce reserves the right to deny admission to a student suspended from another college even though the suspension period has expired.

9. Students on academic suspension are not eligible for correspondence or extension courses.
Undergraduate Student Loads

Regular Session

Exclusive of physical activity courses, twelve hours is considered by the institution as a full-time load (Procedure A11.20). However, to graduate in four years, it is recommended students enroll in 15 hours each semester or complete coursework in the summer. Many scholarships specify enrollment in 15 semester hours.

Appropriate administrative staff will use the following guidelines for approving exceptions to the above:

Any student enrolled for student teaching will be limited to a maximum of fifteen semester hours.

An undergraduate student who wishes to enroll for more than 19 hours must have the approval of his academic dean before adding the course. Any student who exceeds the normal load by adding additional course(s) and does not have the appropriate academic dean’s approval will be automatically dropped from that course and notified of this action by the dean.

Students required to enroll in university designated developmental reading, composition or mathematics in any long semester will be restricted to a 14-hour course load, approved by the academic adviser. All approvals for overloads are obtained from the dean of the college in which the student is majoring.

Summer Session

Six semester hours, exclusive of physical education activity, is the normal student load for each summer term. A student may not enroll for two subterm courses simultaneously within the same subterm.

An undergraduate student may schedule one semester hour above the normal load each summer term.

An undergraduate student lacking fifteen semester hours to graduate at the end of that summer and who has an overall “C” (2.00) average may schedule nine semester hours one term with dean’s approval.

Freshmen admitted provisionally will be limited to 10 semester hours, for the entire summer.

An undergraduate student who lacks 30 semester hours to graduate in December may schedule nine semester hours during one summer term only if the fall schedule would include student teaching and if the student has an overall “C” (2.00) average.

A last semester senior who lacks 12 hours or fewer to graduate at the end of the summer and who has an overall “C” (2.00) average may schedule nine semester hours one term with the appropriate dean’s approval.

Any student who exceeds the normal load by adding an additional course(s) and does not have the appropriate academic dean’s approval will be automatically dropped from the course and notified of this action.

For scholastic probation details, see Scholastic Probation and Suspension.

All approvals for overloads are obtained from the dean of the college in which the student is majoring.

Mini Session
Any student registering for classes during the mini term should be aware of the accelerated nature of the class. The maximum load for a mini-term is 3 hours.

**Student Class Schedule Adjustments**

Students are expected to make all necessary adjustments in their class schedules by the fourth class day of a regular semester and the second class day of a summer semester. Eligible students may use MyLeo to process drops and adds. Students may add classes until fourth class day during the Fall and Spring semesters and second class day during the summer terms. Students may drop a class with a full refund (if remaining enrolled) until the twelfth class day during the Fall and Spring semesters and fourth class day during the summer terms.

The student desiring to add a course(s) after the fourth class day of a regular semester or second class day of a summer semester should pick up a drop/add sheet at the Registrar’s Office. The student should proceed to the department(s) where he obtains department/instructor approval and then to the appropriate dean for approval. The drop/add form is then returned to the Registrar’s Office. Students will not be allowed to add classes after the twelfth class day during Fall/Spring or the fourth class day during a summer semester. Students not eligible to use MyLeo should contact their academic advisor.

A drop/add form for courses to be dropped may be obtained at the Registrar’s Office, or is available online at the following website: http://www.tamu-commerce.edu/home/registrar/pdfs/dropaddform.pdf. The student must obtain approval from the department/instructor and return to the Registrar’s Office for processing.

No course may be added to student schedules after the census date shown in the University Calendar, except in very special cases and then only by approval of the instructor and appropriate dean.

After the first twelve days of the Fall/Spring term, or after the first four days of summer term, the Instructor may permit a student to officially drop a class in which the student is not passing. The mini terms will require a withdrawal form to be completed and returned to the Registrar’s Office. The withdrawal form is located online at the following website: http://www.tamu-commerce.edu/home/registrar/pdfs/studentwithdrawal.pdf.

**Effective Fall 2008**, a course dropped after census date in a term will receive a grade of “Q”. Drops with “Q” grade will not affect the GPA overall status, but are counted as attempted hours and count towards the 6 drop rule, three-peat, 45-hour and 30-hour rule. Graduate students are not subject to the six-drop rule, but will have the advantage of the “Q” grade. See the following website for specific dates:

http://www.tamu-commerce.edu/home/registrar/dropadd.asp.

**Auditing Courses**

Students desiring to audit a course may do so with the consent of the instructor and department head. Enrollment for audit courses is not until the first day of classes. The tuition and fees and admission requirements are the same as for credit. Students enrolling for a course for audit must notify the Registrar’s Office prior to completing registration for the course. A student may not change from credit to audit after the twelfth class day during the long session or the fourth class day in a summer term.

**Seniors in Graduate Courses**
A last semester A&M-Commerce senior who lacks 12 hours, or fewer, to graduate and has a grade point average of 2.75 or higher, may enroll for 3 to 6 hours of graduate credit, subject to prior written recommendation from the major department head and approval of the Dean of Graduate Studies and Research. Undergraduate students registering for graduate classes without prior approval will be dropped. Seniors desiring to take Business Administration courses for graduate credit must also have permission from the Director of Graduate Programs in Business Administration. Graduate hours taken cannot apply toward an undergraduate degree. The maximum load for seniors who register for graduate credit is 12 credit hours per semester or six hours per summer term. Students in the BPA/MBA five-year accounting program may be exempt from the requirements for this section with the approval of the department head and the Dean of Graduate Studies and Research.

**Classification Level**

Freshman, sophomore, junior, and senior classification will be granted on completion of a designated number of semester credit hours passed. These are:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>1-29</td>
</tr>
<tr>
<td>Sophomore</td>
<td>30-59</td>
</tr>
<tr>
<td>Junior</td>
<td>60-89</td>
</tr>
<tr>
<td>Senior</td>
<td>90-above</td>
</tr>
</tbody>
</table>

In general, students should take courses at the level of their classification and lower level courses should be completed insofar as possible before upper level courses are taken.

**Planning and Institutional Effectiveness**

The university-wide responsibility for the development, coordination and monitoring the implementation of the University’s institutional effectiveness program including strategic planning, outcomes assessment, follow up on the results of assessment to assure continuous improvement, and institutional research necessary to support these endeavors is the responsibility of the Assistant to the President for Planning and Institutional Effectiveness.

**Assessment of Student Outcomes**

To meet the requirements of accreditation and to provide for continuing academic program development, evaluation, and improvement, the university must assess the effectiveness of academic programs and student academic performance.

**Bachelor’s Degree Requirements**

The University offers 13 recognized degrees on the undergraduate level—the Bachelor of Science, the Bachelor of Arts, the Bachelor of Arts in Criminal Justice, the Bachelor of Science in Criminal Justice, the Bachelor of Arts in Interdisciplinary Studies, the Bachelor of Science in Interdisciplinary Studies, the Bachelor of Business Administration, the Bachelor of Applied Arts and Sciences, the Bachelor of Science in Computer Information Systems, the Bachelor of Fine Arts, the Bachelor of Music, the Bachelor of Professional Accountancy, the Bachelor of Social Work. The curricula leading to a baccalaureate degree are designed to give the student a well-rounded and liberal education with specialized study in one or more fields.

**Requirements for all undergraduate degrees**

A student entering under this catalog must meet the degree requirements listed below or those of a subsequent catalog. However, a student who fails to graduate within five years after admission will be required to meet the degree requirements of a subsequent catalog that is within five years of currency at the time of his graduation.

As required by the Southern Association of Colleges and Schools (SACS), at least 25 percent of the hours applicable to a degree must be earned through instruction by the institution awarding the degree. This rule is effective for students enrolled for the first time at Texas A&M University-Commerce during or after the fall semester 1979.
• Majors, Emphasis, Broad-Field Majors, Minors, and Interdisciplinary Studies Minor. A student must complete a major and a minor, a broad-field major, or two majors in order to be graduated from Texas A&M University-Commerce. Some majors have emphasis areas. All students must take at least six advanced semester hours of work in each of their majors at Texas A&M University-Commerce. Specific course requirements are identified in the departmental sections of this catalog.

A major consists of a minimum of 24 semester hours in one subject field, including at least 12 advanced hours.

An emphasis consists of a minimum of 15 semester hours in a 24-semester-hour major or 18 semester hours in a 36-semester-hour major.

A broad-field major consists of a minimum of 48 semester hours, including at least 18 advanced hours.

A minor consists of a minimum of 18 semester hours in a subject field, including at least six semester hours of advanced courses.

An interdisciplinary studies minor includes 18 semester hours in two or more fields, nine of which are advanced and all of which are outside the student’s major.

• University Studies. A minimum of 43 semester hours in general studies is required for a degree (see University Studies Requirements).

• Junior Level Essay. The Junior Level Essay (JLE), a writing competency exam, is a graduation requirement for all Texas A&M University-Commerce undergraduates. The JLE is administered on two consecutive days in October, February and June at no cost to students. Students are allowed two hours to write on prompts, one each day, that elicit a narrative essay. Essays are rated holistically within two weeks of the JLE administration by an interdisciplinary faculty team. A cumulative score of seven (7) is passing. This requirement may also be met by passing the essay portion of the THEA or alternative test, by passing English 333 or English 341. Distance education students need to contact the Student Assessment Office for optional arrangements.

• Advanced Level Courses. A student must complete at least 36 semester hours at the advanced level, 24 of which must be completed from A&M-Commerce. Credits transferred from a junior college or community college may not be used to satisfy the advanced coursework requirement. A minimum of 60 semester hours must be completed at Texas A&M University-Commerce or another senior level institution. Specific initiatives targeted at facilitating community college transfer to a four-year university are exceptions to this rule. The initiatives include the Bachelor of Applied Arts and Sciences degree program and other degree programs, including students who transfer in with the Associate of Arts in Teaching degree, for which the combined number of hours in the Texas Higher Education Coordinating Board approved transfer core and field of student curricula exceed 50% of total hours required for the degree.

• Residence Requirements. For degree completion, at least 25 percent of credit semester hours must be earned through instruction at A&M-Commerce. Furthermore, at least 24 of the final 30 semester hours must be taken at Texas A&M University-Commerce. Extension and correspondence credits may be used to satisfy residence requirements.

• Fitness and Recreational Activity Requirements. Two one-semester-hour courses in fitness and recreational activity are to be completed during the freshman and sophomore years at A&M-Commerce. For other options, see University Studies Requirements.

• Special Major Requirements. In addition to meeting the above minimum requirements, the student must complete any other special requirements as outlined for each major subject. Effective for all new undergraduate students beginning Fall 1999, a minimum grade of "C" will be required in all undergraduate major courses. This includes all transfer and A&M-Commerce courses in the student’s major area of study.

• Semester Hours. A student must complete a minimum of 120 semester hours, exclusive of English 100 and Math 131, with the following grade point requirements:
  1. an overall 2.00 average;
  2. a 2.00 average on all work completed at A&M-Commerce;
  3. a 2.00 average in each major and minor; and
  4. a 2.00 average at A&M-Commerce in each major and minor.
- **Correspondence and Extension Courses.** No more than 30 semester hours of extension and correspondence combined may apply toward a degree. No more than 18 of these 30 hours may be completed by correspondence. A maximum of 18 semester hours of advanced credit in a major field, when prerequisites have been satisfied, may be earned and counted toward a baccalaureate degree from this institution. Note: The grade from a correspondence course will apply to your Texas A & M University-Commerce GPA.

**Bachelor of Science**

The Candidate for the Bachelor of Science degree must meet all of the requirements specified above.

**Bachelor of Arts**

The Candidate for the Bachelor of Arts degree must meet the requirements specified for the Bachelor of Science degree. In addition, the candidate must complete at least 12 semester hours (4 courses) in one foreign language, or complete six semester hours above the elementary courses if two units of high school credit in the language have been submitted as a part of the regular university admission requirements, or complete three semester hours if he presents three or four high school credits.

A student who holds the Bachelor of Science degree from this university may acquire the Bachelor of Arts degree by completing the foreign languages requirements for the same and surrendering the Bachelor of Science degree.

**Bachelor of Arts or Bachelor of Science in Criminal Justice**

Requirements are the same as for the Bachelor of Science degree with the following exceptions:

The criminal justice major consists of a 58 semester hour broad field program of study. The major includes a balance of criminal justice and advanced sociology courses. Twelve semester hours are electives. No minor is required.

**Bachelor of Arts or Bachelor of Science in Interdisciplinary Studies**

The Bachelor of Science in Interdisciplinary Studies degree (B.S.I.S.) is designed specifically for students who desire the Texas Provisional Teaching certificate in K-8 classrooms. The requirements for the B.S.I.S. degree are the same as for the Bachelor of Science degree with the following exceptions:

A minimum of 43 sh of specified course work in University Studies is required. Course work in the major, Interdisciplinary Studies, requires 42 sh of course work. Students must have completed a minimum of 45 sh of college coursework, have satisfactory scores on the THEA, have an overall GPA of 2.5, and have a 2.5 minimum GPA in coursework in their area of specialization (no grade below “C”) to take courses in the Department of Elementary Education. Students must achieve admission to Teacher Education to be admitted to student teaching. Recommendation for certification is contingent upon completing the degree, maintaining established standards, passing the competency examination (TExES) in teaching field(s) and in professional education.

The requirements for the Bachelor of Arts in Interdisciplinary Studies degree (B.A.I.S.) are the same as for the Bachelor of Arts degree with the following exception: candidates must also meet all requirements for the Bachelor of Science in Interdisciplinary Studies degree.

**Bachelor of Science in Computer Information Systems**
While sharing a common core subset with the Bachelor of Science with a major in Computer Science, the Bachelor of Science in Computer Information Systems emphasizes the application of computers for information processing by organizations. Requirements for the Bachelor of Science in Computer Information Systems degree are the same as for the Bachelor of Science degree with the following exceptions:

Candidates for the non-certification degree must complete a minimum of forty-one semester hours in computer science, eighteen semester hours in required support courses, and a minor from another department (an area of business is recommended).

Candidates for the degree with secondary certification must complete thirty-eight semester hours in computer science, 15 semester hours in required support courses, and the secondary professional development sequence of courses.

**Bachelor of Fine Arts**

The requirements for the Bachelor of Fine Arts are the same as for the Bachelor of Science degree with the following exceptions:

Ninety-one to ninety-five semester hours in art, including a minimum of 36 advanced hours. (See the specific requirements for each Bachelor of Fine Arts). The Bachelor of Fine Arts requires no minor area of study.

**Bachelor of Music**

The requirements for the Bachelor of Music are the same as for the Bachelor of Science degree, with the following exceptions:

Seventy-eight semester hours are required in the major, including 31-33 hours in the emphasis area. No second major field is required for the B.M. Music electives on the B.M. degree vary from 5 hours to 13 hours depending on the emphasis area.

**Bachelor of Professional Accountancy**

The requirements for the Bachelor of Professional Accountancy degree are the same as for the Bachelor of Science degree, with the following exceptions:

The program requires concurrent admission into The Graduate School and the Master of Business Administration degree program. The student earning this degree will graduate with the Bachelor of Professional Accountancy degree and the Master of Business Administration with a Minor in Accounting. Students majoring in professional accountancy will achieve competencies in the undergraduate common body of knowledge of business and the core competencies in the bachelor of business administration degree with a major in accounting. In addition, they will achieve competencies in auditing, advanced financial accounting, advanced income tax accounting, and the competencies outlined in the Master of Business Administration degree. Students working toward the B.P.A. degree should select specific courses as outlined in the Accounting Major in Professional Accountancy section of this catalog to meet these requirements.

**Bachelor of Social Work**

The requirements for the Bachelor of Social Work degree are the same as for the Bachelor of Science degree, with the following exceptions:

Fifty-four semester hours in social work, and 6 hours in psychology and sociology are required. No minor or second major is required.

**Bachelor of Applied Arts and Sciences**

The Bachelor of Applied Arts and Sciences (BAAS) degree at Texas A&M University-Commerce requires the completion of 121 semester hours. The BAAS degree is designed to meet the following student needs:
Persons who hold an Associate (college track) degree from a regionally accredited institution.

Persons who hold an Associate of Applied Arts and Sciences (technical track) degree from a regionally accredited institution.

Persons who have completed at least 39 semester hours of college credit from a regionally accredited institution with a minimum of 21 semester hours in general education (including English Composition, American History and College Algebra or equivalents) and at least 18 semester hours in a career, technical or vocational discipline. The ideal candidate for the BAAS degree is someone that has completed all of the general education and career courses required (79 semester hours) prior to entering the BAAS program at A&M-Commerce.

Persons who have an Associate degree and/or course work in:
- Business, Management, or Marketing
- Engineering Technologies, Technology
- Computer or Information Science
- Security or Protective Services
- Health Profession or Clinical Science

Second Bachelor’s Degree

Holders of a baccalaureate degree from this university or other accredited four-year college or university may be awarded a second baccalaureate degree. All catalog requirements for the second degree must be met including:

1. A minimum of 30 semester hours of credit earned in residence at A&M-Commerce;
2. A minimum of 24 of the 30 semester hours earned must be advanced level;
3. Completion of all requirements for the major, including GPA requirements;
4. Completion of the State of Texas required American History and Political Science courses.

Application for Graduation

The graduation application is available online through your myLeo account during the following time periods: Spring/Fall first three weeks of the semester; Summer first two weeks of semester. Once the application period has ended, your faculty advisor will begin reviewing your application. The faculty advisor will forward the graduation checklist and if needed, the degree evaluation to the dean’s office for review and approval. When the dean (or designee) has approved the graduation checklist and other necessary documentation, the forms will be submitted to the University Registrar.

A $40.00 application fee is required from the student upon submission of the graduation application.

The Graduation Coordinator will notify the student when the graduation application packet is complete. If the student does not fulfill the degree requirements, he or she will be required to cancel the graduation application and reapply (A13.26).

Commencement Participation

Commencement ceremonies recognize academic achievements of students and faculty. While ceremonial in nature, commencement is a time for the university to celebrate a major milestone in the life of the academic community. Participation in commencement at Texas A&M University-Commerce is an earned honor shared among graduates.

Participation in the commencement ceremony is restricted to students who have completed all degree requirements. Commencement exercises are held three times each academic year in May, August and December. Participation in the commencement ceremony does not guarantee conferring of any degree. Degrees are conferred based on official grades received in the Registrar’s Office following commencement. Students with holds will not receive a diploma or official transcript until all obligations to the University have been cleared. (A13.14)

Texas A&M University-Commerce has the right to rescind any conferred degree if the University becomes aware of information that the student did not meet degree requirements.
University Studies Requirements

University Studies is an essential element in the educational process that results in professional success, personal growth, and responsible citizenship. In this process, students have the opportunity to acquire knowledge, learn reasoning and communication skills, examine their goals, values, and potentialities, and develop an enduring commitment to learning through both formal and informal educational experiences.

The University Studies program at A&M-Commerce embodies the characteristics and purposes of the University. With both professional and liberal arts programs, A&MCommerce recognizes general education as a necessary component in the development of all students. The general education which takes place in the University Studies program is therefore not only compatible with specialization but is the context in which specialization occurs.

The breadth and depth offered by University Studies is necessary to the meaningful and informed study of any major field. Though the courses are required, they are not to be regarded as inconveniences, but rather as the intellectual foundation upon which a university education is built.

Specifically, the University Studies program

—stresses breadth and provides a person with opportunities to perceive the integration of knowledge;

—involves the study of liberal arts and science;

—encourages understanding of our heritage as well as respect for other people's cultures;

—develops mastery of linguistic, analytical, and computational skills that are necessary for lifelong learning; and

—fosters development of such personal qualities as appropriate acceptance of ambiguity, empathy and acceptance of others, and expanded understanding of self.

Presently, there are two configurations by which students may satisfy the University Studies requirement at A&M-Commerce:

1. Completion of the current block of courses that comprises the University Studies Curricula (Table 1). These must total 43 semester hours.

2. A combination of Generic Transfer Equivalent Courses for initial transfer students (Table 2) and courses from Table 1. These must total 43 semester hours.

In both cases it is essential that students recognize that individual courses are not necessarily interchangeable. Certain science courses, for example, are intended for those majoring in science. Depending upon major, different math courses might be more applicable or even preferred by departments. Students considering University Studies courses should consult with appropriate
advising personnel or offering departments as a part of making an informed choice prior to enrollment.

**Table 1—University Studies Courses**

**Communications (9 sh)**

- English Composition (6 sh)—Eng 1301, 1302
- Speech (3 sh)—Spc 1315 or 1321

**Mathematics (3 sh)**

- Math 1314 or 1324 or 179 or 2413

**Natural Sciences (8 sh from the following)**

- Biological Sciences 1406 4, 1407 4, 1409 4, 1411 4, 1413 4, 2401 4, 2402 4
- Environmental Science 104 4, 1301 4
- Astronomy 1411 4, 1412 4
- Chemistry 1405 4, 1407 4, 1411 4, 1412 4
- Physics 1401 4, 1402 4, 141 4, 2425 4, 2426 4
- Earth Sciences 100 4, 1403 4, 203 4
- Integrated Sciences 1415 4, 1417 4
- Plant and Soil Science 1415 4

**Social and Behavioral Sciences (15 sh)**

- American History (6 sh)—Hist 1301, 1302
- American Government (6 sh)—PSci 220, 221; or 2301, 2302
- Three semester hours from the following: Anth 2351; Eco 2301, 2302; Phil 2303; Psy 2315, 2301, 2306; Soc 1301, 1306

**Humanities (3 sh from the following):**

- Eng 2326, 202, 2331; Hist 264 or 265; Jour 1307; Phil 1301, 331, 332, 360, 362; PSci 410, 411, 412; RTV 1335, Spc 1311

**Visual and Performing Arts (3 sh from the following):**

- Art 1301, 1303, 1304, 304, 307; Eng 432, 434; Mus 1310, 1308; The 1310, 340, 440
Selected courses from the British Studies program may be transferred to satisfy University Studies requirements in the categories of Social and Behavioral Sciences, Humanities, and Visual and Performing Arts. *Art 1303 or Art 1304 can be counted towards the major requirement in Art History

**Fitness and Recreational Activity (2 fitness and recreational activity courses)**

Students must complete two Fitness and Recreational Activity (FRA) courses to satisfy the requirement. FRA 120 (Varsity Sports) and Mus 100 (marching band) may be utilized to fulfill all or part of this requirement. Only FRA 100 (with departmental approval from Health and Human Performance), FRA 120 (Varsity Sports) or Mus 100 (marching band) may be taken twice to satisfy this requirement. HHPK 200 may be taken to fulfill the two credit hour requirement for BAAS majors only. Students who have completed a continuous active duty period of six months or more with the United States military services (Air Force, Army, Coast Guard, Marine Corps, Navy) will be granted one semester hour of credit for fitness and recreational activity for each six months of duty up to a maximum of four hours credit. For consideration of fitness and recreational activity credit for military service the student should submit a copy of DD Form 214 to the University Admissions Office.

**Honors**

Honors sections of University Studies courses are designed to allow more personal attention from the instructor, and they provide students with wider opportunities for critical analysis and independent study. Such sections are identified by the letter H, such as English 101H, etc. These course sections are restricted to students in the Honors College only.

**Table 2—Generic Transfer Equivalent Courses for Initial Transfer Students**

**Communication (9 sh)**

- English Composition, 6 sh—Any two college-level courses in English composition.
- Speech, 3 sh—Any course in public speaking.

**Mathematics (3 sh)**

- Mathematics, 3 sh—Any mathematics course at the level of college algebra, college algebra-based business mathematics, or higher level.

**Natural Science (8 sh)**

- Any two laboratory based courses in biological and/or physical science.

**Social and Behavioral Sciences (15 sh)**

- History, 6 sh—Any two survey courses in American history.
- Government, 6 sh—Any two government/political science courses which include a study of both the Texas and United States Constitution.
Three semester hours of any course in introductory psychology, sociology, logic, anthropology, economics or a survey of the social sciences.

**Humanities (3 sh)**

Any one course in sophomore survey of English, American, or comparative literature or a combination; or, one course in mass communications, or introduction to philosophy or general ethics or world civilization.

**Visual and Performing Arts (3 sh)**

One course from music history, music literature, art history, film history, film and literature, and introductory or survey courses in theatre, or music or art or theatre appreciation. Courses in art, music, or theatre fundamentals, theory, or methods, and applied music will not substitute.

**Fitness and Recreational Activity (2 sh)**

Any two fitness and recreational activity (FRA) courses. One semester hour Marching Band may be substituted for this requirement; or active military service: one hour credit per six months of active service.

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**Table 3—Texas Common Course Numbers Equivalent/Substitution Courses for Initial Transfer Students**

**Communication (9 sh)**

English Composition, 6 sh—Engl 1301 and Engl 1302

Speech, 3 sh—Spch 1311, 1315, 1321

**Mathematics (3 sh)**

Math 1314, 1316, 1324, 1414, 2312, 2313, 2412, 2413

**Natural Sciences (8 sh taken from any of the following courses)**

Biology—Biol 1106/1301, 1107/1307, 1406, 1407, 1108/1308, 1109/1309, 1408, 1409, 1111/1311, 1113/1313, 1411, 1412, 2101/2301, 2102/2302, 2106/2306, 2401, 2402, 2406

Chemistry—Chem 1107/1307, 1105/1305, 1405, 1406, 1407, 1408, 1111/1311, 1112/1312, 1411, 1412, 1413, 1414

Earth Sciences—Geol 1103/1303, 1104/1304, 1105, 1305, 1401, 1402, 1403, 1404, 1405, 1446, 1447

Physic—Phys 1101/1301, 1102/1302, 1105/1305, 1107/1307, 1401, 1402, 1405, 1407, 1410, 1411, 1412, 1413, 1111/1311, 1112/1312, 1115/1315, 1415, 1417, 1117/1317, 2125/2325, 2126/2326, 2425, 2426
Environmental Sciences—Envr 1401, 1402

**Social and Behavioral Sciences (15 sh)**

History, 6 sh—Hist 1301 and Hist 1302

Government, 6 sh—Govt 2301 and Govt 2302 sequence or Govt 2305 and Govt 2306 sequence

Social and Behavioral Sciences, 3 sh—Anth 2346, 2351; Econ 2301, 2302; Phil 2303; Psyc 2301, 2306, 2315; Soci 1301, 1306

**Humanities (3 sh from the following)**

Engl 2321, 2322, 2323, 2326, 2327, 2328, 2331, 2332, 2333; Hist 2321, 2322;

Comm 1307; Phil 1301, 2306, 2316, 2317

**Visual and Performing Arts (3 sh from the following)**

Arts 1301, 1303, 1304; Musi 1306, 1308, 1309, 1310; Dram 1310, 2361, 2362, 2363. Courses in art, music, or theatre fundamentals, theory, or methods and applied music will not substitute.

**Fitness and Recreational Activity (2 sh)**

Two one-hour courses from PHED 1100-1150 and/or PHED 2100-2150, or one two-hour course, PHED 1238, Concepts of Physical Fitness. Music Marching Band may be taken to satisfy this requirement; or active military service: one hour credit per six months of active service.

Transfer courses which are part of other Texas junior/community college’s or another university’s core curriculum shall be used to satisfy the core component areas at Texas A&M University-Commerce. Additional core curriculum courses may only be required as approved by the Texas Higher Education Coordinating Board.

**Special Services and Opportunities**

Click on any of the following links for information:

- Division of Student Access and Success
- Enrollment and Retention Division Offices
- Offices of the Dean of Campus Life and Student Development
- University Institutional Advancement
- University Police Department
- Academic Programs and Services

**Division of Student Access and Success**
The Division of Student Access and Success was created in January 2009 to provide students at Texas A&M University-Commerce with opportunities and experiences that will foster their access to and success in higher education. The unprecedented organizational structure of this division reflects a continuum of support services that are required for today's students to have the transformational experience desired from earning a college degree.

The Division of Student Access and Success includes the following units: enrollment management and retention, including undergraduate admissions, registrar, financial aid and scholarships, Hispanic outreach, military personnel and veterans' services, and international student services; university college, including college readiness and student assessment, success coaches, early intervention, freshman success seminars and student engagement, and developmental education; Honors College; Campus Life and Student development, including residential learning and living, Morris Recreation Center, Sam Rayburn Student Center, counseling services, diversity affairs, student judicial services, student organizations and activities, applied leadership institute, and student health services; Student Support Services, including Trio programs, career development, and student retention initiatives, Outreach, including off-campus sites and programs and distance education.

Texas' Closing the Gaps goals stress the need for higher education institutions to rethink current organizational structures to focus on student access and success. A cohesive and unified framework in which academic and social support policies and practices go hand-in-hand with increased expectations for student success is necessary for today's students, particularly those who have traditionally been underserved.

Texas A&M University-Commerce has created an organizational structure that first focuses on creating partnerships with public schools and community colleges to align curriculum, instruction, and expectations. A Student Access and Success Center provides a one-stop shop concept for student support services. This facility is located at 2200 Campbell Street. Locating all enrollment management and University College functions in one facility, allows the university to form a team to focus on the success of each new student. Freshmen Success Seminars, as well as early intervention processes, allow the university to diagnose concerns and prescribe strategies to assist students with their educational experience. Success coaches, rather than traditional academic advisors, have been hired and trained to assist students in developing personalized educational plans focused on career goals and financial resources.

The traditional Student Affairs organizational structure has been replaced by focusing on campus life and student development. Specific learning outcomes for the postsecondary experience have been developed so that students not only receive a degree that prepares them for success in their chosen careers, but also provides them with specific knowledge and skills that are transferable to any setting. These specific learning outcomes are focused on leadership, globalization, service learning, and wellness.

The university has identified the traditional "gate-keeping" courses with which data indicate students have difficulty. Innovative academic support services have been and will continue to be implemented, monitored, and adjusted to increase student success rates.

Texas A&M University-Commerce has created two offices to focus on two populations targeted in the Strategic Enrollment Plan. An Office for Hispanic Outreach has been formed and resources dedicated to focus on the university's goal of becoming an Hispanic-Serving Institution within three years. An Office for Military Personnel and Veteran Services has been formed and Texas A&M University-Commerce has been designated a 2010 “Military Friendly School” by G.I. Jobs. The designation is reserved for the top 15% of colleges, universities and trade schools in the United States that are reaching out to America's veterans as students.

**Office of Student Disability Resources and Services**

Students with disabilities at TAMU-Commerce are encouraged to participate in all aspects of campus life. Therefore, Student Disability Resources and Services (SDRS) provide services to students with disabilities to ensure accessibility to university programs. Some of the services SDRS offers include accommodations counseling, evaluation referral, disability-related information and resources, adaptive technology counseling and equipment for on campus use, testing accommodations, and interpreter services for academically related purposes.

All students with disabilities who need accommodations must file an application for eligibility as well as provide current documentation of disability. Applications are available in the Office of Student Disability Resources and Services and also on
their website at http://web.tamu-commerce.edu/studentLife/campusServices/studentDisabilityResourcesAndServices/studentResources/default.aspx

SDRS is located in Room 132 of the Gee Library. For additional information email StudentDisabilityServices@tamu-commerce.edu or call 903-886-5150 or visit http://web.tamu-commerce.edu/studentLife/campusServices/studentDisabilityResourcesAndServices/studentResources/default.aspx

TRIO Programs

The TRIO Programs of Texas A&M University-Commerce consist of Student Support Services and Upward Bound. Each program is designed to assist low-income, first generation, and disabled students with a quality education. The goal is to ensure that each student is provided with quality academic support in the areas of tutorial assistance, college and career counseling, leadership skills, and character education.

The TRIO Department is located on the third floor of the Halladay Student Services Building. Student Support Services provides advisement, academic counseling, and free tutorials in basic skills, general education subjects, and socio-cultural activities to strengthen each participant’s academic and personal background. The Upward Bound Program is a “Pre-Collegiate” program designed to assist high school (9-12 grades) students in preparing for college academically and socially. The primary goal is to make certain that each student receives the proper academic and social skills, training and development necessary to succeed in high school and college.

Enrollment Management and Retention Division Offices

The Enrollment Management and Retention Division effectively recruits, enrolls and retains a diverse student body at Texas A&M University-Commerce. The Enrollment Management and Retention Division prides itself in providing exemplary student service in a continuous improvement and cohesive environment. The offices that provide quality customer service to our students include: Undergraduate Admissions for Freshman and Transfer students, Registrar, including Veterans and Military Services, Financial Aid and Scholarships, Hispanic Outreach and Student Programs and New Student Orientation.

Undergraduate Admissions Office—Freshman and Transfer

Located in the Student Access and Success Center at 2200 Campbell Street, this office is responsible for both the recruitment and enrollment of new undergraduate students. For more information, please contact Freshman Admissions or Transfer Admissions at 903-886-5000.

Office of the Registrar

Located in the Student Access and Success Center at 2200 Campbell Street, the Registrar’s Office is the custodian of student’s permanent academic records. The Graduation Coordinator located in the Registrar’s Office, is responsible for the certification of university candidates for graduation. For more information, please contact the Registrar at 903-886-5068.

Veterans and Military Services

The Veterans and Military services office administers Veterans’ Administration educational benefit programs for veterans and their dependents who may be eligible to receive benefits under any one of several programs. Applications and further information are available in the Veterans and Military Services Office or by calling 903-886-5123.

AIR FORCE ROTC PROGRAM
Through the University of North Texas
A&M-Commerce students are given the opportunity to participate in the Air Force ROTC program
through the University of North Texas. For more information, the student should contact:

Unit Admissions Officer
Division of Aerospace Studies
AFROTC-Detachment 835
940-565-2074

Aerospace Studies, Department Chair
1155 Union Circle #305400
Denton, TX 76203-5400
(940) 565-2074

AFROTCDET835@unt.edu

The courses which may be taken in this AFROTC program are located below.

COURSES IN AEROSPACE STUDIES

The Air Force ROTC courses are taught on the campus of the University of North Texas, Denton,Texas. Students register and
pay for the courses through MyLeo. Directions to UNT

Aerospace Studies, AER

103-104. The Foundation of the United States Air Force. 1 hour each. (1;1) Survey of the structure and missions of Air Force
organizations; officership and professionalism; and an introduction to communication skills.

203-204. The Evolution of the U.S.A.F. Air and Space Power. 1 hour each. (1;1) Focus on factors contributing to the
development of air power from the earliest beginnings through two world wars; the evolution of air power concepts and doctrine;
the global war on terrorism; and an assessment of communicative skills.

292. Cooperative Education in Aerospace Studies. 1–3 hours. Supervised work in a job directly related to the student’s major,
professional field of study or career objective. Prerequisite(s): student must meet employer’s requirements and have consent of
department chair. May be repeated for credit.

331-332. Leadership Studies. 4 hours each. (3;1) Study of leadership and management fundamentals, professional knowledge,
leadership ethics and communication skills required of an Air Force officer. Case studies are used to examine Air Force
leadership and management situations as a means of demonstrating and exercising practical application of the concepts being
studied.

332. Prerequisite(s): AERO 331.

431-432. National Security Affairs/Preparation for Active Duty. 4 hours each. (3;1) Examines the need for national security,
analyzes the evolution and formulation of the American defense policy, strategy, and joint doctrine; investigates the methods for
managing conflict; and overview of regional security, arms control and terrorism. Special topics of interest focus on the military
as a profession, officership, the military justice system, civilian control of the military, preparation for active duty, and current
issues affecting military professionalism.

431. Prerequisite(s): AERO 331 and 332.

432. Prerequisite(s): AERO 331, 332 and 431.

492. Cooperative Education in Aerospace Studies. 1–4 hours. Supervised work in a job directly related to the student’s major,
professional field of study or career objective. Prerequisite(s): 12 hours credit in aerospace studies; student must meet employer’s
requirements and have consent of department chair. May be repeated for credit.
Office of Financial Aid and Scholarships

Texas A&M University-Commerce is dedicated to helping students attain a quality education. Eligibility for competitive merit-based scholarships is determined primarily by the results of the SAT or ACT college entrance tests and a student’s high school academic record. All freshman scholarship recipients are required to attend an early summer orientation and registration session, usually conducted in June. Some, but not all, of the competitive scholarship programs may act to reduce an out-of-state student’s tuition charges from nonresident to Texas resident levels. This status is determined by legislative act and is subject to change. All scholarships are only for full-time students, unless otherwise indicated. All students who have been admitted into the University will be considered for scholarships.

Satisfactory Academic Progress—Evaluation of satisfactory academic progress of students receiving a scholarship is completed by the staff of the Office of Financial Aid and Scholarships. To review the SAP Policy please visit the scholarship website at www.tamu-commerce.edu/scholarship.

Freshman Entering A&M-Commerce—Students who have been admitted to the University will be considered for scholarships. A separate application is not required. The primary scholarships available to entering freshman are the: Academic Excellence; Blue and Gold; Presidential.

Transfer Students—Students who have been admitted to the University will be considered for scholarships. A separate scholarship application found at http://web.tamu-commerce.edu/admissions/tuitionCosts/financialAid/scholarships/documents/UndergradApplication.pdf will need to be completed. The primary scholarships available for junior-community transfer students are: Phi Theta Kappa Scholarship; the Transfer Scholarship.

Graduate Students—While graduate student scholarships are limited, graduate students are encouraged to apply by completing the Graduate Scholarship application. The application is located at http://web.tamu-commerce.edu/admissions/tuitionCosts/financialAid/scholarships/documents/GraduateApplication.pdf. For additional information, contact the Office of Financial Aid and Scholarship at 903-886-5915 or visit the website at www.tamu-commerce.edu/scholarship.

Financial Aid Office

A student planning to enroll at A&M-Commerce who seeks financial aid should complete a Free Application for Federal Student Aid (FASFA). Online information available at www.tamu-commerce.edu/financial-aid.

Most financial aid granted at A&M-Commerce is based upon the student’s financial need and is awarded on a priority basis according to file completion date. Students who do not demonstrate financial need will be eligible for the unsubsidized Direct or Federal Family Education Loan and for the Federal Parent Loans for Students (Fed. PLUS). Academic progress and scholastic standing are taken into consideration when aid is awarded. Recipients are required to maintain the number of hours for which they are paid. Prorated repayment of aid is expected from students who withdraw or drop hours. All applications must be completed by the priority deadline to insure availability of funds. Programs with limited funding (TPEG, FSEOG, FCWS, Perkins, and other grants, but not the Pell Grant) are awarded to eligible students on a first-come, first-serve basis. Priority for these funds is given to full-time students who have completed their financial aid file by the priority deadline. For information on the priority date and to view all forms of available financial aid please visit the website at www.tamu-commerce.edu/financial-aid.
**Withdrawing on Financial Aid/Return of Title IV Aid**

A student who receives Title IV aid and withdraws or is suspended from the University during a term in which the student began attendance, will have his or her eligibility for aid recalculated as prescribed by the 1998 amendments to the Higher Education Act of 1965.

Title IV aid is earned in a prorated manner on a per diem basis up to and including the 60% point in the term. After the 60% point all aid is considered earned. The percentage earned is calculated by dividing the number of days completed by the total number of days in the term. It is the unearned percentage of aid that determines the amount that must be returned to the Title IV program(s). The University, as well as the student, may be required to return to the federal government the unearned portion of the Title IV funds. When the University returns its unearned portion of the Title IV funds, a portion of the students institutional charges may be left outstanding. The University will require students to pay any portion of institutional charges that are left outstanding after the University returns Title IV funds. This may cause the student to owe both the University and the Federal government.

**Students who are considering withdrawing, should contact the Financial Aid Office for a thorough explanation of how this policy will affect them.** Additional information on the Return of Title IV Aid policy, including examples, is available from the Financial Aid Office. This policy is accessible on the A&M-Commerce Financial Aid website, http://www.tamu-commerce.edu/financial-aid.

**Satisfactory Academic Progress Procedure (SAP)**

The Higher Education Amendment Act of 1965, as amended, mandates institutions of higher education to establish a minimum standard of “Satisfactory Academic Progress” for students receiving financial aid. For additional information visit the Office of Financial Aid website at http://www.tamu-commerce.edu/home/finAid/23.htm. A copy of the policy is also available in the Office of Financial Aid located in the Student Access and Success Building.

**Office of Hispanic Outreach and Student Programs**

The mission of the Office of Hispanic Outreach and Student Programs is to raise a greater awareness on the importance of higher education among groups and individuals at high schools, community colleges and in the general community with a special focus on Hispanic/Latino students and their community. Office staff advise prospective Hispanic/Latino students and families on the college application process, financing their education and the student support services available to ensure their college success. The office is responsible for coordinating and implementing various outreach activities, new student orientation and educational programs in an effort to enhance the university’s diverse enrollment. The Office of Hispanic Outreach and Student Programs is located in the Student Access and Success Center at 2200 Campbell Street and can be reached via e-mail at HispanicOutreach@tamu-commerce.edu or by calling our bilingual (English/Spanish) line at 903-468-8699.

**New Student Orientation and Registration**

The New Student Orientation and Registration program is the first step for all newly admitted students. Orientation is designed to make this transition a smooth and enjoyable experience by addressing the common needs of incoming students. New Student
Orientation is designed to provide first-year and transfer students with the opportunity to become familiar with the campus services; meet faculty, staff and current students; learn about campus activities and organizations; receive academic advising; and register for classes. New Student Orientation is a mandatory step for all new students.

Parents who choose to attend the orientation program have their own activities and have opportunities to meet key faculty and administrative personnel for an exchange of questions and ideas. Parent attendance is not mandatory.

New Student Orientation programs are offered prior to the fall and spring semesters. Students will be provided with dates upon their acceptance to the University. Before attending an orientation, a student must be fully accepted to the university, have completed and met Texas Success Initiative requirements by either the THEA or other placement test (or have documentation of being exempt), and complete the orientation reservation process. If students are attending an off-campus location or satellite campus, they should contact that location directly for specific orientation information pertinent to that program.

Another opportunity offered through New Student Orientation and Registration is the Lion Camp experience. Student leaders serve as camp counselors who facilitate activities, discussions, games, and presentations. During Lion Camp, new students develop friendships, an awareness of their personal values, and essential survival skills as well as discover how to use the university services to maximize their strengths and success. Lion Camp occurs after the residence halls open before classes begin for the fall.

**Offices of the Dean of Campus Life and Student Development**

The Component of Student Affairs at Texas A&M University-Commerce is committed to the development of a seamless learning environment in which information learned in the classroom and activities outside the classroom are integrated. This holistic approach is designed to help students get involved and take control of their education.

The Dean of Students is responsible for the development and enforcement of the rules and procedures governing the conduct of students at A&M-Commerce, which are outlined in the Student’s Guidebook. It is the responsibility of students to be aware of, and adhere to, these procedures which are subject to change without prior notice, upon approval by the proper officials of the institution. The Dean of Students Office also administers the student insurance program.

In conjunction with the Dean of Students Office, the Assistant Dean of Students provides leadership within the student disciplinary process by updating and enforcing the university Student Code of Conduct, which is located in the Student’s Guidebook. The Assistant Dean of Students is responsible for revising the Student’s Guidebook annually, maintaining changes within our local, state, and federal judicial systems. The Assistant Dean of Students serves as Student Service Fee Advisory Committee Chair and works with faculty and professional staff on a variety of issues.

**Children’s Learning Center**

A licensed day care/learning center is located on campus. Care is provided for children ages six weeks to five years of age. The CLC also offers an after-school program during the school year and a summer program during the summer for children ages five thru eight. The Children’s Learning Center provides a developmentally appropriate curriculum and equipment for all children in a consistent, learning environment. The Children’s Learning Center prides itself on quality care and an academic environment. For information on the Children’s Learning Center, you can reach the director by calling 903-886-5769 or on the web at www.tamu-commerce.edu/childrencenter.

**Student Health Center**
Medical services are available at the Student Health Center to those students who are currently attending classes at A&M-Commerce. Services include diagnosis and treatment of minor illnesses, minor injuries, minor surgery, x-ray and lab procedures. Moving vehicular accidents are not treated. Students are seen only during regular clinic hours; all after-hour illnesses or emergencies may be seen at the local hospital at the expense of the students.

**Department of Residential Living and Learning**

A&M-Commerce can accommodate approximately 1,800 single students and 100 families in campus housing. The costs for these facilities are reasonable, and the facilities are varied to meet different lifestyle alternatives. Staff members provide residents with services and programs that are structured to assist and develop a positive living/learning environment.

**Residency Requirement**

The housing residency requirement stipulates that all beginning single undergraduate students who are not commuting from the home of their parents or legal guardian must reside in University housing (residence halls) and to purchase a University meal plan. Students planning to live at home in Commerce or the immediate vicinity are required to file a notarized Commuting Authorization form with the Department of Residence Life prior to registration. Students must notify the Department of Residence Life of any change in name or address. For cost information regarding both single and family housing, please contact the Department of Residence Life, Texas A&M-Commerce, P.O. Box 3011, Commerce, TX 75429 or call 903-886-5797. Additional information is available at the department’s website at www7.tamu-commerce.edu/reslife.

**Single Housing**

Single student housing provides students with the opportunity to experience the advantages of on-campus living. Single students will have the opportunity to select from coed, Greek, a small female hall, single or double room assignments, and apartment facilities. Each of these facilities will offer unique opportunities for students.

Cable television, central air and heat, and ethernet connections are provided in each room. Mail service is provided in Smith, Whitley, Berry and the New Pride Apartments. Housing is available on a limited basis when classes are not in session. Residents may be asked to consolidate during break periods and will be charged a fee for the entire break period.

Once a single student application and $100 deposit is received applicants will receive an assignment letter and room and meal plan contracts prior to the beginning of the semester.

**Family Housing**

Two-bedroom apartments are available in family housing. Family housing students are required to rent a post office box on campus because mail delivery is not available in these facilities. Some apartments are furnished and the rent includes all utilities.

Once a family housing application and a $100 deposit is received, applicants will receive an assignment letter and a housing contract prior to the beginning of the semester.

**Counseling Center**

The Counseling Center provides free services to currently enrolled University students. Counselors are available to listen, lend support and help students meet the daily challenges of college life. Programs and services are offered that will help students maximize their potential for personal and academic success. Services include individual and group counseling, crisis intervention, and consultation and referral. Legal assistance, educational outreach, biofeedback, and a relaxation room are also available. Confidentiality is respected, and counseling records are not included as part of a student's academic record. For more information about services or to schedule an appointment, contact the Counseling Center in the Halladay Student Services
Building, Room 204, or contact 903-886-5145. We encourage all students to take advantage of the services the Counseling Center has to offer. Sometimes a little help can make a big difference!

**Morris Recreation Center**

A $12 million state-of-the-art recreation facility is the newest addition to the A&MCommerce campus. The Morris Recreation Center officially opened its doors in the summer of 2003. The facility features the following activity areas: a 45-foot climbing rock, 3-lane jogging track, 4 racquetball courts, 2 basketball courts, large fitness room with cardiovascular machines and weight equipment, aerobics room, classroom, snack area, and locker rooms. Also included is: heated leisure pool, 2 tier hot tub, 2 sand volleyball courts, 2 basketball courts, picnic tables, barbecue pits and a sunbathing area. The Morris Recreation Center is the focal point of the A&M-Commerce campus and serves as the “heartbeat” of student life.

**Diversity and Cultural Affairs**

Diversity and Cultural Affairs is located in the Student Life Office, Halladay Student Services Building, Suite 201.

Diversity and Cultural Affairs provides for the needs of a culturally diverse student body, and offers educational programs and activities for the general population as well. Some of the sponsored programs and events—designed to promote success and community service—include V.I.S.I.O.N.S., African American History Month, Hispanic Awareness Week, Cinco de Mayo, and the Martin Luther King, Jr. Celebration.

**International Student Office**

The International Student Office offers assistance to international students and exchange visitors in regard to academic, personal, and immigration-related concerns and refers them to other offices (on or off campus) as needed. Services provided by the International Student Office include an international new student orientation, informational workshops, coordination of special activities, liaison with the Department of Homeland Security and Department of State regarding nonimmigrant students and exchange visitors, documentation for travel, employment authorization, extension of stay, etc. The International Student Office also handles the issuance of Forms I-20 and DS-2019 to nonimmigrant students and exchange who have been officially admitted or invited to the University. For more information, contact John Mark Jones; phone 903-886-5097; fax 903-468-3200; E-mail intl-stu@tamu-commerce.edu

**Career Services**

(903) 468-3223

Office Hours: M-F, 8am-5pm

Student Access and Success Center, Room 152
What will I major in? What am I going to do when I graduate? Where will I work? These are big decisions a college student will need to make. Career Development is here to help you along the way from freshmen to graduate. We are here for you! Take advantage of these opportunities to “Make the Connection” with Career Development:

- **My Plan** - (www.MyPlan.com) web based career assessment system that is easy to use. Whether you are deciding/changing a major or narrowing your major career options, MyPlan should be in your plans. Call our office today and ask for the FREE code.

- **Career Counseling** - a one-on-one opportunity for you to have your MyPlan interpreted by a career professional and obtain direction with clear and practical decision making tools. Call to schedule an appointment.

- **Job Search** - programs and events provide professional development opportunities such as resume/cover letter critique, mock interview, job fairs, business etiquette dinner, groundhog job shadow day, on-campus interview and job search workshops. These are offered throughout each semester.

- **Lion Tracks** (www.myinterfase.com/tamu-commerce/student) is an online system that connects you to potential employers. You may search updated full-time, part-time, internship and co-op job opportunities. You may upload your resumes and cover letters. Employers may view your resumes and post their job announcements. Lion Tracks also features our upcoming calendar of events and job fair employer participant lists.

**Sam Rayburn Student Center (SRSC)**

With over 92,000 square feet of space for leisure enjoyment, facilities for meetings, banquets, and conferences, the SRSC seeks to be the hub of activity for campus. The SRSC serves as the center of campus life and encourages students, faculty, staff, and the community to come together.

The first floor features many services for the campus community, including lost and found and an information reception area. For fun, The Club provides nightly entertainment and hosts a recreation room with pool tables and the latest in electronic games. If you need a special gift, supplies, snacks, or books—the Campus Bookstore and Convenience Store is located there. A Food Court complete with Grill 151 and Einstein Brothers Deli are right across from The Club and next to the Campus Dining Room. If you need large-scale printing, posters, or specially imprinted gifts or awards, the Pride Shop is there to help you design and impress!

The second floor houses the offices for Student Activities and Leadership, which includes student organizations, the Campus Activities Board, Greek Life, The Golden Leos (the student ambassadors for the university), and Student Government. This is a place for the campus community to come together to create new programs, ideas, and projects. Their mission is to promote student learning, involvement, and success. Activities sponsored by student organizations and university departments in the student center include major events by nationally known entertainers, lectures, movies, cultural, social, and recreational programs and activities. A list of A&M-Commerce’s student organizations can be found in the Student’s Guidebook. The second floor also houses the SRSC.
University Institutional Advancement

This division of the university serves as the creative force that articulates a passion for the University, inspiring others to be generous in their giving and loyal in their support. It includes three areas: development (fund raising), marketing communications (including KETR) and alumni relations. Development

The purpose of the Development Office is to acquire gifts for scholarships, endowments, fellowships, research, capital improvements, and other programs. This is achieved through solicitation of individuals, corporations and foundations, direct mail, employee gifts (Bridge Builders), as well as special campaigns.

With the support of the Advancement Services department, the development office also maintains, organizes, plans and develops activities for the Texas A&M University-Commerce Foundation Board of Directors. Acquisition and disbursement of all gifts are monitored by the development office.

Foundation

The Foundation was established in 1970 to assist the University in seeking and administering private sector support. Its assets are managed through The A&M University System and there is an A&M-Commerce board of directors who lead efforts to solicit gifts from corporations, foundations, government granting agencies, alumni and other individuals.

Alumni Relations

This office is responsible for building and maintaining relationships with the University’s 75,000-plus alumni records. Alumni Relations provides administrative support for the Texas A&M University-Commerce Alumni Association as well as special services to individual alumni and alumni groups.

Alumni Relations assists Marketing Communications in producing The Pride, a quarterly magazine for alumni and friends of the University. The office also plans and executes alumni events such as class and organization reunions, homecoming weekend, commencement receptions, alumni chapter activities, the alumni directory, alumni awards and recognition, alumni-funded scholarships, alumni ambassadors, distinguished alumni and other programs.

Marketing Communications

The Marketing Communications department develops and implements the strategic marketing efforts for the university including the design, production, and implementation of all advertising, branding, marketing materials, media relations, as well as design and maintenance of the university’s website. The department supervises the operation of the on-campus public radio station KETR 88.9 and coordinates the University’s collegiate licensing program. Marketing Communications is responsible for communicating information about the university’s activities, events, programs and people. The department includes graphic designers, publications writers, media specialists, web management staff and photographer and serves as the University’s official liaison with the news media. This office also publishes the employee newsletter, A&M-Commerce Today.

Marketing Communications designs and produces promotional materials for the University including the publication of the alumni magazine pride, the President’s Report and all university, college and department promotional materials including brochures, newsletters, flyers and other collateral materials. This office also oversees the university website and works closely with other departments and organizations in the maintenance of their web pages.
The department oversees the collegiate licensing efforts of the University by standardizing, protecting and promoting the University’s brand via the on-line Graphic Identity Manual and through its licenses vendor program.

As part of the Marketing Communications department, the 100,000-watt KETRFM 88.9 Public Radio station provides local and nationally produced news, sports, weather, public affairs, and national programming. The KETR staff includes the general manager, news director, program manager, and program producer as well as volunteers and students from the University’s Radio/Television department. The KETR digital signal broadcasts to a 75-100 mile radius of the University and is also online at www.ketr.org. The KETR studios along with the Marketing Communication offices are located on the first floor of Binnion Hall, facing Education Drive.

University Police Department
This office provides police services and all security functions for the university. The University Police Department also provides many services for the faculty, staff, students and visitors on campus. The department is responsible for investigation of criminal activity, crime prevention programs, safety awareness, public service assistance for motorists, event security and parking enforcement. The department is responsible for the enforcement of university parking regulations as well as motor vehicle laws. All motor vehicles parking on campus must be registered with the department and the parking permit properly displayed.

Officers of the department are certified by the State of Texas as commissioned peace officers, and have full law enforcement authority.

The University Police Department is open 24 hours a day for assistance. The office is located on the first floor of Henderson Hall on Monroe Street. Emergency—911; Non-Emergency—903-886-5868. For a copy of crime statistics, call or come by the UPD, or visit us online at www.tamu-commerce.edu/upd/Reports/2009.pdf

Academic Programs and Services

The Writing Center

The Writing Center (aka The Communication Skills Center) is located in the Hall of Languages on the east side of the campus. As you come in the front (north) entrance, the Center is on the right (room 106).

The Center is a drop-in center (which means students need no appointment) staffed by graduate students who are preparing to teach composition and/or literature in four year colleges and community colleges, and by selected undergraduates who have come recommended by composition teachers. Generally we are open Monday through Thursday 9-4 and Friday 9-1. We also have a location in the Gee library next to the circulation desk. Generally we are available at this location Sunday-Thursday 6PM-9PM.

The hours are posted by the door and the phone number is 903-886-5280.

The Communication Skills Center is not a grammar fix-it shop. It is a place where writers can share techniques for examining ideas and effectively exploring them in writing. Students are encouraged to bring their writing assignments at any stage of the writing process. Tutors can help students determine whether they have met the criteria of the assignment, whether they have organized their essay well, and whether their writing needs more development or attention to logic.

While tutors will not proofread papers, they are ready to help the student achieve mastery over mechanical and grammatical features. Tutors will explain any grammatical problems they see and assist students in correcting them, but they will not make corrections for them. The Center has many worksheets that students may use to relearn any rules of grammar they have forgotten.

Students doing research can receive help in documentation. The Center has handouts on MLA and APA documentation and a computer program to assist students in creating a work cited page.

Students may also receive help in reading assignments, in annotating texts, and preparing for tests.

Honors College
The Honors College is administered by the Dean of Honors, who also serves as chapter sponsor for Texas Lambda Chapter of Alpha Chi (a national honors society), and as faculty advisor for the Student Honors Council.

Admission

Students will be admitted into the Honors College as they begin their first (freshman) year at Texas A&M University-Commerce. Although there are not strict cut-off scores for admission to the college, competition for spaces is intense. Generally, students should have ACT scores of 27 or higher and/or SAT scores (critical reading and mathematics) of 1200 or higher, and be in the top 10% of their class if they intend to apply for admission to the Honors College. However, exceptions can be made. For instance, a valedictorian with an SAT score of 1170 should consider applying for admission. The final step of the admission process is an interview.

Honors Courses

Honors College students will take approximately 25% of their course work in Honors sections. Honors sections will be designated with an H on the course schedule and may only be enrolled in with Honors or Departmental permission. Enrollment in these sections will be capped at 20. Honors College students should consult with the Dean of the Honors College and a departmental advisor before registration each semester.

Instructors for honors sections will be carefully chosen by Department Heads in consultation with the Dean of the Honors College. These faculty will have reputations for excellence in teaching and a direct interest in teaching honors students.

Honors Probation

Upon admission, Honors students are required to maintain a minimum 3.3 cumulative GPA. Students whose cumulative GPA falls between 3.0 and 3.29 will be assigned Honors Probationary status, that allows them to raise their GPA while continuing to enjoy the benefits of the Honors College. An exception is allowed for first-semester freshmen who may be assigned probationary status with a GPA between 2.7 and 3.29. Students may be on probation for a maximum of two consecutive semesters.

Honors Thesis

The honors experience culminates in an Honors Thesis. The Honors Thesis is an opportunity to pursue an area of interest in much greater detail than usually afforded in class. A thesis can consist of library research, original research, or be a creative project. The thesis can count as course work in the student’s degree program. The department courses numbered 490H and 491H are reserved for use in the students’ major departments in designing their plans of individual study as candidates for graduation with Honors. A thesis proposal must be approved before the student moves on to the final thesis project.

Honors College students must complete an Honors Thesis to graduate from the University with a bachelor’s degree. Students who withdraw from the Honors College before enrolling for their fifth semester at Texas A&M University-Commerce will not be held to this requirement.

Benefits

Honors graduates are rewarded by being given a Presidential reception as they near graduation and are awarded special recognition at the graduation ceremony. In addition, the level of honors is noted on the graduate’s diploma and transcript. Students in the Honors College may register for all courses at the time of graduate student registration.

Honors Scholar Program
Students entering the Honors Program between Fall 1993 and Spring 2007 must fulfill the following four requirements to graduate with an Honors degree:

1. Complete two Honors courses (See the Honors Director to be permitted into one of these courses).
2. Take one semester of Honors Colloquium (HC 400) for one semester credit hour sometime during the student’s stay at A&M-Commerce. (Evaluation will be through a series of short reaction papers).
3. Complete Honors Reading (491) and Honors Thesis (490) courses of three credits each. Students must submit the thesis and pass an oral exam to graduate with the appropriate level of Honors (Honors, High Honors, Highest Honors).
4. Attain a minimum 3.25 GPA at the time of graduation.

Students interested in entering the Honors Scholar Program after Spring 2007 should consult with the Dean of the Honors College. For additional information, visit the Honors Web Page at: www.tamu-commerce.edu/honors

**Mathematics Skills Center**

The Mathematics Skills Center primarily provides assistance for students enrolled in entry and developmental level mathematics courses. Most student workers in the Math Skills Center are also capable of providing assistance for students enrolled in calculus courses. Located in Binnion Hall, room 328, the Math Skills Center offers one-on-one tutoring throughout the day and includes evening tutoring on nights when developmental and entry level math classes are held. Lab hours vary each semester. Call for posted hours.

Services other than tutoring which are offered in the Math Skills Center include calculator assistance and computer software programs which supplement entry and developmental level mathematics textbooks. The Math Skills Center has an attached computer lab in Binnion 327, which is accessible through Binnion 328.

Students or faculty interested in further information are welcome to call the Math Skills Center at 886-5961. Also, the Director of the Math Skills Center is available to answer questions or discuss concerns with the Math Skills Center. Call Pamela Webster, Director, at 886-5950 or see her in Binnion 315.

**Office of Student Assessment and Evaluation**

Exams administered by this office include the American College Test (ACT), Scholastic Aptitude Test (SAT and SAT II), the Texas Higher Education Assessment (THEA), Texas Exam for Educator Standards (TExES); the Junior Level Essay (JLE), the General Educational Development (GED), the Law School Admission Test (LSAT), and the College Level Examination Program (CLEP).

Additional information about any of these exams can be provided by calling the Student Assessment Office at 903-886-5122.

**International Studies Program (Study Abroad)**

Texas A&M University-Commerce promotes a number of international studies programs. Students have the opportunity to participate in the British Studies Program (London), Spanish Culture and Language in Spain (Madrid or Valladolid), Bilingual/ESL Education (Cuernavaca, Mexico) and Global Business (China). Other programs are available in Australia, Austria, China, Costa Rica, Czech Republic, England, France, Germany, Ireland, Italy, Peru, Russian, South Africa, and Spain. For information on these and other international studies programs, contact the director of International Studies at 903-468-6034.

**Summary of Degree Requirements**

Click on any of the following links for information:
University Organization

Click on any of the following links for information:

- Texas A&M University-Commerce Organizational Chart
- Provost & Vice President of Academic Affairs
- Vice President of Student Access and Success
- Vice President for Business and Administration
- Vice President for Institutional Advancement

Common Course Numbers

These institutions have formally joined the Texas Common Course Numbering System:

Abilene Christian University
Alvin Community College
Amarillo College
Angelina College
Angelo State University
Austin Community College
Baylor University
Blinn College
Brazosport College
Central Texas College
Cisco Junior College
Clarendon College
Coastal Bend College
College of the Mainland
Collin County Community College District
Dallas Baptist University
Dallas County Community College District
Del Mar College
East Texas Baptist University
El Paso County Community College District
Frank Phillips College
Galveston College
Grayson County College
Hardin-Simmons University
Hill College
Houston Baptist University
Houston Community College System
Howard College
Howard Payne University
Jacksonville College
Kilgore College
Lamar Institute of Technology
Lamar State College-Orange
Lamar State College-Port Arthur
Lamar University
Laredo Community College
Lee College
LeTourneau University
Lon Morris College
McLennan Community College
McMurry University
Midland College
Midwestern State University
Navarro College
North Central Texas College
N. Harris Montgomery Comm. College Dist.
Northeast Texas Community College
Northwest Vista College
Odessa College
Our Lady of the Lake University
Palo Alto College
Panola College
Paris Junior College
Prairie View A&M University
Ranger College
St. Mary’s University
St. Philip’s College
Sam Houston State University
San Antonio College
San Jacinto College District
South Plains College
South Texas Community College
SW Collegiate Institute for the Deaf
South Texas Community College
Southern Methodist University
Southwest Texas Junior College
Stephen F. Austin State University
Sul Ross State University
Tarleton State University
Tarrant County College District
Temple College
Texarkana College
Texas A&M International University
Texas A&M University
Texas A&M University-Commerce
Texas A&M Univ.—Corpus Christi
Texas A&M University—Galveston
Texas A&M University—Kingsville
Texas A&M University—Texarkana
Texas Southern University
Texas Southmost College
Texas State Tech. College—Harlingen
Texas State Tech. College—Marshall
Texas State Tech. College—West Texas
Texas State Technical College—System
Texas State Technical College—Waco
Texas State University
Texas Tech University
Texas Wesleyan University
Texas Woman’s University
The University of Texas at Arlington
The University of Texas at Austin
The University of Texas at Brownsville
The University of Texas at Dallas
The University of Texas at El Paso
The University of Texas—Pan American
The University of Texas —Permian Basin
The University of Texas at San Antonio
The University of Texas at Tyler
The University of Texas Health Science Center—Houston
Trinity Valley Community College
Tyler Junior College
University of Houston
University of Houston—Clear Lake
University of Houston—Downtown
University of Houston—Victoria
University of the Incarnate Word
University of North Texas
University of St. Thomas
Vernon Regional Junior College
Victoria College
Wayland Baptist University
Weatherford College
West Texas A&M University
Western Texas College
Wharton County Junior College
Wiley College

In addition to the common course numbers which follow, other A&M-Commerce course equivalents and course substitutions can be obtained from a generic junior college transfer guide. The guides are available from the academic counseling service at each junior college and from the A&M-Commerce Admissions Office.

<table>
<thead>
<tr>
<th>Common Course</th>
<th>Course Name</th>
<th>A&amp;M-Commerce Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2301</td>
<td>Prin. of Acct. I</td>
<td>Acct 221</td>
</tr>
<tr>
<td>ACCT 2302</td>
<td>Princ. of Acct. II</td>
<td>Acct 222</td>
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*Non-Advance Credit

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Click on any of the following links for information:

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- Officers of the Administration and Special Administrative Services
- Faculty and Professional Librarians
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<td>Hon. Morris Edwin Foster</td>
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<td>Hon. Lupe Fraga</td>
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<td>Austin</td>
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<td>Hon. Gene Stallings</td>
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# Presidents

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<td>D. Whitney Halladay</td>
<td>1966-1972</td>
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<td>Keith D. McFarland</td>
<td>1998-2008</td>
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Officer of the Administration and Special Administrative Services

President of the University and Chief Executive Officer

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Athetic Director

Carlton Cooper, M.L.A.

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Randy VanDeven

Director, Alumni Relations  
Derryle Peace

Assistant Vice President for Marketing Communication  
Randy Jolly
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<tr>
<td>Vice President</td>
<td>Mary W. Hendrix, Ph.D.</td>
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<td>Sharon Johnson, Ph.D.</td>
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<td>Brian Nichols, M.Ed.</td>
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<td>Stephanie Holley, M.Ed.</td>
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<td>Jody Todhunter, M.S.</td>
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<td>Tim Willett, M.Ed.</td>
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<td>Tina Boitnott, M.S., LPC, MCC</td>
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<td>Lisa Rhoades, B.S.</td>
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<td>Director, Children’s Learning Center</td>
<td>Robert Dotson, M.S.</td>
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<tr>
<td>Director, Diversity and Cultural Affairs</td>
<td>Amber Van Lue, M.S.</td>
</tr>
<tr>
<td>Coordinator, Greek Life</td>
<td>Veronica Reed, M.S.</td>
</tr>
<tr>
<td>Director, Trio Programs</td>
<td>Leigh Ann Powell, M.S.</td>
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<tr>
<td>Coordinator, Disability Resources and Services</td>
<td>John M. Jones, M.S.</td>
</tr>
<tr>
<td>Director, International Student Services</td>
<td>Sarah White, B.S.</td>
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<tr>
<td>Director, Summer Camps &amp; Conferences, UIL</td>
<td>Corinne Shipman, M.B.A., MS</td>
</tr>
<tr>
<td>Coordinator, Community College Outreach</td>
<td>SuzAnne Keifer</td>
</tr>
<tr>
<td>Director Mesquite Partnership</td>
<td>Tommy Wardell, M.E.d., Interim</td>
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<tr>
<td>Director Navarro College Partnership</td>
<td>Cynthia Thayer, M.E.d</td>
</tr>
<tr>
<td>Coordinator, Midlothian Partnership</td>
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</tbody>
</table>
Faculty and Professional Librarians

Faculty lists:

- A through I
- J through R
- S through Z

Regents Professors

1995 Dr. Dev R. Chopra, Professor, Physics
1995 & 1997 Dr. James A. Grimshaw, Professor, Literature and Languages
2000 Dr. Augustine C. Arize, Professor, Business Administration and Management Information Systems
2003 Dr. Kenneth R. Ashley, Professor, Chemistry
2005 Dr. Wayne Linek, Professor, Curriculum and Instruction
2008 Dr. Theodore Hansen, Music
2009 Dr. Stuart Anderson, Professor, Mathematics

Mayo Professors

2000 Dr. Ann Moseley, Literature and Languages
2005 Dr. Richard Fulkerson, Literature and Languages

Professor Emeriti

1978 Dr. Otha Spencer, Professor, Journalism
1983  Dr. Arthur M. Pullen, Professor, Biology
1984  Dr. Paul H. Roosevelt, Professor, Speech and Hearing
1984  Dr. Bradley Stuart Chilton, Professor, Educational Administration
1987  Dr. William L. Dorries, Professor, Economics
1992  Dr. Harold Murphy, Professor, Counseling and Guidance
1994  Dr. Dorys C. Grover, Professor, Literature and Languages
1994  Dr. Johnye C. Sturcken, Professor, Literature and Languages
1995  Dr. Roger K. Arnold, Professor, Agricultural Sciences
1995  Dr. Paul Johnson, Professor, Counseling and Guidance
1995  Dr. Kenneth R. McCord, Professor, Accounting
1995  Dr. Kenton E. Ross, Professor, Accounting
1996  Dr. Loren E. Betz, Professor, Educational Administration
1996  Dr. Mamie Hafner, Professor, Literature and Languages
1996  Dr. Miroslav Hanak, Professor, Literature and Languages
1997  Dr. Dorothy Ingram, Professor, Health, Kinesiology and Sports Studies
1998  Dr. William C. Adams, Professor, Economics and Finance
1998  Dr. Robert M. Noe, Professor, Marketing and Management
1998  Dr. Dale Bedgood, Professor, Mathematics
1998  Dr. Frank Lutz, Professor, Educational Administration
1999  Dr. Donald R. Hakala, Professor, Finance
1999  Dr. Suzanne McCall, Professor, Marketing and Management
1999  Dr. Donald Reynolds, Professor, History
1999  Dr. John Lamb, Jr., Professor, Mathematics
2000  Dr. Glenn Fournet, Professor, Psychology
2000  Dr. A. Lynn Turner, Professor, Educational Administration
2000  Dr. Max E. Jobe, Professor, Educational Administration
2000  Dr. Harry E. Wade, Professor, History
2000  Mr. Joe Fred Cox, Assistant Professor, History
2001  Dr. Maximino Plata, Professor, Psychology and Special Education
2004  Dr. Fred Tarpley, Professor, Literature and Languages
2004  Dr. Jerry B. Hutton, Professor, Psychology and Special Education
2004  Dr. Edward H. Seifert, Professor, Educational Administration
2004  Dr. Ruth Ann Stephens, Professor, Educational Administration
2005  Dr. Morag Harris, Associate Professor, Counseling
2006  Ms. Georgia Anne Bomar, Associate Professor, Theatre
2007  Dr. James A. Grimshaw, Jr., Professor, Literature and Languages
2007  Dr. Wendell Edwards, Professor, Accounting
2007  Dr. Charles Elliott, Professor, Political Science
2007  Dr. Charles Embry, Professor, Political Science
2008  Dr. W.R. Ogden, Professor, Educational Leadership
2008  Dr. Dev Chopra, Professor, Physics
2009  Dr. Paul Zelhart, Professor, Psychology
2009  Dr. Maria dos Santos, Professor, Literature and Languages
2009  Dr. Ann Moseley, Professor, Literature and Languages
2009  Dr. Jim Reynolds, Professor, Literature and Languages
2009  Dr. Richard Tuerk, Professor, Literature and Languages
2009  Dr. Bobby Carmichael, Professor, Accounting
2009  Dr. Richard Fulkerson, Professor, Literature and Languages

**Other Emeriti**

1995  Dr. Trezzie A. Pressley, Dean Emeritus, College of Business and Technology
2002  Dr. Donald R. Coker, Provost Emeritus
The College of Arts and Sciences functions as the hub of the university through its many departments and areas of study. Curricular goals and learning outcomes promoted in these programs assure a well-rounded education in the liberal arts tradition. We provide a strong emphasis on discipline-based scholarship, plus challenging opportunities to consider and construct solutions to issues facing our increasingly complex, multidisciplinary world. University Studies courses offered by the College form the academic foundation for undergraduate students across the University. The College also offers a wide variety of pre-professional and professional programs while supporting the College of Education and Human Services by offering most of the content areas for teacher education. The undergraduate degree programs are designed to prepare students for entry-level careers or admission to graduate or professional schools. Our mission is to serve our students, communities, and region by providing and promoting academic programs characterized by innovation vision, multiples scales of excellence, and a commitment to literacy, justice, and civic responsibility.

The general requirements for admission to the programs of the College of Arts and Sciences are the same as those for Texas A&M University-Commerce as a whole.

Pre-Professional Programs in Arts and Sciences

While the College of Arts and Sciences does not offer degrees in several professional programs, the college does administer course curricula designed to prepare students for entry into the Professional School of their choice. At present, the College of Arts and Sciences offers pre-professional course work in the following areas: law, medicine, osteopathy, dentistry, dental hygiene, optometry, veterinary medicine, nursing, pharmacy, medical technology, health information management, physical therapy, physician’s assistant, wildlife, and engineering. For the health-related professions a campus committee, the Pre-Professional Committee coordinates curriculum planning for the student.

A pre-professional program is not a major. Pre-professional programs do not fulfill all degree requirements of the university and no degree is granted on completion. Students intending to pursue a pre-professional program of study and who desire
financial aid should consult prior to enrollment with the Office of Financial Aid with regard to regulations related to having a declared major.

**Pre-Professional Committee**

Chairman: John Slovak, Department of Biological and Environmental Sciences, 903-886-5378

The Pre-Professional Committee consists of all program advisors and several at large representatives from academic areas of business, liberal arts, education, and the sciences. This committee recommends implementation policy and monitors all preprofessional curricula as to course content, student advising, student progress, and assists the student in attaining his/her career goals.

**Agricultural Sciences**

Departmental Website

Heitholt (Head), Crenshaw, Ellason, Evans, Harp, Jones, Lopez, Ribeiro, Walton, Williams

Ag Building, Room 119, 903-886-5358

The Department of Agricultural Sciences offers degrees at both the baccalaureate and master’s levels. A Bachelor of Science degree can be earned in several different majors, as described below. The Department offers the Master of Science degree with a major in agricultural sciences and Master of Education in Agricultural and Family Education. For further information about graduate programs, please refer to the *Graduate Catalog*.

**Majors in Agricultural Sciences**

*Students seeking a bachelor’s degree in any of the following majors must complete:* (1) general requirements for a Bachelor of Arts or Science degree, and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

- AgriBusiness B.S.
- Agricultural Science and Technology B.S. - Emphasis in Ornamental Horticulture
- Agricultural Science and Technology B.S. - Industry Emphasis
- Agricultural Science and Technology B.S. - Teacher Certification Option
- Agricultural Science B.S. - Broadfield
- Agricultural Science B.S. Emphasis in Agricultural Economics
- Agricultural Science B.S., Emphasis in Plant and Soil Science
- Animal Science B.S.
- Wildlife and Conservation Science Broadfield Major B.S.
- Radio Television and Agricultural Sciences Double Major

**Pre-Professional Program for Veterinary Medicine**

The Department also supervises undergraduate pre-professional programs in veterinary medicine. Students are advised to follow the pre-professional curriculum as well as pursue a degree in a related field in case the student chooses an alternative career path. Students selecting one of these pre-professional programs will be trained in biological, animal, chemical and physical sciences. For further information about these programs, refer to the preceding pages under the College of Arts and Sciences heading.
Teacher Education Programs

Student Interested in becoming a middle or high school teacher of Agricultural Science and Technology should contact Dr. Bob Williams (903-886-5350), the faculty advisor for specific information and appropriate course selection.

Minors in Agricultural Sciences

The Department offers a minor in:

- Agricultural Economics
- Agricultural Education Minor
- Animal Science Minor
- Equine Science Minor
- Equine Studies Minor
- Family and Consumer Sciences Minor
- Plant and Soil Science Minor

Art

Daun (Head), Durkin, Frey, Huber, Miller, Odom, Scott, Smith, Wadley, Wascovich

Main Office is in the Art Building, Room 104, 903-886-5208, Fax 903-886-5987

General Information: Art@tamu-commerce.edu
Graduate Student Advisor: Michael Miller, 903-886-5242, Michael_Miller@tamu-commerce.edu
Director of Communication Arts, Universities Center at Dallas: Lee Whitmarsh, 214-752-9009, Fax 214-752-9059, Lee_Whitmarsh@tamu-commerce.edu
Teacher Certification Coordinator: William Wadley, 903-886-5203, William_Wadley@tamu-commerce.edu
Photography Coordinator: Chad Smith, 903-886-5232, Chad_Smith@tamu-commerce.edu
Art Web Site: http://www.tamu-commerce.edu/art/

Mission Statement: The Department of Art inspires and prepares students to excel in the art profession, including the fine and applied arts, art history, and art teaching fields and also expands the educational experiences of nonmajors.

The Department of Art offers a comprehensive undergraduate curriculum in the visual arts leading to the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Fine Arts. Subsequent acceptance into the graduate program allows students to pursue the degrees of Master of Science, Master of Arts, and Master of Fine Arts. Majors receive broad-based instruction in the foundation areas and proceed through increasingly specialized programs of study that emphasize personal concepts and technical refinement.

Bachelor of Science and Bachelor of Arts degrees are offered in Art, Photography, and Teacher Certification. Bachelor of Fine Arts degrees are offered in Studio Arts with emphasis areas in Ceramics, Experimental Studies, Painting, and Sculpture. The BFA is also offered in Art Direction, Design Communications, New Media and Communication Arts with emphasis areas in either Copywriting or Illustration. The Bachelor’s degree in Photography emphasizes applied photography and placement of graduates in professional positions.

The Bachelor of Fine Arts degree in Communication Arts, i.e., Art Direction, Design Communications, New Media, and Communication Arts (emphasis in Copywriting or Illustration) prepares students for careers in the advertising industry.
Advanced courses in these areas are offered at the Universities Center at Dallas, where new facilities, field trips and internships keep students abreast of the latest trends and technologies in the rapidly-growing field of Communication Arts.

The Department of Art utilizes several buildings on campus for its many different programs and courses, including the University Gallery which hosts an annual series of exhibits of interest to the University and the surrounding area.

Transfer of Art Credits from Other Institutions

Students wishing to transfer art credits to A&M-Commerce will have their transcripts evaluated by the Office of Admissions and the Department of Art. Courses taken at other institutions that have no exact equivalents at A&M-Commerce may still be transferrable by a portfolio review into the Department of Art. Transfer courses counted towards a major at A&M-Commerce must have a grade of “C” or higher. Transfer credits in Photography are not routinely accepted towards the Bachelor’s degree. However, A&M-Commerce has established a 2-plus-2 program with Collin College in Photography facilitating the evaluation of course credits and ease of transfer for students from that institution. Transfer students from other institutions must request a portfolio evaluation with the Photography faculty in order to determine the acceptability of their undergraduate work as elective credit or, in approved cases, in place of Photography courses. This evaluation must be scheduled before or during the registration period preceding the student’s first semester at A&M-Commerce. Transfer courses counted toward a major at A&M-Commerce must have a grade of “C” or higher. Transfer credits in Photography are not routinely accepted towards the Bachelor’s degree. However, A&M-Commerce has established a 2-plus-2 program with Collin College in Photography facilitating the evaluation of course credits and ease of transfer for students from that institution. Transfer students from other institutions must request a portfolio evaluation with the Photography faculty in order to determine the acceptability of their undergraduate work as elective credit or, in approved cases, in place of Photography courses. This evaluation must be scheduled before or during the registration period preceding the student’s first semester at A&M-Commerce. Transfer courses counted toward a major at A&M-Commerce must have a grade of “C” or higher. Students seeking a bachelor’s degree in any of the following majors must complete: (1) degree requirements for a Bachelor of Arts, Bachelor of Science or Bachelor of Fine Arts and (2) University Studies requirements (refer to those sections of this catalog). In addition, majors must earn a grade of “C” or better in all Art and Photography courses counted towards graduation requirements.

Teacher Education Programs

Students seeking a bachelor’s degree in any of the following teacher education programs must complete: (1) degree requirements for a Bachelor of Arts or Science degree (refer to the bachelor’s degree requirements section of this catalog), (2) University Studies requirements (refer to that section of this catalog), (3) requirements for admission to and retention in the Teacher Education Program (refer to the information on Educator Certification and Academic Services in this catalog), and (4) professional development courses (refer to the appropriate departmental section in this catalog, i.e. Department of Elementary Education or Department of Secondary and Higher Education). In addition, courses in the major must be completed as shown below.

Biological and Environmental Sciences

Kopachena (Head), Cain, Fox, Hanna, Lee, Miskevich, Slovak

Science Building, Room 260, 903-886-5378, Fax 903-886-5997

The Department of Biological and Environmental Sciences offers the Bachelor of Sciences and the Bachelor of Arts in Biological Sciences, Bachelor of Science in Environmental Science, and Bachelor of Science in Wildlife and Conservation Science. The department also offers minors in Biology and Environmental Sciences. The programs include teacher certification in 8-12 life
science and pre-professional programs in medicine, allied health, pharmacy, dentistry, osteopathy, optometry, nursing, medical technology, and physical therapy.

Graduate programs in the Department of Biological and Environmental Sciences include a Master of Science degree in Biological Sciences, a Graduate Certificate in Environmental Sciences, and a Master of Education in Biological Sciences.

Graduates from the department are academically prepared for graduate schools and for careers in education, industry, and government.

Students seeking a bachelor’s degree in the following majors must complete: (1) degree requirements for a Bachelor of Arts or Science degree and (2) University Studies requirements (refer to those sections of this catalog).

II. Major in Biological Sciences

The Department of Biological and Environmental Sciences offers a general degree in the biological sciences. This program provides a comprehensive overview of biological sciences, working from the molecular level up through ecosystems. The program is suitable for students who are interested in the biological sciences, who are interested in a career in biological research, or who may be applying toward candidacy in some of the Allied Health Sciences fields. Students interested in the program are encouraged to talk to one of the advisors: Dr. Michael Hanna (903-468-6064), Dr. Frank Miskevich (903-468-3116), or Dr. J.P. Slovak (903-886-5368).

II. Major in Pre-Medical Biological Sciences

The Department of Biological and Environmental Sciences offers a Pre-Medical degree in the biological sciences. The program provides a comprehensive background in the principles and processes of biology and biological research. This program is necessary for those students who want to enter into a medical school or a pre-professional school in the Allied Health Sciences. Students interested in the program are encouraged to talk to one of the advisors: Dr. Michael Hanna (903-468-6064) or Dr. J.P. Slovak (903-886-5368).

IV. Major in Pre-Physical Therapy Biological Sciences

The Department of Biological and Environmental Sciences offers a Pre-Physical Therapy degree in the biological sciences. This program is designed specifically for students who want to enter into Physical Therapy Schools. Students interested in the program are encouraged to talk to one of the advisors: Dr. Michael Hanna (903-468-6064) or Dr. J.P. Slovak (903-886-5468).

V. Major in Environmental Sciences

This unique program is designed for students who wish to work in the growing field of environmental science. Graduates of this program work for private environmental companies, with corporations, or with Federal, state, county, or civic governments. Students interested in the program are encouraged to talk to the program advisor: Dr. Haydn A. "Chip" Fox (903-886-5442). (Note: All environmental science majors are required to establish an online portfolio within a month of declaring their major. The portfolio is to be maintained the entire time the student is enrolled in the environmental science program. For information on establishing your portfolio, please e-mail Dr. Haydn A. "Chip" Fox at: Haydn_Fox@tamu-commerce.edu)

VI. Major in Wildlife and Conservation Science

The Department of Biological and Environmental Sciences offers a program in Wildlife and Conservation Science. This program is designed for students interested in Wildlife Management, Ecology, or the preservation of biodiversity. The program is
designed around the requirements established by The Wildlife Society and the U.S. Fish and Wildlife Service. Graduates of this program are qualified to work for private, state, and Federal agencies. In addition, students graduating from this program can proceed into a graduate program for further professional development. Students interested in the program are encouraged to talk to an advisor: Dr. James Cain (903-468-3271) or Dr. Jeff Kopachena (903-468-8730)

VII. Teacher Education Programs

Students seeking a bachelor's degree in the following teacher education program must complete: (1) degree requirements for a Bachelor of Arts or Science degree (refer to the bachelor's degree requirements section of this catalog), (2) University Studies requirements (refer to that section of this catalog), (3) requirements for admission to and retention in the Teacher Education Program (refer to the Center for Educator Certification and Academic Services section of this catalog), and (4) professional development courses (refer to the appropriate departmental section in this catalog, i.e. Department of Curriculum and Instruction or Department Educational Leadership. In addition, courses in the major must be completed as shown below. "B.S. in Biological Sciences: Secondary Certification: (Grades 8 - 12) Life Sciences" For required courses see the academic advisor, Dr. J.P. Slovak (903-886-5368).

VIII. Other Programs

Students can choose from a variety of other options depending on their academic requirements. The Department of Biological and Environmental Sciences offers the following additional programs:

Other Pre-Allied Health Programs

Second Major in Biological Sciences

Minor in Biology

Minor in Environmental Science

Chemistry

Jang, Angel, Kostic, Starnes

Science Building, Room 318, 903-886-5392

The professional degree program in the Department of Chemistry is approved by the American Chemical Society and has been designed to provide in-depth chemical education for students. Three programs of study for a bachelor's degree with a major in chemistry are provided to meet the different career goals of the candidate as identified below.

Students seeking a bachelor’s degree in the following major must complete: (1) degree requirements for a Bachelor of Arts or Science degree and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below. Transfer students are required to complete a minimum of Chemistry 351 and 18 semester hours of advanced Chemistry for a major and Chemistry 340 and 4 semester hours of advanced chemistry for a minor at A&M-Commerce.

The department offers accelerated five-year BS and MS degrees for freshmen and three-year BS and MS degrees for transfers. Please see departmental advisers for consultation.
Teacher Education Programs

*Students seeking a bachelor’s degree in any of the following teacher education programs must complete:* (1) degree requirements for a Bachelor of Arts or Science degree (refer to the bachelor’s degree requirements section of this catalog), (2) University Studies requirements (refer to that section of this catalog), (3) requirements for admission to and retention in the Teacher Education Program (refer to the Center for Education and Academic Services section of this catalog), and (4) professional development courses (refer to the appropriate departmental section in this catalog, i.e. Department of Elementary Education or Department of Secondary and Higher Education). In addition, courses in the major must be completed as shown below. **Grades 4-8 Science Certification:** For required courses see appropriate advisor in the Department of Elementary Education.

Computer Science and Information Systems

Suh (Department Head), Arslan, Brown, Creider, Harter, Huerter, Mete, Saffer, Sirakov, Xiong

Journalism Building, Room 122, 903-886-5409

Vicki_Anderson@tamu-commerce.edu

The Department of Computer Science and Information Systems offers two academic programs, the Bachelor of Science (B.S.) with a major in computer science and the Bachelor of Science in Computer Information Systems (B.S.C.I.S.).

The Bachelor of Science with a major in Computer Science degree prepares the student for a wide variety of applications found within the diverse computer science field. Students complete a core of computer science foundation courses and an area of specialization such as Networking, Database Management, Programming, or Information Assurance and Security. This curriculum prepares students for a broad range of careers, including systems analyst, application software developer, software engineer, computer engineer, technical writer, system designer, security administrator, computer security specialist, database administrator, network administrator, network security specialist, simulation/modeling developer, and graphics/animation developer.

The Bachelor of Science in Computer Information Systems degree prepares the student for a wide variety of applications found within the diverse computing and information technology field. Students complete a core of computer information systems foundation courses and an area of specialization such as Networking, Database Management, or Programming or Information Assurance and Security. This curriculum prepares students for a broad range of careers, including systems analyst, database programmer, database administrator, network administrator, business applications developer, technical writer, and systems designer.

This department also offers a Bachelor of Science in Computer Information Systems degree with secondary teacher certification in Computer Science for persons interested in teaching computer science at the secondary school or community college level. In addition, the department offers second majors in computer science and computer information systems as well as a minor in computer science so that students may acquire computer science fundamentals relevant to their respective academic majors.

Students will be trained on modern equipment having wide industry acceptance in areas such as operating systems, communications, database, simulation, networks, information security, and programming languages. Students also have access to a variety of laboratory and microcomputer equipment.

*Students seeking a bachelor’s degree in any of the department majors must complete:* (1) degree requirements for a Bachelor of Science in Computer Science or Bachelor of Science in Computer Information Systems degree and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.
Students seeking a bachelor’s degree in the following teacher education program must also complete (1) degree requirements for a Bachelor of Science in Computer Information Systems degree with secondary certification (refer to the bachelor’s degree requirements section of this catalog), (2) University Studies requirements (refer to that section of this catalog), (3) requirements for admission to and retention in the Teacher Education Program (refer to the Center for Educator Certification and Academic Services section of this catalog), and (4) professional development courses (refer to the Department of Secondary and Higher Education in this catalog). In addition, core courses in the major must be completed.

**History**

Ford, Bergman, Dobbs, Gruver, Kowalsky, Kuracina, McFarland, Smith

Ferguson Social Sciences Building, Room 111, 903-886-5226

Department Head: Judy_Ford@tamu-commerce.edu
Graduate Studies Advisor: John_Smith@tamu-commerce.edu

The Department of History offers the B.A., B.S., M.A., and M.S. degrees. Several of the baccalaureate degrees may be taken with teacher certification. The objectives of the history department are to acquaint students with the human past, give insight into the nature of the historic process, and prepare them for responsible democratic citizenship. In addition, an effort is made to inculcate in students the ability to analyze and think critically about historical works and issues, as well as to express their judgments clearly in writing.

Recognizing that the mastery of the subject of history is a lifelong pursuit, the department has designed a program that includes a core of common courses for all students and a range of courses in selected areas from which students may choose. All majors and second majors in history are expected to complete survey courses in U.S. and World History as well as a workshop course that focuses on historical methodology and an upper division Themes in World History course. Students then may choose a stipulated number of courses in the areas of American, European, Asian, and Latin American history.

Students may use their B.A. or B.S. degrees in history as preparation for a variety of careers, in addition to teaching. Museum and archival work, government service, law, politics, publishing, genealogical services, and public relations are just a few of the fields in which historians may make careers.

While there is not agreed upon “core curriculum” in history in which one may demonstrate competency in a single exam, students will demonstrate their competency in critical thinking, analysis, writing skills, and the articulation of ideas by satisfactorily completing the requirements of each course. First or second majors who are enrolled in the teacher education program must pass a “TExES” exam, designed by the Texas Education Agency, before they may be certified as teachers. In addition, all students must take an assessment exam upon applying for graduation as part of the ongoing departmental program review process.

For information about graduate programs, refer to the Graduate Catalog.

*Students seeking a bachelor’s degree in the following majors must complete:* (1) degree requirements for a Bachelor of Arts or Bachelor of Science degree and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

**Teacher Education Programs**

Students seeking a bachelor’s degree in any of the following teacher education programs must also complete: (1) degree requirements for a Bachelor of Arts or Science degree (refer to the bachelor’s degree requirements section of this catalog), (2) University Studies requirements (refer to that section of this catalog), (3) requirements for admission to and retention in the Teacher Education Program (refer to the Center for Educator Certification and Academic Services section of this catalog), and (4) professional development courses (refer to the appropriate departmental section in this catalog). In addition, courses in the major must be completed as shown below.
Students in the Teacher Education Program who elect to take a B.A. degree must complete four courses (12 hours) in the same foreign language. This requires selecting as electives four courses in a foreign language. Foreign language credit is not required for the B.S. degree; however, in view of the increasingly multi-cultural composition of this state’s population, the department encourages future teachers to fulfill the language requirements of the B.A. degree.

**Liberal Studies**

Derek Parker Royal (Director, Literature and Languages), John Smith (History), William Wadley (Art), Robert Williams (Agricultural Sciences), Raymond Green (Psychology and Special Education), Maribeth McAnally (Applied Sciences)

Ag/IT Building, Room 109, 903-886-5621

LiberalStudies@tamu-commerce.edu
http://www.tamu-commerce.edu/liberalstudies/

Liberal Studies is an interdisciplinary undergraduate program that offers both the Bachelor of Science and Bachelor of Arts degrees. Pulling from all areas of traditional university learning—the humanities, fine arts, the social sciences, math, and the natural sciences—Liberal Studies encourages the kind of learning valued today by many educators and employers. The diverse nature of the program prepares students in the areas of communication skills, critical thinking, and the ability to master new subjects, ideas, and skills. Its flexible yet coherent degree program is made up of courses taught through traditional classroom methods as well as through non-traditional instruction, such as distance education and online teaching.

Although not intended to train or encourage proficiency in any narrowly defined academic field, the Liberal Studies program encourages students to learn more about themselves and their world using a variety of disciplinary approaches. As such, it provides an opportunity to explore new modes of thinking, creative ways of asking questions, and unconventional means of problem solving. The program is designed to promote personal and intellectual growth that is not only enriching in its own right, but one that helps ensure success in careers and post-baccalaureate studies. Graduates seeking advanced degrees in such areas as education, law, communications, and business will find that a bachelor’s in Liberal Studies lays the groundwork for further educational advancement. What is more, the program’s flexibility is ideally suited for students wanting to acquire the broad-based knowledge and skills that are increasingly demanded by today’s workplace.

**Literature and Languages**

Attardo, Adkins, Baumgardner, Bolin Carter, Duchovnay, Dunbar-Odom (Head), Fernandez-Babineaux, Hervas, Hayes, Jacobs, Lyons, MacAde, Pickering, Reid, Roggenkamp, Seminet, Stewart (Asst. Dept Head),

Hall of Languages, Room 141, 903-886-5260/5253

Department Head: Donna_Dunbar-Odom@tamu-commerce.edu
Director, Communication Skills Center: Tabetha_Adkins@tamu-commerce.edu
Web Site: www.tamu-commerce.edu/litlang

The Department of Literature and Languages is a merger of English, linguistics, foreign languages, and philosophy, and affords opportunities to the student for academic enrichment through diverse offerings and an international faculty.

Degrees awarded are the Bachelor of Arts in English and Spanish; the Master of Arts and Master of Science degrees in English; the Master of Arts in Spanish; and the Ph.D. in English.

Courses in the Department of Literature and Languages improve the reading, writing, and analytical skills of students, offer insight into the use and structure of language, develop an understanding and appreciation of literature, and explore film as an art form. The programs offered for non-teaching majors are designed to prepare students to enter graduate study, or as basic preparation for professions such as law, publishing, ministry, broadcasting, government, advertising, free-lance writing, creative
writing, and business. The programs prepare students to write effectively, to think and read critically and analytically, and to understand cultural and social differences.

**English**

In order to secure a well-balanced program, students majoring or minoring in English will elect their courses in accordance with the following plans of study:

- Liberal Arts and Pre-Professional Major in English
- Second Major, or Minor, in English
- Teaching ESL Minor

*Teacher Education Program*

- Secondary Teacher Certification, Grades 8-12
- Middle Level Teaching Field in English/Language Arts/Reading, Grades 4-8
- English as a Second Language Endorsement

*Students seeking a bachelor’s degree in the following major must complete:* (1) degree requirements for a Bachelor of Arts degree and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

**English Honors Program**

Candidates for the Honors Program in English should apply to the honors adviser for admission to the Honors Program during the last half of the sophomore year.

**Teacher Education Programs in English/Language Arts**

*Students seeking a Bachelor’s of Arts degree in any of the following teacher education programs must complete:* (1) degree requirements for a Bachelor of Arts degree (refer to the bachelor’s degree requirements section of this catalog); (2) University Studies requirements (refer to that section of this catalog); (3) requirements for admission to and retention in the Teacher Education Program (refer to the Center for Educator Certification and Academic Services section of this catalog); and (4) professional development courses (refer to the appropriate departmental section in this catalog, e.g., Department of Elementary Education or Department of Secondary and Higher Education). In addition, courses in the major must be completed as shown below.

Students desiring concentrated study in English should choose one of the following:

- Teacher Education Programs (English):
- Secondary Education, Grades 8-12
- Middle Level English/Language Arts/Reading, Grades 4-8
- English as a Second Language Endorsement

**TExES and Teacher Certification**

Students seeking certification in English/Language Arts/Reading should consult with the TExES adviser for English in the department as early as possible, but no later than the beginning of their junior year.

**Foreign Languages and Linguistics**
This section of the Department of Literature and Languages offers instruction in understanding and speaking, reading, and writing as well as the study of literature in French and Spanish. The emphasis in all courses is on the student’s ability to communicate adequately in a foreign language. Beginning courses emphasize speaking and understanding the language and the culture of people who use the language; advanced courses emphasize reading, writing, and speaking the language, as well as analyzing literature.

Advanced placement with credit is available for students who have begun French or Spanish in high school and have a score of three or above on the appropriate CEEB examination.

The foreign language staff is especially interested in developing teachers of foreign languages in both the elementary and secondary schools. Interdisciplinary Studies majors are encouraged to choose Spanish as an academic specialization.

Students who enter the University with previous high school or college credits or with native language proficiency and who wish to enroll in the same language normally should continue without repeating equivalent work. Equivalent courses in the same language may not be repeated for credit. However, students with language experience may enroll in equivalent courses in the same language on a non-credit basis. Students may also request a placement examination and interview to determine the status of their preparation. One high school unit (year) may be equivalent to one college semester upon approval of the department head.

The language requirement for a Bachelor of Arts degree may be satisfied by French or Spanish 131, 132, 231, 232, or the equivalent of these courses.

**Philosophy**

The philosophy offerings are designed to provide electives for students in any major area, but especially in the liberal arts. There are no formal prerequisites for any course.

The courses in philosophy introduce the student to some of the most enduring and challenging problems that we know and the attempts we have made to solve them. Students who take courses in philosophy enhance their ability to think critically and vigorously, analyze arguments, and express their views clearly and concisely, orally and in writing. Courses in philosophy are good preparation for students considering graduate studies, law, medicine, and work with government agencies and private corporations.

The University Studies requirement in behavioral science may be satisfied by completing Philosophy 251, and the University Studies requirement in Humanities and Fine Arts may be satisfied by completing Philosophy 231 or 331 or 332 or 360 or 362.

**Spanish**

Emphasis in Liberal Arts and Pre-Professional Programs Courses in Spanish enable the student to learn the Spanish language and become familiar with Hispanic culture. Majors in Spanish also study the outstanding figures of Spanish and Latin American literature and civilization and are prepared for careers in teaching, government service and private corporations. Students may choose to major or minor in Spanish. The plans of study include the following:

- Major in Spanish
- Second Major in Spanish
- Minor in Spanish

Students seeking a bachelor’s degree in the following non-teacher education major must complete: (1) degree requirements for a Bachelor of Arts degree and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

Note: Oral proficiency is an integral component of language instruction at Texas A&M-Commerce. Before credit or equivalency is given for a foreign language correspondence course, the student requesting such credit or equivalency must demonstrate satisfactory oral proficiency in the language as determined by the department head.
Foreign Language Honors Program in Spanish

Candidates for the Honors Program in Spanish should apply to the honors advisor for admission to the Honors Program during the last half of the sophomore year.

Teacher Education Programs in Spanish

Students may choose to major or minor in Spanish or to elect Spanish as their field in the teacher education program. The plans of study include the following:

- Secondary Education, Option I

Students seeking a bachelor’s degree in any of the following teacher education programs must complete: (1) degree requirements for a Bachelor of Arts or Science degree (refer to the bachelor’s degree requirements section of this catalog), (2) University Studies requirements (refer to that section of this catalog), (3) requirements for admission to and retention in the Teacher Education Program (refer to the Center for Educator Certification and Academic Services section of this catalog), and (4) professional development courses (refer to the appropriate departmental section in this catalog, e.g., Department of Elementary Education or Department of Secondary and Higher Education). In addition, courses in the major must be completed as shown below.

L.O.T.E and Teacher Certification

Students seeking certification in Spanish or French should consult with the Spanish and/or French advisor in the department as early as possible, but no later than the beginning of their junior year.

Students in the Secondary Spanish (8-12) program must meet all of the following department criteria in order to be approved to go into their internship semester. Students who fail to meet the department criteria will have to fulfill a department remediation plan before they can be approved for internship.

1. Complete all required course work, including a minimum of 12 hours of upperlevel (300-400) courses in Spanish while in residence at Texas A&M-Commerce. Study abroad hours will NOT count toward the 12 hour residency requirement.
2. A GPA of 3.0 or above in Spanish courses at the 300- and 400-level.
3. A “B” or above in the following courses: Spa 331 or 333, 332 or 334, 341, 353, 354, and 485 (senior seminar). Grades of “C” or lower in these courses will have to be repeated with a “B” or higher.
4. No more than two grades of “C” in ANY Spanish course whether taken at A&M-Commerce or at another university or college
5. An overall GPA of 3.0 in all Spanish and support course work (English 358, 457, 462).
6. A meeting with the Spanish Adviser prior to one’s senior year and preferably at the beginning of the junior year.
7. Take and pass the Pedagogy and Professional Responsibilities exam.

Mass Media, Communication, and Theatre

Dempsey (Head), Anderson, Ballotti, Bridges, Burton, Hanners, Klypchak, Knight, Sanders, Stewart

Performing Arts Center, Room 101, 903-886-5346

The Department of Mass Media, Communication and Theatre offers the Bachelor of Arts and Science degrees with majors in Journalism-News Editorial, Journalism-Public Relations, Radio-Television, Speech Communication, and Theatre. Master of Arts and Master of Science degrees are offered in theatre. Teacher certification at the secondary educational levels is also available.
The department consists of separate, but interrelated majors, with a strong liberal arts education, that prepare students for careers in journalism, communication arts and technologies and the performing arts.

*Students seeking a bachelor’s degree in any of the following non-teacher education majors must complete:* (1) degree requirements for a Bachelor of Arts or Science degree and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

**Teacher Education Programs**

Students seeking a bachelor’s degree in any of the following teacher education programs must complete: (1) degree requirements for a Bachelor of Arts or Science degree (refer to the bachelor’s degree requirements section of this catalog), (2) University Studies requirements (refer to that section of this catalog), (3) requirements for admission to and retention in the Teacher Education Program (refer to the Center for Educator Certification and Academic Services section of this catalog), and (4) professional development courses (refer to the appropriate departmental section in this catalog, i.e., Department of Elementary Education or Department of Secondary and Higher Education).

**Mathematics**

Anderson (Interim Head), Aslan, Coskun, Dorsett, Faulkenberry, Heath, Huse, Ou, Singleton, Sirakov, Un, Webster

Binnion Hall, Room 305, 903-886-5157

The Department of Mathematics offers the Bachelor of Science and Bachelor of Arts degree with a major in mathematics. This major prepares graduates for careers in industry, government, business, scientific and technological fields, computing and information science, actuarial work, and education. A graduate with a major in mathematics should possess the following competencies: calculus, discrete mathematics, and abstract algebra, as well as advanced electives.

The Bachelor of Science or Bachelor of Arts degree with a major in mathematics with teacher certification also is offered by the department. A student may select a broadfield major or select a field outside mathematics as a minor. This major prepares graduates for careers in teaching at the secondary level. A graduate with a major in mathematics should possess the following competencies: calculus, discrete mathematics, geometry, abstract and linear algebra, history of mathematics, and number theory.

*Students seeking a bachelor’s degree in the following major must complete:* (1) degree requirements for a Bachelor of Arts or Science degree and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

**Teacher Education Programs**

Students seeking a bachelor’s degree in any of the following teacher education programs must complete: (1) degree requirements for a Bachelor of Arts or Science degree (refer to the bachelor’s degree requirements section of this catalog), (2) University Studies requirements (refer to that section of this catalog), (3) requirements for admission to and retention in the Teacher Education Program (refer to the Center for Educator Certification and Academic Services section of this catalog), and (4) professional development courses (refer to the appropriate departmental section in this catalog, i.e., Department of Elementary Education or Department of Secondary and Higher Education). In addition, courses in the major must be completed as shown below.

**Guide for Initial Enrollment in Mathematics**
The Texas Higher Education Coordinating Board has ruled that a mathematics course taught in a college or university may count toward the baccalaureate degree requirements only if it has a prerequisite of high school Algebra II. Generally, students not taking Algebra II in high school will need remediation in college. A diagnostic test will be given to each entering student for initial placement in mathematics courses. (See “Basic Skills Policy.”)

Music

White (Head), Bryant, Burkett, Clark, Clements, Druhan, Goranson, Gorham, Hansen, Morrow, White, Witwer, Zator

Music Building, Room 230, 903-886-5303

The Department of Music is an accredited member of the National Association of Schools of Music and the Texas Association of Music Schools. The department offers two undergraduate degrees with majors in music (Bachelor of Science and Bachelor of Music) and one master’s degree with majors in music performance or education (Master of Music). The Department of Music also offers a minor in music for undergraduate students majoring in other disciplines.

The Bachelor of Science (BS) music degree, combined with Professional Education requirements, provides students with the information and skills to be a music educator at all levels and prepares them to take the exams for teacher certification in Texas. Though students are prepared to teach instrumental and vocal music at all grade levels, the curriculum allows them to select one of three areas of emphasis: (1) elementary general—preparation for teaching general music in the elementary grades, (2) secondary choral—preparation for organizing and directing choral organizations at the secondary level; or (3) secondary instrumental—preparation for directing bands and orchestras at the secondary level.

The Bachelor of Music (BM) degree designates an emphasis in performance (piano, voice, winds, or percussion) and prepares the students for careers as professional musicians in an orchestra, opera, ballet, recording studio, private studio, or military organization.

- **University Studies (43 sh)**
  - Refer to University Studies Requirements
  - **Visual and Performing Arts option**: Mus 110 (3 sh)
  - **Physical Education option**: Music 100, Marching Band (2 sh)

Music requires disciplined skill development and careful sequencing of specific courses. Starting with the freshman year, students enroll in two University Studies courses per semester with the balance of coursework in music. This pattern continues throughout the degree program. Additional non-music courses may be required to satisfy deficiencies. Due to the substantial degree requirement, summer school is frequently encouraged.

Major in Music Education

Students seeking a bachelor’s degree in any of the following teacher education programs must complete: (1) degree requirements (Music Core and Music Emphasis; see below) for a Bachelor of Science in Music with All-Level Teacher Certification degree, (2) University Studies requirements, (3) requirements for admission to and retention in the teacher education program, and (4) professional development courses. (For admission requirements to the teacher education program and teacher certification requirements please see the College of Education section of this catalog.) Students electing to pursue the Elementary General Emphasis must take emphasis courses according to their major performance medium (voice or instrument). Keyboard majors must declare an instrument or voice as minor applied and as their area music education emphasis.

Ensembles

The bands, choirs, and other ensembles are open to all students upon audition. These ensembles carry one hour credit each semester. Non-music majors may count ensemble credits as elective or minor credits toward graduation. Two Marching Band credits will substitute for two semester hours of University Studies Fitness and Recreation requirement. Other instrumental and
vocal ensembles give students the opportunity to perform specialized literature. Music majors must enroll for a principal ensemble each semester until all music degree requirements are met or until the semester of practice teaching. Principal ensembles include Chorale, University Choir, Wind Ensemble and Symphonic Band. All instrumental music majors are required to participate in Marching Band for four semesters. One or two additional ensembles may be elected and/or stipulated by the student’s advisor in order to ensure appropriate experience and adequate instrumentation.

**Applied Music**

**Private Instruction**

Private instruction in applied music is offered each term. Each credit hour involves one 30-minute private lesson per week and requires a minimum of six hours practice each week. A maximum of three semester credit hours may be taken in a long semester. During the summer sessions, a maximum of one credit hour may be taken in each summer term. A jury exam will be given at the end of each long semester and at the end of summer school in music 151, 152, 351, and 352 unless waived by the applied music faculty. Music majors without basic skills may be required to take additional instruction beyond what is suggested in degree outlines to meet proficiency requirements for various majors.

**Physics and Astronomy**

Bao-An Li (Head), Bertulani, Chourasia, Doughty, Henderson, Rogers, West

Science Building, Room 123, 903-886-5488

The Department of Physics & Astronomy offers majors and minors for the Bachelor of Science and the Bachelor of Arts degrees. Curriculum has been designed for degrees with or without teacher certification. The department provides instruction in physics, applied physics, engineering, astronomy, computational physics, and microelectronics.

The physics and applied physics major curriculum are designed for students wishing careers as professional physicists or who wish to continue their studies at the graduate level in a number of technical areas including engineering. This program prepares students for industrial employment or other careers which utilize analytical or problem solving skills. The various teacher education curriculums are designed for pre-college teachers of science.

The physics department and computer science department jointly offer a series of courses in the fields of microcomputers, electronics, and signal processing for students who wish to prepare for careers in scientific data analysis, computer or computer-based scientific instrumentation, or telecommunications.

*Students seeking a bachelor’s degree in the following majors must complete:* (1) degree requirements for a Bachelor of Arts or Science degree and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

**Teacher Education Programs**

Secondary certification to teach physics and chemistry is achieved through completing the Major in Physical Science program. Secondary certification for teaching all sciences including physics, chemistry, and biology is achieved through completing the Major in Chemistry program.

The physics department participates fully in certification programs for K-4 teachers in cooperation with the elementary education department. Students interested in grades 4-8 certification in science and math-science are also directed to the appropriate advisor in elementary education.
Students seeking a bachelor’s degree in any of the following teacher education programs must complete: (1) degree requirements for a Bachelor of Arts or Science degree (refer to the bachelor’s degree requirements section of this catalog), (2) University Studies requirements (refer to that section of this catalog), (3) requirements for admission to and retention in the Teacher Education Program (refer to the Center for Educator Certification and Academic Affairs section of this catalog), and (4) professional development courses (refer to the appropriate departmental section in this catalog, i.e. Department of Elementary Education or Department of Secondary and Higher Education). In addition, courses in the major must be completed as shown below.

**Political Science**

DiGeorgio-Lutz (Head), Herndon, King, Lenchner

Ferguson Social Sciences Building, Room 152, 903-886-5317

The Department of Political Science offers undergraduate programs leading to the B.A. and B.S. degrees, including a traditional political science degree and a degree with an emphasis in paralegal studies. The Department also offers, in conjunction with the Department of History, a degree leading to a Bachelor’s degree with a Provisional Teaching Certificate. While the B.S. curriculum is available, the B.A. program is recommended for all political science majors since it includes four semesters or the equivalent of foreign language.

Students seeking a bachelor’s degree in the following major must complete: (1) degree requirements for a Bachelor of Arts or Science degree and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below. No Political Science course grade lower than “C” will count toward a major, second major, or minor.

**Honors Program**

Special study opportunities are available through the Honors Program for qualified majors in political science. The major advisor and the director of the Honors Program should be consulted.

**Teacher Education Program**

*Students seeking a bachelor’s degree in the teacher education program must complete: (1) degree requirements for a Bachelor of Arts or Science degree (refer to the bachelor’s degree requirements section of this catalog), (2) University Studies requirements (refer to that section of this catalog), (3) requirements for admission to and retention in the Teacher Education Program (refer to the Center for Educator Certification and Academic Affairs section of this catalog), and (4) professional development courses (refer to the appropriate departmental section in this catalog, i.e. Department of Secondary and Higher Education).*

**Texas A&M University-Commerce**

Government/Political Science Course Combinations*

Texas Common Course Numbers (TCCNS) for government courses:

- GOVT 2301 American Government I (federal and Texas constitutions)
- GOVT 2302 American Government II (federal and Texas topics)
- GOVT 2305 Federal Government (federal constitution and topics)
- GOVT 2306 Texas Government (Texas constitution and topics)
Acceptable course combinations:
GOVT 2301 and 2302 (intended as a sequence)
GOVT 2305 and 2306 (intended as a sequence)
GOVT 2301 and 2305 (acceptable substitute sequence)
GOVT 2301 and 2306 (acceptable substitute sequence)

**Unacceptable course combinations (other than duplication):**
GOVT 2302 and 2305 (omits study of Texas constitution)
GOVT 2302 and 2306 (omits study of U.S. constitution)

*September 2004 Academic Course Guide Manual. NOTE: Because Texas Education Code; Subchapter F, Section 51.301 does not specify how the required course content should be distributed over the required six SCH, two instructional patterns, represented by the TCCN course sequences GOVT 2301 and 2302 or GOVT 2305 and 2306, have evolved among institutions. Because combination of a course from one sequence with a course from the other sequence may not successfully fulfill the content requirement of Section 51.301, students are urged to complete all six SCH within a single institution. Inevitably, however, students will seek to combine courses from the two sequences. The following alternative combinations will fulfill the content requirement of Section 51.301: GOVT 2301 and 2305; GOVT 2301 and 2306. The following combinations will not satisfy the content requirement of §51.301: GOVT 2302 and 2305 (omits study of the Texas constitution); GOVT 2302 and 2306 (omits study of the U.S. Constitution). **Students with credit for GOVT 2302 and 2305, GOVT 2302 and 2306, or equivalent combinations may satisfy the legislative requirement by earning credit for GOVT 2107, a 1 SCH course providing the required constitutional content missing from these two course combinations.)

Angelo State University
GOVT 2301
GOVT 2302

Abilene Christian University
POLS 225 (2305)
POLS 226 (2306)

Baylor University
PSC 1305 (2305)
PSC 1306 (2306)

Collin
GOVT 2301
GOVT 2302
Dallas Baptist University
POLS 2301 (2305)
POLS 2302 (2306)

DCCCD
GOVT 2301
GOVT 2302

Grayson County College
GOVT 2305
GOVT 2306

Hardin Simmons University
POLS 1301 (2305)
POLS 2301 (2306)

Midwestern State University
POLS 1333 (2301)
POLS 1433 (2302)

North Central Texas College
GOVT 2305
GOVT 2306

Oklahoma State University
POLS 2---- ****
POLS 1113 (2302)

Paris Junior College
GOVT 2305
GOVT 2306

Sam Houston State University
POL 261 (2301)
POL 285 (2302)

Southeastern Oklahoma State U.
****
POSC 1513 (2301, 2302, or 2305)

Southern Methodist University
PLSC 1320 (2301)
ENBLOC

SFA State University
PSC 141 (2301)
PSC 142 (2302)

Tarleton State University
GOVT 201 (2305)
GOVT 202 (2306)

Tarrant County College
GOVT 2305
GOVT 2306

Texas A&M University
POLS 206 (2305)
POLS 207 (2306)

Texas A&M-Commerce
If students have taken a Political Science or Government course at an out-of-state college or university, they must complete GOVT 2301 to meet the Texas state requirement.

*** TCU recommends that students take the government course requirement at TCU. Both of these courses together will fulfill
teacher certification requirements for the state.

**** No equivalent, but will fulfill general education requirement in Core Area III—Social Science or reevaluated.

***** No equivalent, but will fulfill general education requirement.

Sociology and Criminal Justice

Edwards (Head), Clinton, Matthei, McBroom, Schlager, Singh, Sun, Thompson, Wiecko, Villanueva-Russell

Ferguson Social Sciences Building, Room 210, 903-886-5332

The mission of the Department of Sociology and Criminal Justice is to provide quality learning experiences to equip students with social, intellectual, leadership, and critical thinking skills, preparing them for a global and diverse society.

The department offers several majors which prepare students for entry into a variety of careers or graduate professional study. In addition to a major and minor in sociology, students may select a broadfield major in criminal justice or a minor in criminal justice. Also, a number of courses in anthropology are offered in the department.

Although most courses are offered every semester (not including summer sessions), particular courses in sociology and criminal justice are offered alternating semesters. Please note the courses denoted with (1) are offered only during the fall semester, and those denoted with (2) are offered only during the spring semester.

- Courses transferred in from a Community College cannot count for a 300-400 level course.
- Fifteen Semester Hours in the major must be taken at Texas A&M University-Commerce.
- All courses in the major must be completed with a grade of "C" or higher.

College of Business & Technology

Harold P. Langford, Dean
Jerry D. Parish, Associate Dean

McDowell Business Administration Building, Room 215; 903-886-5191; Fax 903-886-5650

Careers in business, engineering, construction, and technology management offer exciting challenges and opportunities to well-prepared men and women.

The programs offered by the College of Business & Technology (CBT) are designed to provide successful academic experiences and to facilitate students’ abilities to perform responsibly and effectively in their chosen professional roles in business, industry, government, and education. Graduates generally are employed by banks, financial, service and investment firms, construction firms, engineering firms, manufacturing firms, real estate firms, public accounting firms, public utilities companies, estate and insurance agencies, savings and loan institutions, securities brokerage firms, community colleges, and state and federal government agencies.

The CBT curricula are designed to challenge and sustain the student’s intellectual curiosity while providing the general and specialized knowledge necessary for professional success, personal growth, and responsible citizenship. Specifically, the various programs have been developed to provide (a) a firm academic base supported by a strong general education foundation; (b) an understanding of the social, ethical, regulatory, global, political, and cultural environments within which American enterprise exists and operates; (c) an understanding of the major functional areas of business and industry; (d) an opportunity for specialized study; and (e) preparation for advanced graduate study. Students receiving BBA or the BS degree in Business Administration will demonstrate competencies in the common body of knowledge in business areas of financial and managerial accounting, the business environment and strategy, finance, behavior and organizational issues, marketing, management information systems, quantitative analysis, and production/operations management. Students receiving the BPA/ MBA (accounting) degree in Business Administration will achieve competencies in the undergraduate common body of knowledge of business and the core competencies in the bachelor of business administration degree with a major in accounting. In addition, they will achieve
competencies in auditing, advanced financial accounting, advanced income tax accounting, and the competencies outlined in the Master of Business Administration (MBA) degree.

As part of the commitment to quality education, the College of Business & Technology programs are designed to meet the needs of society, including the growing need for graduates to be computer literate. Accordingly, the programs offered provide students with an understanding of the capabilities and applications of computing systems as tools for improved decision-making. This understanding is achieved through a fundamental background in computer programming complemented by a variety of discipline-related applications. The College of Business & Technology’s instructional programs utilize extensive technology, computer and network resources to support all aspects of the academic and research programs.

Academic programs of study in business in the College of Business & Technology at Texas A&M University-Commerce are accredited by:

- The Association to Advance Collegiate Schools of Business (AACSB International)—undergraduate and graduate programs in business.
- Accreditation Board for Engineering and Technology (ABET, Inc.), 111 Market Place, Suite 1050, Baltimore, MD 21202—undergraduate program in Industrial Engineering, Telephone: 410-347-7700, www.ABET.ORG.

**Mission**

The College of Business & Technology is a scholarly and professional community dedicated to providing continuous intellectual research, intellectual development, and service opportunities in a learning-centered environment.

**Vision**

The College of Business & Technology will be a provider of lifetime tools preparing a community of learners for success in a changing world through premier, flexible and high quality programs of study.

**Strategic Goals and Principles**

The following strategic goals and principles apply to the stakeholders of the College including students, faculty, staff, employment, community, advisory councils, and others:

- **Create Value Through Relevant and Scholarly Programs**
  - Continuous improvement of programs and processes
  - Responsive to market needs
  - Striving to be recognized by appropriate accrediting bodies
  - On-going professional development of faculty

- **Promote an Environment of Ethical and Professional Conduct**
  - Behavior characterized by mutual respect and dignity
  - Adhering to established rules, policies, and procedures
  - Pursuit of academic quality

- **Encourage an Adaptive Culture**
  - Solutions oriented
  - Embrace change and innovation
  - Advocate entrepreneurship
  - Reward cooperation and collaboration

- **Reward Leadership and Ongoing Contributions in the Following Communities**
  - Scholarly
  - University Life
**Degree Programs**

**Bachelor of Business Administration (BBA) Degree**

The following majors are offered: Accounting, Finance, General Business, Human Resource Management, Management, Management Information Systems, Marketing.

**Bachelor of Science (BS) Degree**

*Economics.* Major in economics with selection of a second non-business major or a minor in business or non-business.

*Business Administration.* Major in business administration, including a minor in another discipline.

*Industrial Engineering & Technology.* Major fields of study include (1) industrial engineering, (2) technology management, and (2) construction science.

*Finance.* Major in finance, including minors in personal financial planning, and in real estate.

**Bachelor of Applied Arts and Sciences (BAAS) Degree:** Applied Arts & Sciences (AAS)

**Bachelor of Arts Degree:** Department of Economics-Finance. Major in economics.

**Bachelor of Professional Accountancy:** Department of Accounting. Major in professional accountancy. This program requires concurrent admission into The Graduate School and the Master of Business Administration degree program. The student earning this degree will graduate with the Bachelor of Professional Accountancy degree and the Master of Business Administration with a Minor in Accounting.

**Bachelor of Science Degrees:** Construction Engineering, Industrial Engineering, Technology Management, Construction Science.

**Masters Degrees:** The Master of Business Administration; the Master of Science in Economics; Master of Science in Finance, Master of Science in Management, and Master of Science in Marketing, and Master of Science in Technology Management degrees are offered. Requirements for the master's degrees are outlined in the *Graduate Catalog.*

**Bachelor’s Degree Curriculum**

**Suggested Courses to be Completed Before the Junior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisite</th>
</tr>
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<tbody>
<tr>
<td>ACCT 221 - Principles of Accounting I</td>
<td></td>
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<tr>
<td>ACCT 222 - Principles of Accounting II</td>
<td>Acct 221</td>
</tr>
<tr>
<td>ECO 2301 - Principles of Macro Economics</td>
<td></td>
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<tr>
<td>ECO 2302 - Principles of Micro Economics</td>
<td></td>
</tr>
<tr>
<td>MIS 128 - Business Computer Systems</td>
<td></td>
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<tr>
<td>MATH 1324 - Mathematics for Business Applications</td>
<td></td>
</tr>
</tbody>
</table>
MATH 176 - Mathematics for Business Applications II

Business Core Courses

Course | Prerequisite(s)
--- | ---
**A. 300 Level—55 semester hours required**

BA 301 - Legal Environment of Business

BA 302 - Business and Economic Statistics | Math 141 or 175

BA 303 - Business Communication

FIN 304 - Introduction to Business Finance | Acct 222; Eco 231, 232; Math 175

MGT 305 - Management and Organizational Behavior

MKT 306 - Marketing | Eco 232

MGT 307 - Operations Management | Math 141 or 175; BA 128 or IT 111

MGT 308 - Entrepreneurial Strategy | Mgt 305; Mkt 306

ECO 309 - Economic Forecasting | Eco 231, 232; Math 176; BA 302

FIN 312 - Money, Banking, and Financial Markets | Eco 231, 232

ACCT 311 - Managerial Accounting | Acct 222

**B. 400 Level—Senior Standing Required**

BA 420 - International Business

MIS 426 - Management Information Systems

MGT 439 - Business Strategy | Fin 304; BA 301, 302; Mgt 305, 307; Mkt 306; BA 303

Requirements for a Second Major in Economics or a Minor in a Business Discipline

Students outside the College of Business & Technology may elect to complete either a minor in a business discipline or a second major in economics in the College of Business & Technology. The business discipline minors offered by the CBT include either (1) a broad-field minor in general business, including courses from several departments within the college; or (2) minors in specialized areas such as accounting, economics, finance, general business, operations management, marketing, office management, real estate, or human resource management.
All business minors require the completion of Accounting 221, Economics 231 or 232, and a minimum of four advanced courses as approved by the appropriate department head in the College of Business & Technology. Technology minors must complete six courses approved by the department head.

Students who declare a second major in economics must complete eight courses, including Economics 231, 232, 309, 331, 332, Fin 312, and Accounting 221, and one advanced economics course.

**Teacher Certification**

Students seeking teacher certification should consult with their major academic advisor.

**Center for Excellence (CFE)**

Director: Dr. Jerry D. Parish, CSIT; Jerry_Parish@tamu-commerce.edu
McDowell Business Administration Bldg., room 215; 903-886-5191; Fax 903-886-5650

**Mission**

The Center for Excellence (CFE) serves to enhance and strengthen North Texas business and industry in the global marketplace via customized professional consulting, seminars, and workshops with programs in leadership, management development, team building, process and productivity improvement, business and industry development, communication skills, innovation, knowledge management, safety and quality improvement.

**Accounting, Economics, Finance**

Shwiff (Head), Ballard, Deaton, Edelman, Fullwood, Funderburk, Greenhut, Harness, Heslop, Kapp, Loving, F. Miller, Nippani, A. Ogunc, K. Ogunc, Wilson

McDowell Administration Building, Room 225, 903-886-5681, Fax 903-886-5601

**Accounting**

The department offers the Bachelor of Business Administration degree with a major in accounting, the Bachelor of Professional Accountancy with a major in professional accountancy, and the Bachelor of Professional Accountancy with a major in professional accountancy in conjunction with the Masters of Business Administration degree with a minor in accounting. These majors prepare graduates for careers in all areas of accounting, which include public accounting, private industry, financial institutions, public utility companies, governmental agencies, and other not-for-profit entities.

Students seeking a bachelor’s degree in any of the following majors must complete: (1) degree requirements for the specific degree, (2) University Studies requirements, and (3) the College of Business & Technology core course requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

**Economics-Finance**
The Department offers the Bachelor of Science or Arts degree with a major in economics. This major prepares graduates for careers in government, business, or graduate work in economics. Graduates are expected to conduct economic policy analysis, strategic planning, research, forecasting, or teaching. Additionally, a major in economics is an excellent preparation for law school or public policy analysis. A graduate with a major in economics should possess the following competencies: macro and micro economic concepts and principles; money and banking; econometrics; principles of managerial, environmental, and international economics; data analysis, and forecasting skills.

Master of Science degrees is offered with a major in economics. Requirements for the master’s degrees are outlined in the Graduate Catalog.

The department also offers the Bachelor of Business Administration degree with a major in finance. This major prepares graduates for career positions in investment management, financial management, credit, financial services, and related areas. Minors in personal financial planning, real estate, and finance are offered. The minor in personal financial planning is a registered program by the Board of Examiners of the Certified Financial Planner Board of Standards. In addition to the common body of knowledge in business, a graduate with a major in finance should possess the following competencies with domestic and international dimensions: financial analysis; financial institutions, markets; securities investments and portfolio management; short and long term financial planning, and financial engineering.

*Students seeking a bachelor’s degree in any of the following majors must complete:* (1) degree requirements for a Bachelor of Arts, Bachelor of Science, or Bachelor of Business Administration degree, (2) University Studies requirements, and (3) the College of Business & Technology course requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

**Applied Sciences**

Applied Sciences Parish, interim head, Sadler, Wilkins, McAnally

McDowell Business Administration, Room 102, 903-468-8750, Fax 903-468-8751 Website: http://www.tamu-commerce.edu/cbt/baas

The Department of Applied Sciences offers a program for the completion from an Associate of Applied Science degree to a Bachelor of Applied Arts and Sciences (BAAS). The BAAS degree program prepares students for managerial careers in technical fields. This program offers a seamless transition from an associates of applied arts and sciences degree in technical fields earned from community colleges to a bachelor’s degree. Up to 85 semester hours may be transferred into the program, and the remaining courses may be completed online.

**Business Administration and Management Information Systems**

English (Head), Alexander, Arize, Brodhax, Flanagan, Folden, Garrett, Guru-Gharawa, Manton, Walker

McDowell Administration Building, Room 317, 903-886-5692, FAX 903-886-5693

The Department of Business Administration and Management Information Systems offers programs leading to the Bachelor of Business Administration (B.B.A.) degree with majors in general business and management information systems. The Bachelor of Science (B.S.) degree with a major in business administration is available with a six course minor in another discipline. The following minors are offered by the department: (1) general business, (2) information technology, (3) international studies, and (4) international business.
The B.B.A. degree with a major in general business is intended for those students who desire a broad-based business curriculum. The B.B.A. degree with a major in management information systems offers the student the opportunity to combine the studies of business and computer science in a structured manner and in accordance with industry standards.

The B.S. degree with a major in business administration provides the student with the opportunity to major in business and to minor in a second field. For example, a student may major in business administration and minor in computer science.

Students seeking a bachelor’s degree in any of the following majors must complete: (1) degree requirements for a Bachelor of Business Administration or Bachelor of Science degree, (2) University Studies requirements, and (3) the College of Business & Technology core course requirements (refer to those sections of this catalog).

Specific major requirements and electives required for each program are indicated below. Also indicated below are recommended courses for each program for each classification level.

**Industrial Engineering and Technology**

Donham (Department Head), Anderson, Cranor, Elam, Horton, Kim, Parish, Wilson, Yeager

AG/IT Building, Room 213, 903-886-5474, FAX 903-886-5960 Web Site: www.tamu-commerce.edu/iet

The Department of Industrial Engineering & Technology offers Bachelor of Science (B.S.) degree programs leading to career opportunities in technical management, supervision, engineering, manufacturing and construction. Majors offered are: Technology Management, Construction Engineering, and Industrial Engineering.

Industrial Engineering & Technology majors are required to complete the University Studies requirements and major area requirements. For a course to transfer into an IE&T major, a grade of “C” or better must be earned in the course. A grade of “C” or better is required in all IE&T major courses. Courses must be repeated if a grade of “C” or better is not earned in the course.

**Marketing and Management**

Myers (Interim Head), Basham, Caruth, Collins, Humphreys, Ingram, Kernek, Langford, Milward, Mintu-Wimsatt, Myers, Odom, Oyler, Pane, Pryor, Sewell, Taneja

McDowell Administration Building, Room 202, 903-886-5703, FAX 903-886-5702

The Department of Marketing and Management offers the Bachelor of Business Administration (B.B.A.) degree with the option of three majors: Marketing, Human Resource Management, and Management.

To earn a degree in these areas, a student must: (1) meet all University requirements previously specified; (2) satisfy University Studies requirements and (3) complete courses in the College of Business & Technology core curriculum (refer to those sections of this catalog). In addition, courses in the major must be completed as shown in each section below. Also, for graduation, a 2.0 (C) grade point average must be achieved overall and in each course in the College of Business & Technology.

**College of Education and Human Services**

Brent Mangus, Dean

The College of Education and Human Services houses six academic departments, including the Departments of Counseling; Curriculum and Instruction; Educational Leadership; Health and Human Performance; Psychology and Special Education; and Social Work. The departments offer programs of study that lead to bachelor's, master’s, and doctoral degrees.
**College Mission**

The College of Education and Human Services exists to promote and enhance the development of professional practitioners, researchers, and leaders who are exemplary and dedicated to enriching the quality of life for persons within and beyond our region.

The College of Education and Human Services prepares personnel for the elementary, middle and high schools and for higher education positions. Specifically, the professional personnel for which programs are provided include:

- Teachers for certification at all levels and in virtually all subject areas offered in the public and private schools of Texas
- Teachers working toward professional certificates and/or master’s degrees or doctoral degrees
- School administrators working toward professional administrator’s certificates and master’s or doctoral degrees
- School counselors working toward professional certificates and master’s or doctoral degrees
- School supervisors working toward professional certificates and master’s or doctoral degrees
- Educational diagnosticians
- School psychologists
- Vocational supervisors and counselors
- Educational technology leaders in schools, colleges, businesses, and service Industries
- Curriculum directors and supervisors of instruction in public and private schools
- Teachers working toward school library certification or master's degrees with school library certification
- College teachers of education, guidance, and psychology. (Qualifications for these usually require a doctoral degree)
- College and University Administration
- Certified Athletic Trainers
- Other educational workers to meet the emerging needs of public and private schools, colleges, business and industry

A certificate required for teaching in accredited public and private schools of Texas is issued by the State Board for Educator Certification upon completion of all Teacher Education Program and University Requirements, and recommendation from the University.

Athletic trainers earn state and national certification through programs accredited by the Commission on Accreditation of Allied Health Education Programs.

Additionally, the College prepares students for generalist social work practice. Upon successful completion of the program, students receive the Bachelor of Social Work degree (BSW) and are eligible for licensure by the State of Texas as a social worker.

**Center for Educator Certification and Academic Services**

Jency Holbert, Donna Tavener, Director of Educator Preparation; Certification Officer Young Education North Building, Room 202, 903-468-8186

A unified system of records for students in teacher education is maintained in the Center for Educator Certification and Academic Services. These records are available to the Teacher Education Admission, Retention and Appeals Committee, the Dean of the College of Education and Human Services, and any faculty member participating in a teacher education program.

Stephanie Sutherland, Coordinator of the COEHS Mentor Center, Young Education North Building, Room 205, 903-886-5622

**Mission of the Teacher Education Program**

The major mission of the teacher education program at A&M-Commerce is to develop a force of public school personnel that is current, versatile, and sufficiently skilled to educate a diverse population.
Admission to the Field-Based Teacher Education Program

Application to the Teacher Education Program is required before a student can interview for an internship placement. Application should be made online at www.tamu-commerce.edu/teacher the spring or fall prior to the semester of internship.

Requirements to interview for internship placement:

1. Application Portfolio: Application, autobiography, commitment contract, internship/residency ethics agreement, and documentation of successful experiences in professional education courses that lead to acquisition of the five state proficiencies.
2. For undergraduates, substantial evidence of ability to complete all professional development and content teaching field/specialization courses which are required before the internship. (See degree evaluation for list of these courses.)
3. Log sheet and public school faculty/administrator evaluation of 30 hour Early Field Experience. (Note: “Unacceptable” rating(s) on the evaluation may result in further consultation, remediation, a growth plan, or denial of admission to the Teacher Education Program.)
4. Departmental review and approval to interview or interview and begin internship. (Note: A department may prevent a student from interviewing or beginning internship for academic or professional behavioral reasons. In addition, a department may require higher THEA/TASP, GPA, and/or course grade requirements than the TEARAC Field-Based Teacher Education Program requirements listed below. The department is responsible for notifying students of specific departmental concerns preventing them from interviewing or beginning internship.)

Requirements to begin internship placement:

1. Senior Standing (completion of approximately 80 semester hours of college coursework) or baccalaureate degree.
2. Grade of “C” or better in public speaking course as required in baccalaureate degree program.
3. All three parts of the TASP/THEA must meet department and certification requirements. The score requirements are: Reading (minimum of 250), Math (230), and Writing (220) (or TEARAC approved equivalent for reading, math and writing sections).
4. Overall GPA of 2.50.
5. Completion of all professional development and content teaching field/specialization courses that are required before internship with a 2.50 GPA in each area and no grade below “C”.
6. Successful interview with public school personnel resulting in an internship placement.
7. Criminal History Background Check and State Fingerprinting through State Board of Educator Certification vendor.

Requirements for admission prior to beginning resident placement:

1. Completion of all professional development and content teaching field/specialization courses which are required before residency with a 2.50 GPA in each area and no grade below “C”.
2. Continued overall GPA of 2.50.

Retention in the Field-Based Teacher Education Program

In order to be retained in the Teacher Education Program a student must do as follows:

1. Continue to meet admission standards.
2. Remain in good standing with their Instructional Leadership Team (ILT) and school placement Principal.
3. Make satisfactory progress toward teacher certification.

Certification in the Field-Based Teacher Education Program

After completion of all degree and/or certification requirements, student must apply for their teaching certificates at www.tamu-commerce.edu/teacher. Before the State Board for Educator Certification issues a certificate, a criminal history background check will be conducted which could result in the denial of certification to those persons with felony or misdemeanor convictions.

Requirements for certification:
1. Continued admission and retention in the Teacher Education Program.
2. Successful completion of all requirements listed on the degree evaluation, including required GPA’s and appropriate tests (i.e., ExCET/TExES and TOPT). Degree must be conferred by the University.

Note: Refer to www.tamu-commerce.edu/teacher or the Teacher Education Program Handbook for complete program guidelines.

**Counseling**

Armstrong (Ad Interim Head), Abbassi, Ball, Bore, Freeman, Hendricks, Lampe, Robinson, Salazar, Simpson

Binnion Hall, Room 212, 903-886-5637

The Department of Counseling offers an undergraduate minor in counseling. The minor offers the undergraduates an overview of the profession of counseling and can be used as part of a more comprehensive education as one prepares for graduate studies and training in counseling. The graduate should possess listening skills, as well as knowledge of standardized and non-standardized appraisal techniques, of group and individual counseling theory, and of career development theory.

In Texas students intending to become school counselors must first have two years of teaching experience before becoming certified as a school counselor. Therefore, the undergraduate degree, whether or not it includes counseling as an undergraduate minor, must include courses that qualify the student to first become a teacher.

The department offers the master’s degrees for those planning careers in school, community, and student affairs counseling positions. The department also offers the Ph.D. in counseling. For further information about graduate programs, refer to the **Graduate Catalog**.

**Curriculum and Instruction**

Foote (Head), Adams, Anderson, Boggs, Brown, Clark, Colby, Doyle, Eraso, Green, Hammack, Harper, Hong-Nam, Humbert, Linek, McCrary, McCoy, Miller, Naizer, Page, Raine, Reid, Sampson, Sennette, Sinclair, Smith, Stetson, Stryker, Szabo, Thompson, Tolliver, Torti, Trower, Walker, Wardell, Williams

Sowers Education South Building, 903-886-5537.

The Department of Curriculum and Instruction at Texas A&M University-Commerce, in collaboration with the region’s public schools, offers students an opportunity to learn the craft of teaching through field-based experiences in K-12 educational settings.

The department also teaches courses for the alternative teacher certification programs for those with degrees in fields other than education.

Our faculty is comprised of outstanding educators who have earned doctoral degrees from universities throughout the United States. In addition to publications in academic journals and presentations at professional educational conferences, many faculty have published textbooks and other professional material. But the greatest tribute to the faculty in the Department of Curriculum and Instruction is their continuing involvement, through our field-based programs, with the public schools of Texas.

**Interdisciplinary Studies Major with Certification in Elementary & Middle Level Education**

The Bachelor of Science in Interdisciplinary Studies (B.S.I.S.) and Bachelor of Arts in Interdisciplinary Studies (B.A.I.S.) degrees with a major in interdisciplinary studies are the state approved degree programs which prepare candidates to meet minimum academic requirements for the Texas Elementary Teaching Certificate. The degree program requires the completion of a minimum of 121 semester hours (number of hours varies by program).
This outstanding program won the Christa McAuliffe Showcase for Excellence Award from the American Association of State Colleges and Universities in 1994. Students spend the second half of their sophomore year and their junior year in interdisciplinary major courses that prepare teachers in the content of the elementary school curriculum and specializations such as math, science, math/science, social studies, English/language arts (4–8 grades) or EC-6 Generalist or bilingual, as well as English as a Second Language (ESL) and Special Education additions. During the junior year, students begin professional development courses that incorporate 45 hours of field experience in public schools. During the senior year students spend extended time working with a team of public school teachers and university faculty.

Students seeking a bachelor’s degree with an interdisciplinary studies major must complete all university requirements for the Bachelor of Science degree or Bachelor of Arts degree listed in the bachelor’s degree requirements section of this catalog, and any additional requirements established by the university. These requirements include but are not limited to successfully completing: (1) University Studies requirements (refer to that section of this catalog); (2) requirements for admission to professional development coursework; (3) 45 hours of observation experience in public schools; (4) interdisciplinary courses and appropriate specialization courses; (5) requirements for admission to teacher education; (6) field experience; and (7) other departmental requirements established to meet the State Board for Educator Certification (SBEC) standards for teacher certification.

The university reserves the right to change the curriculum or requirements for degrees or certificates to comply with state laws/regulations. The student assumes full responsibility for meeting all university requirements and for keeping current with all curriculum changes that might affect graduation and/or certification.

**University Studies Requirements**

Candidates must complete University Studies requirements. These requirements are located earlier in this catalog.

**Secondary and All-Level Education**

The Department of Curriculum and Instruction offers undergraduate professional development courses that assist students in becoming certified to teach in the secondary school and kindergarten-12th grade if seeking an all-level certification. Students major in a content-based teaching field while obtaining professional development coursework through Curriculum and Development. The student should obtain advising from both the major advisor in his or her department and from a curriculum and instruction faculty mentor. Students with bachelor's degrees who want to teach should consult the Graduate Catalog for requirements leading to certification.

Students seeking a bachelor's degree along with teacher certification must complete all university requirements for the Bachelor of Science degree or Bachelor of Arts degree listed in the bachelor's degree requirements section of this catalog, and any additional requirements established by the university. These requirements include but are not limited to successfully completing: (1) University Studies requirements (refer to that section of this catalog); (2) requirements for admission to professional development coursework; (3) 30 hours of observation experience in public schools; (4) the required reading score in one of the following tests: THEA/TASP 250, Accuplacer 88, ACT - English 23, Compass - Reading 90, or SAT Verbal 550; (5) major coursework with a "C" or better; 6) overall GPA of 2.5; (7) all professional development coursework with a "C" or better; (8) all requirements for admission and retention into the teacher certification program; (9) and successful interview and placement with a partnership school district. Please refer to Center for Educator Certification and Academic Services section of this catalog.

The university reserves the right to change the curriculum or requirements for degrees or certificates to comply with state laws/regulations. The student assumes full responsibility for meeting all university requirements and for keeping current with all curriculum changes that might affect graduation and/or certification.

**Field-Based Teacher Education Program**
Students pursuing certification for teaching in the secondary schools are required to participate in various field experiences. In SED 300 students observe in the schools for thirty clock hours. During the Residency Semester, candidates spend every day in the schools observing, studying, and teaching under the supervision of the university faculty and a public school mentor teacher(s). In addition to coursework, and internship/residency, to be certified, students must successfully complete two state administered examinations; one in the content area and one in the area of pedagogy and professional responsibilities. These tests are known as the TExES examinations (Texas Examinations of Educator Standards).

Secondary and All-level Field-Based Teacher Education Program

To receive approval to take the TExES Secondary Pedagogy and Professional Responsibility Test, a student must have passed the content exam and received approval from the seminar instructors or be a program completer. Students may be permitted to take the PPR prior to the content test with special permission during his or her residency semester.

*Students should check with their content-area department(s) (teaching field) for TExES approval requirements in their respective field(s). For students in the Alternative Certification Program, see the Graduate Catalog or contact the department head for a list of similar procedures.

SED 300

Prerequisite: Score on Thea Reading of 250 - or Accuplacer of 88 or SAT Verbal 550 plus SAT Total 1070 or Compass 90 or ACT English 23 plus Composite 23 (No Exceptions). It is highly recommended the student enroll in SED 300 during the semester prior to Internship/Residency.

1. Students enrolled in SED 300 will engage in activities to enhance critical thinking skills. SED 300 instructors will develop and use TExES case study format questions with students during class.
2. All students must complete the mid-term exam (TExES format test). Students with less than 75% on the mid-term exam are identified as at-risk.
3. Instructors will provide intervention for at-risk students through instructor review, peer teaching, and conferencing with individual students.
4. Students must complete SED 300 with a minimum grade of 75% to enroll in SED 302, 401, 404, 405.
5. Students are strongly recommended to take this course the semester prior to field based student teaching semester.

SED 302

Prerequisite: Psy 300 and SED 300

1. All students are required to participate in comprehensive TExES review sessions and engage in activities to enhance critical thinking skills.
2. All students must complete the mid-term exam (TExES format test). Students with less than 75% on the mid-term exam are identified as at-risk.
3. Instructors will provide intervention for at-risk students through instructor review, peer teaching, and conferencing with individual students.
4. Students must complete SED 302 with a minimum grade of 75% to enroll in SEd 401 and 405.
5. To receive a departmental clearance for an early TExES Test, students must have a minimum passing Reading TASP score of 270 and score 80% on the final exam.
6. Approval of requests for future test dates will be determined in SED 401.

SED 401

Prerequisite: SED 302
1. All students must complete the mid-term exam (TExES format test.) Students with less than 80% on the mid-term exam are identified as at-risk.
2. Instructors will provide intervention for at-risk students through instructor review, peer teaching, and conferencing with individual students.
3. Students must receive at least a “C” or better in 401 and request a departmental clearance for the TExES.

Note: For graduate courses, see Graduate Catalog.

Educational Leadership

Justice (Head), Bingham, Borgemenke, Brown, Davis, Espinoza, Fish, Horn, Leist, Lumadue, MacDonald, Ogden, Pool, Roberson, Scott, Stanfield, Travis, Vornberg, Waller, Wickersham

Young Education North Building, Room 113, 903-886-5520

The Department of Educational Leadership offers graduate programs leading to principal and superintendent certification and to master’s and doctoral degrees in administration and higher education. For a description of these programs and graduate courses, please refer to the Graduate Catalog.

Educational Technology

A major in educational technology on the master’s level is offered. For undergraduate students, courses are offered enabling those preparing for professional education to acquire competencies needed for teacher certification. Course offerings are appropriate for students majoring in business and industry to help them acquire skills in technology-related studies.

Health and Human Performance

Ross (Interim Head), Alford (Graduate Coordinator), Case, Dang, Kimbrough (Assistant Department Head), Mitchell, Piper, Ad-Interim Instructor - Price, Sackfield, Schneider, Tietjen-Smith, Walker, Ad-Interim Instructor - Weatherford, Wilkins

Field House, Room 100, 903-886-5549; Fax 903-886-5365

The Department of Health and Human Performance offers the Bachelor of Science and the Bachelor of Arts degrees with majors in athletic training, health, health promotion, human performance, sport and recreation management, and kinesiology and sports studies. Health and human performance majors are offered with or without teacher certification. The Bachelor of Arts degree requires twelve semester hours of a foreign language.

Teacher Education Programs

Students seeking a bachelor’s degree in any of the following teacher education majors must complete: (1) degree requirements for a Bachelor of Arts or Science degree (refer to the bachelor’s degree requirements section of this catalog); (2) University Studies requirements (refer to University Studies section of this catalog); (3) requirements for admission to and retention in the Teacher Education Program (refer to Center for Educator Certification and Academic Services section of this catalog); and (4) professional development courses (refer to the Curriculum and Instruction section of this catalog). In addition, courses in the major must be completed as shown below.

TExES Approval
Students seeking teacher certification in the areas of Health Education or Physical Education must meet certain requirements before permission is granted by the Department of Health and Human Performance to take the Texas Examination of Educator Standards (TExES).

These requirements include: (1) admission into the Teacher Education Program, and (2) completion of three-fourths of major professional courses. Attendance at departmental TExES review sessions and successful completion of the department TExES practice test are highly recommended.

Non-Teacher Education Programs

The non-teaching majors in health and kinesiology prepare individuals for careers in athletic training, health promotion, human performance, sport and recreation management, private and public agencies and/or related fields.

Students seeking a bachelor’s degree in any of the following majors must complete: (1) degree requirements for a Bachelor of Science degree and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

Psychology and Special Education

Henley (Head), Ball, Carlson, Fullwood, Green, Hogan, Johnson, Jones, Keenan, Krueger, Lu, Masten, Pierce, Reysen, Robertson, Schroeder, Stephens, Tochkov, Williams

Henderson Hall, Room 201, 201A/201B, 903-886-5594 or 5940

Psychology

The Department of Psychology and Special Education offers the Bachelor of Science and Bachelor of Arts degrees with a major in psychology. This major prepares students for graduate study in psychology and for careers in psychology-related fields. A graduate with a major in psychology should possess the following competencies: (1) knowledge of scientific method, research design and statistics, and their application in the study of human behavior; (2) understanding of basic psychological principles, critical thinking skills, and the nature of cognitive processing.

The department offers the following graduate degrees and majors: the Master of Arts and Science with a major in psychology and the Doctor of Philosophy degree with a major in educational psychology. For information about all graduate programs, refer to the Graduate Catalog.

Special Education

The Department of Psychology and Special Education offers an all-level generic special education certification program. Students pursuing teaching careers at the Elementary (EC-4), intermediate/middle school (4-8) and high school levels (8-12) may also select special education as a supplemental certification area. The certificate in special education provides the teacher with a knowledge of disabling conditions and their effects on learning, as well as adaptations, accommodations and modifications for providing instruction in the least restrictive setting. The generic special education program prepares graduates for careers as special education teachers or related service personnel.

A graduate with all-level Generic Special Education certification should possess the following competencies: knowledge of disabling conditions; knowledge of professional roles, strategies for promoting learning and development; and techniques to promote achievement in English language arts, reading and math. Academic advisement for programs in Special Education teacher education should be obtained from the Mentor Center located in Education North Room 205.
The department offers the following master’s degrees and majors: the Master of Arts, Master of Education or Master of Science degree with a major in special education; and, the Master of Education or Master of Science degree in special education with the educational diagnostician professional certification or provisional certification/ endorsement in generic special education. For further information about graduate programs, refer to the Graduate Catalog.

Students seeking a bachelor’s degree with generic special education as either a supplemental area or an interdisciplinary studies major must complete: (1) general requirements for a Bachelor of Arts or Science degree (refer to the bachelor’s degree requirements section of this catalog); (2) University Studies requirements (refer to that section of this catalog); (3) requirements for admission to and retention in the Teacher Education Program (refer to Center for Educator Certification and Academic Services section of this catalog); and (4) professional development courses (refer to the Secondary Education section or interdisciplinary studies major of this catalog). In addition, courses in the major must be completed as shown below.

Students interested in special education should seek early academic advisement for developing degree plans. Courses in the undergraduate curriculum are offered on a schedule rather than every term.

Social Work

Moore (Head), Boshears (BSW Program Director), Brumley, Johnston, Judd, Nash, Openshaw (MSW Program Director), Sheffield, Stewart.

Henderson Hall, Room 311, 903-468-8100

The department offers a broadfield major in social work, which is accredited by the Council on Social Work Education, and leads to the Bachelor of Social Work (BSW) degree. The Department of Social Work offers a graduate degree (MSW) for advanced social work practice.

An undergraduate major in this field prepares a student for entry level generalist social work practice and for entry into a graduate school of social work. Graduates are educationally prepared and eligible to sit for an exam to become licensed to practice professional generalist social work in Texas and many other states.

Social Workers significantly affect the lives of many people. Members of the profession provide services to people of all ages, races, creeds, and educational levels. The undergraduate professional curriculum is built upon and integrated with a liberal arts perspective. The required courses are planned to enable graduates to attain a beginning professional level of proficiency in generalist social work practice. The graduate curriculum provides students with advanced competencies to work autonomously, to supervise others and to serve in administrative roles.

Admission to the Undergraduate Social Work Program

Students may register for the three lower division courses (SWK 225, SWK 250 and SWK 275) without declaring the social work major and before admission to the Program. However, enrollment in most upper division social work courses is restricted to social work majors. Students will usually apply for admission to the Program late in the second semester of their sophomore year, and will be notified of their admission status prior to the beginning of the junior year.

For unconditional admission to the Program, students must have completed the three lower division social work courses and their prerequisites, and all University Studies requirements except PE courses. The student’s overall GPA must be at least 2.5 on a 4.0 scale, and a grade of “C” or higher must have been earned in the three sophomore level social work courses. For continued enrollment in the program, and acceptance for field practica, students must maintain a 2.5 GPA overall, as well as in the major, and earn at least a “C” in all required social work courses, Soc 111 and Psy 131.

Programs
Bachelor of Applied Arts and Sciences

Applied Arts and Sciences (BAAS)

The Bachelor of Applied Arts and Sciences (BAAS) degree at Texas A&M University-Commerce requires the completion of 121 semester hours. The BAAS degree is designed to meet the following student needs:

- Persons that hold an Associate (college track) degree from a regionally accredited institution.
- Persons that hold an Associate of Applied Arts and Sciences (technical track) degree from a regionally accredited institution.
- Persons that have completed at least 44 semester hours of college credit from a regionally accredited institution with a minimum of 26 semester hours in general education (including English Composition, American History, US Science 8th and College Algebra or equivalents) and at least 24 semester hours in a career, technical or vocational discipline. The ideal candidate for the BAAS degree is someone that has completed all of the general education and career courses required (85 semester hours) prior to entering the BAAS program at A&M-Commerce.
- Persons who have an overall GPA of at least 2.6 on a 4.0 scale.
- Persons that have an Associate degree and/or course work in:
  - Business, Management, or Marketing
  - Engineering Technologies, Technology
  - Computer or Information Science
  - Security or Protective Services
  - Health Profession or Clinical Science
- Persons who have the ability to take courses on-line. Thirty-six (36) upper level semester hours of the BAAS degree are required to be completed through instruction provided by Texas A&M University-Commerce. The 12 courses comprising the “Professional Development,” component of the BAAS degree will be offered on-line.

The BAAS degree program addresses the following educational objectives:

1. To prepare students for leadership roles in business and industry.
2. To prepare students to conduct a comprehensive analysis of individual and group behaviors in organizations.
3. To prepare students to develop a thorough understanding of the basic contents and tools of analysis in microeconomics.
4. To prepare students to apply principles and concepts of marketing.
5. To prepare students to use critical thinking skills and practical knowledge to solve specific business management problems.
6. To prepare students to apply career development strategies in developing individualized educational/career plans.

Students that achieve these educational objectives should:

- Acquire leadership and management positions in their career field.
- Pursue an on-line Master of Science (M.S.) degree in Management or Technology Management with Texas A&M University-Commerce.

Required courses in the major (36 sh)

- Advanced Electives, 6 sh
- BAAS 301 - Practicum I
- BAAS 306 - Org Change, Creat & Div
- BAAS 345 - Organizational Leadership
- BAAS 350 - Knowledge Management
- BAAS 355 - Dynamic Organization
• BAAS 409 - Global Technology and Society
• BAAS 444 - Strategies for Decision Making
• BAAS 305 - Effective Corporate Communications
• MGT 305 - Management and Organizational Behavior
• MKT 306 - Marketing

Required support courses with a minimum of grade of “C’ (6 sh)

• ECO 2301 - Principles of Macro Economics
• ECO 2302 - Principles of Micro Economics

SUGGESTED CURRICULUM OUTLINE (B.A.A.S.)

Freshman

• US Science, 8 sh
• US PE Activity, 2 sh
• US Humanities, 3 sh
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865

or
• SPC 1311 - US - Studies in Human Communication
  or
• SPC 1321 - US - Business and Professional Speaking

• MATH 1314 - College Algebra
  or
• MATH 1324 - Mathematics for Business Applications
  or
• MATH 179 - Mathematics: Applications and Philosophy

Total (31 sh)

Sophomore

• US Vis/Perf Arts, 3 sh
• Career Field, 15 sh
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics

Total (30 sh)

Junior

- Career Field, 21 sh
- BAAS 301 - Practicum I
- BAAS 305 - Effective Corporate Communications
- MGT 305 - Management and Organizational Behavior

Total (30 sh)

Senior

- Electives (6 Adv), 9 sh
- BAAS 306 - Org Change, Creat & Div
- BAAS 345 - Organizational Leadership
- BAAS 350 - Knowledge Management
- BAAS 355 - Dynamic Organization
- BAAS 409 - Global Technology and Society
- BAAS 444 - Strategies for Decision Making
- MKT 306 - Marketing

Total (36 sh)

Total Semester Hours: 121

Bachelor of Arts

AgriBusiness B.A.

The candidate for the Bachelor of Arts degree must meet the requirements specified for the Bachelor of Science degree. In addition, the candidate must complete at least 12 semester hours (4 courses) in one foreign language, or complete six semester...
hours above the elementary courses if two units of high school credit in the language have been submitted as part of the regular university admission requirements, or complete three semester hours if he presents three or four high school credits.

**Biological Sciences B.A.**

**Required courses in the major (51 sh)**

Advanced BSc courses 18 sh

- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- BSC 111 - Introduction to Biology
- BSC 301 - Biological Literature
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- BSC 305 - General Physiology
- BSC 306 - Applied Microbiology
- BSC 307 - Ecology
- BSC 401 - Senior Seminar

**Required support courses (37 sh)**

- CHEM 101 - General Chemistry Tutorial I
- CHEM 102 - General Chemistry Tutorial II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- CHEM 201 - Organic Chemistry Tutorial I
- CHEM 202 - Organic Chemistry Tutorial II
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics

**Plus one course from:**

- MATH 453 - Essentials of Statistics
- PSY 302 - Psychological Statistics: Descriptive and Inferential
- BSC 412 - Quantitative Biology

**Plus 6 sh from:**

- MATH 1314 - College Algebra
- MATH 142 - Pre-Calculus
- MATH 2413 - Calculus I
- MATH 192 - Calculus II

SUGGESTED CURRICULUM OUTLINE (B.S.)

**Freshman**

- BSC 1411 - Botany
- BSC 1413 - Zoology
- BSC 111 - Introduction to Biology
- MATH 1314 - College Algebra or MATH 2413 - Calculus I
- MATH 142 - Pre-Calculus or MATH 192 - Calculus II
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- CHEM 101 - General Chemistry Tutorial I
- CHEM 102 - General Chemistry Tutorial II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II

Total (31 sh)

**Sophomore**

- BSC 301 - Biological Literature
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- CHEM 201 - Organic Chemistry Tutorial I
- CHEM 202 - Organic Chemistry Tutorial II
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics
- HIST 1301 - US History to 1877

Total (32 sh)

**Junior**

- BSC 305 - General Physiology
- BSC 306 - Applied Microbiology
- BSC 307 - Ecology
- HIST 1302 - US History from 1865
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- US Vis/Perf Arts, 3 sh
- US Humanities, 3 sh
- Advanced Class in Biological Science, 3 sh

Total (30 sh)

Senior

- BSC 401 - Senior Seminar
- MATH 453 - Essentials of Statistics
  or PSY 302 - Psychological Statistics: Descriptive and Inferential
  or BSC 412 - Quantitative Biology
- SPC 1311 - US - Studies in Human Communication
- US Soc/Behav Sci, 3 sh
- US PE Activity, 2 sh
- Advanced Classes in Biological Sciences, 15 sh

Total (32 sh)

Total Semester Hours: 120

Chemistry B.A.

This degree provides a background in chemistry for students whose career goals are to enter the health professions, but with an option to continue graduate study in chemistry not chemistry fields. The competencies of students who elect this degree option are an understanding of the basic theory and practices of chemistry with significant research training.

Required courses in the major (43 sh)

- 2 advanced Chem courses
- CHEM 101 - General Chemistry Tutorial I
- CHEM 102 - General Chemistry Tutorial II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- CHEM 201 - Organic Chemistry Tutorial I
• CHEM 202 - Organic Chemistry Tutorial II
• CHEM 211 - Organic Chemistry I
• CHEM 212 - Organic Chemistry II
• CHEM 351 - Physical Chemistry I
• CHEM 352 - Physical Chemistry II
• CHEM 340 - Quantitative and Instrumental Analysis
• CHEM 401 - Chemical Science and Profession
• CHEM 418 - Undergraduate Research

Required support courses* (16 sh)

*These courses may apply on a second major or minor.

• MATH 2413 - Calculus I
• MATH 192 - Calculus II
• PHYS 2425 - University Physics I
• PHYS 2426 - University Physics II

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• MATH 2413 - Calculus I
• MATH 192 - Calculus II
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865

Total (30 sh)

Sophomore

• CHEM 201 - Organic Chemistry Tutorial I
• CHEM 202 - Organic Chemistry Tutorial II
• CHEM 211 - Organic Chemistry I
• CHEM 212 - Organic Chemistry II
• CHEM 340 - Quantitative and Instrumental Analysis
• PHYS 2425 - University Physics I
• PHYS 2426 - University Physics II

• SPC 1311 - US - Studies in Human Communication
  or
• SPC 1321 - US - Business and Professional Speaking

Total (31 sh)

Junior

• US Humanities, 3 sh
• US Vis/Perf Arts, 3 sh
• Foreign Language, 6 sh
• *Minor, 6 sh
  ○ *Courses can be used to receive a second major.
• CHEM 351 - Physical Chemistry I
• CHEM 418 - Undergraduate Research
• PSCI 2301 - Principles of United States and Texas Government

Total (31 sh)

Senior

• Chem, 4 sh (Adv)
• US Soc/Behav Sci, 3 sh
• US PE Activity, 2 sh
• *Minor, 12 sh
  ○ *Courses can be used to receive a second major.
• CHEM 401 - Chemical Science and Profession
• CHEM 418 - Undergraduate Research
• PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (29 sh)

Total Semester Hours: 121

English B.A.
(120 Semester Hours)

Emphasis in Liberal Arts and Pre-Professional Programs

Students desiring the B.A. in English will consult with the department head or their major adviser. At that time, a degree audit will be provided that specifies courses taken in the major and supporting fields. Each individually tailored degree audit will need to be submitted to the Graduation Coordinator in the semester the student anticipates graduating.

While students will be counseled to construct a well-balanced program, it is possible, by making the best use of departmental resources (regular course offerings, special topics seminars and colloquia, independent studies courses) and of supporting work outside the department, to devise sequences of study with special emphases: in literature (British, American, world); in languages and linguistics; in communications and creative writing; in philosophy, aesthetics, literary theory, or film; or in special cross-disciplinary areas of interest.

The B.A. in English is flexible enough to accommodate students with a wide variety of interests and career goals. It is suitable for students who wish to enter law, medicine, ministry, or business; who intend to take graduate work in the humanities for college teaching credentials; who intend to enter any profession or post-B.A. professional training program where competence in communication skills and a broad cultural awareness are required; or who desire to pursue an interest in literature and languages.

Required courses in the major, minor or specialization: (30 SH)

- All English majors must take both ENG 333 (Advanced Writing: Non-fiction) and ENG 399 (Literary and Research Methods). It is strongly recommended that students take ENG 399 in their sophomore year, so as to better prepare them for other advanced level English courses.
- In addition, all majors must satisfy the appropriate hour requirements in the following four subject areas:

British Literature (3 hours)

- ENG 311 - Shakespeare
- ENG 336 - British Poetry
- ENG 425 - Development of the Novel
- ENG 472 - Survey of English Literature II
- ENG 451 - Twentieth-Century British Literature
- ENG 471 - Survey of English Literature I

American Literature (3 hours)

- ENG 351 - American Novel Before World War I
- ENG 352 - American Novel After World War I
- ENG 355 - Women Writers
- ENG 441 - A Survey of American Literature I
- ENG 442 - A Survey of American Literature II
- ENG 444 - African American Literature

Genre (3 hours)

- ENG 305 - Children’s Literature
- ENG 323 - Mythology
- ENG 336 - British Poetry
- ENG 351 - American Novel Before World War I
- ENG 352 - American Novel After World War I
- ENG 406 - Adolescent Literature
- ENG 425 - Development of the Novel
- ENG 432 - History and Aesthetics of Film
- ENG 434 - Literature and Film
- ENG 474 - Topics in World Literature

Language, Theory, and Composition (6 hours)

- ENG 301 - Modern Grammar
- ENG 315 - Advanced Writing: Creative Writing
- ENG 317 - Word Building
- ENG 331 - Introduction to Linguistics
- ENG 332 - Pre-Law Composition
- ENG 341 - Technical Communication
- ENG 358 - Language and Society
- ENG 420 - Approaches to Literature

- Students must take at least 3 more courses (9 hours) of advanced hour English in order to satisfy the 30 semester hour requirement.

Required Support Courses:

(12 SH) (Identify by Courses Numbers) FRE 131, 132, 232 or SPA 131, 132, 231, 232

Other Requirements

Four courses (12-14 semester hours) in foreign language or equivalent. The foreign language requirement may be partially fulfilled by courses in foreign language satisfactorily completed in high school. The four courses (or equivalent) needed for the B.A. degree must be in the same language.

A grade of “C” or higher must be earned in all English courses required for this major. Twelve semester hours of Advanced
English (300-level or above) must be taken at Texas A&M University-Commerce.

Middle School English/Language Arts/Reading B.A.

These programs meet state guidelines for students who wish to teach in Middle School (MS) English, Language Arts, and Reading.

Students in the Middle School English/Language Arts/Reading (4-8) program must meet all of the following department criteria in order to be approved to go into their internship semester. Students who fail to meet the department criteria will have to fulfill a department remediation plan before they can be approved for internship.

1. A “B” or higher grade in Secondary English TExES-designated classes: English 300, and 333.
2. No more than one “C” grade in any English, Reading, or Speech course.
3. A minimum GPA of 3.0 in the upper-level (300-400) courses in English, Reading, and Speech.
4. A THEA Reading Score of 250.

Required courses in the major (33 sh)

- ENG 202 - Multi-Ethnic American Literature *
- ENG 300 - Reading, Analyzing, Teaching Literature
- ENG 301 - Modern Grammar #
- ENG 305 - Children’s Literature
- ENG 323 - Mythology
- ENG 406 - Adolescent Literature

- ENG 432 - History and Aesthetics of Film *
  or
- ENG 434 - Literature and Film *
  or
- ENG 444 - African American Literature

- ENG 331 - Introduction to Linguistics #
- ENG 332 - Pre-Law Composition
- ENG 358 - Language and Society #
- SPC 1311 - US - Studies in Human Communication *

Teacher Education courses

- MLED 401 - Differentiating Instruction for Diverse Learners
- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 404 - Developing Communication Skills

- MLED 410 - Fostering School, Family, and Community Relationships
  or
- ELED 200 - Schools and Society
• ELED 452 - Student Teaching in Field-Based Teacher Education Programs
• RDG 380 - Comprehension and Vocabulary in Middle and High Schools
• RDG 450 - Building a Community of Readers

Math and Science courses

• MATH 350 - Topics in Mathematics for Elementary Teachers I
• MATH 351 - Topics in Mathematics for Elementary Teachers II

Support courses

• Foreign Language, 12 sh
• PSY 300 - Learning Processes and Development
• PSY 310 - Psychology and Sociology of Diverse Populations **
• SPED 346 - Introduction to Exceptional Children
• MLED 314 - Young Adolescent Development

Notes

*Course may be used as both university studies and major.

** Psy 310 required if not take as capstone in the Core.

#These three courses also apply to requirements for the ESL Endorsement and Bilingual Interdisciplinary.

Photography B.A.

Required courses in the major (57-58 sh)

• PHO 111 - Introduction to Digital Media
• PHO 209 - Basic Photography II
• PHO 210 - Introduction to Studio Lighting
• PHO 250 - Digital Image Manipulation I
• PHO 280 - Color Photography
• PHO 379 - Survey of Photographic History
• PHO 495 - Photography Internship
• ART 111 - Two-Dimensional Design and Color Theory

Plus 23-24 sh from:

may include a maximum of 8 sh in Art
• PHO 212 - Visual Perception in Photography
• PHO 339 - Environmental Portraiture
• PHO 341 - Advertising and Commercial Photography
• PHO 349 - Nature and Wildlife Photography
• PHO 350 - Advanced Digital Photography
• PHO 357 - Documentary Photography
• PHO 359 - Junior Photography Seminar
• PHO 369 - Alternative Print Making
• PHO 397 - Special Topics
• PHO 497 - Special Topics

University Studies courses (43 sh)

See the University Studies Requirements: http://catalog.tamu-commerce.acalog.com/content.php?catoid=12&navoid=415

Electives

• Outside Photography, 6 sh

Required Courses in the Minor

• Minimum, 18 sh (6-9 sh Adv)

Notes

Due to the demanding nature of the laboratory photography courses, it may be inadvisable for students to take more than two laboratory courses in the same semester.

Photography majors usually own or have access to a manually adjustable 35mm single-lens reflex camera and hand-held light meter. Most students will want cameras equipped with normal, wide-angle, and telephoto lens by the time they enroll in Pho 112. Students must supply their own film, photographic paper, and other materials. With the accelerating move towards digital photography in the profession, it is increasingly advisable that Photography students own a good quality digital camera. Students are advised to ask the Photography faculty for guidance in selecting any digital equipment. The University has well-equipped darkrooms and studios and provides a limited amount of other equipment for use by students.

Transfer of credit for Photography courses taken at other institutions may be granted by the University as credit for semester hours; however, transfer students wishing to register for Photography courses more advanced than Pho 111 must consult with the Photography faculty unless transferring from an approved two-plus-two program. Permission to enroll in courses more advanced than Pho 111 will be granted only upon the evaluation of a portfolio of the student’s photographs by one or more members of the photography faculty. This evaluation must take place prior to or during the registration period for the student’s first semester at A&M-Commerce. Substitutions for course requirements may be made only with the approval of the department head. Majors must earn a grade of “C” or better in all Photography courses counted towards degree requirements.

Secondary School English/Language Arts/Reading B.A.
Teacher Certification, 8-12 English/Language Arts/Reading

Students in the Secondary English/Language Arts/Reading (8-12) program must meet all of the following department criteria in order to be approved to go into their internship semester. Students who fail to meet the department criteria will have to fulfill a department remediation plan before they can be approved for internship.

1. A “B” or higher grade in Secondary English TExES-designated classes: English 300, 333, and 403 or 420.
2. No more than one “C” grade in any English course.
3. A minimum GPA of 3.0 in the upper-level (300-400) English courses.
4. A THEA Reading Score of 250.

Required courses in the major (36 sh)

- ENG 300 - Reading, Analyzing, Teaching Literature
- ENG 311 - Shakespeare
- ENG 333 - Advanced Writing:Non-Fiction
- ENG 399 - Literary and Research Methods
- ENG 441 - A Survey of American Literature I
- ENG 442 - A Survey of American Literature II
- ENG 471 - Survey of English Literature I
- ENG 472 - Survey of English Literature II

- ENG 301 - Modern Grammar
* or
- ENG 424 - Development of the English Language

- ENG 403 - The Discipline of English
or
- ENG 420 - Approaches to Literature

Plus one course from:

- ENG 323 - Mythology
- ENG 355 - Women Writers
- ENG 358 - Language and Society
- ENG 432 - History and Aesthetics of Film
**
- ENG 434 - Literature and Film
**
- ENG 444 - African American Literature
- ENG 474 - Topics in World Literature

Plus one course from:
**Teacher Education courses (24 sh)**

- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- SED 300 - The Teaching Profession
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 405 - Residency in Secondary Teaching

**Support Courses (18 sh)**

- Foreign Language, 12 sh
- PSY 300 - Learning Processes and Development
- SPED 346 - Introduction to Exceptional Children
  or
- SPED 475 - Collaboration, Accommodation and Modification

**Notes**

*These three courses also apply to requirements for the ESL Endorsement and Bilingual Interdisciplinary.

**Course may be used as both university studies and major.**

**Spanish B.A.**

This plan of study is for students who wish to earn a B.A. degree in Spanish. It requires twenty-seven semester hours of Spanish beyond the elementary level. Students who are considering teaching in high schools or middle schools and plan to pursue emergency permits should follow the course requirements for English or language arts teacher certification.

**Required courses in the major (36 sh)**

- Four additional advanced (300-400 level) Spanish courses
- SPA 131 - Elementary Spanish I
- SPA 132 - Elementary Spanish II
- SPA 231 - Intermediate Spanish I
- SPA 232 - Intermediate Spanish II
• SPA 331 - Spanish Conversation for Oral Proficiency
  or
• SPA 333 - Spanish for Heritage Speakers I
  (for heritage speakers)

• SPA 332 - Spanish Composition and Grammar
  or
• SPA 334 - Spanish for Heritage Speakers II
  (for heritage speakers)

• SPA 341 - Introduction to Spanish Literature
• SPA 485 - Seminar in Spanish

Notes

• Spa 335—Spanish for TOPT does not count toward the major.

Other Requirements

A grade of “C” or higher must be earned in all Spanish courses required for this major. Twelve semester hours of Advanced (300-level or above) Spanish must be taken at Texas A&M University-Commerce.

Secondary Teacher Certification

This plan of study is for students who wish to be certified to teach Spanish at the secondary level (grades 8-12). It requires 39 semester hours of Spanish and cognate courses beyond the elementary level.

Required courses within this teaching field (36 sh)

Intermediate

• SPA 231 - Intermediate Spanish I
  *
• SPA 232 - Intermediate Spanish II

Advanced

• SPA 331 - Spanish Conversation for Oral Proficiency
  or
• SPA 333 - Spanish for Heritage Speakers I
  (for heritage speakers)

  and

• SPA 332 - Spanish Composition and Grammar
or

- SPA 334 - Spanish for Heritage Speakers II
  (for heritage speakers)

Literature

- SPA 341 - Introduction to Spanish Literature
- SPA 485 - Seminar in Spanish

Plus 9 sh from:

- SPA 353 - Spanish Culture and Civilization
- SPA 354 - Latin American Culture and Civilization
- SPA 471 - Literature, history and society of Latin America I: From Re-Columbian to Modernismo
- SPA 472 - Literature, history and society of Latin America, II: From Modernismo to the Present
- SPA 481 - Survey of Early Spanish Literature (1300-1700)
- SPA 482 - Survey of Modern Spanish Literature (1700 to the present)
- SPA 497 - Special Topics
  **

Theory

- ENG 457 - Teaching English as a Second Language

Linguistics

- ENG 358 - Language and Society
- ENG 462 - Language Acquisition and Processing

Notes

*Elementary Spanish 131 and 132, or equivalency, are prerequisites.

**Spa 335—Spanish for TOPT does not count toward the major.

Specialization in Bilingual for Interdisciplinary Studies Majors (for Elementary Teaching EC4)

Students desiring to teach in elementary school should consult the appropriate advisor in Elementary Education.

Requirements

Refer to the Department of Elementary Education section of this catalog.
Bachelor of Arts in Interdisciplinary Studies/Bachelor of Sciences in Interdisciplinary Studies

Generic Special Education: All-Level Special Education

Required courses in the major (27 sh)

- SPED 346 - Introduction to Exceptional Children
- SPED 420 - Learners with Special Needs in Restrictive Environments
- SPED 449 - Assessment and Evaluation
- SPED 463 - Managing Special Needs Populations
- SPED 464 - Special Populations in the Community
- SPED 472 - Special Populations in the Community
- SPED 475 - Collaboration, Accommodation and Modification
- SPED 478 - Physical and Medical Management
- SPED 472 - Delivery Services in Special Education

Required support courses (51 sh)

- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- PSY 300 - Learning Processes and Development
- PSY 310 - Psychology and Sociology of Diverse Populations
- PSY 316 - Abnormal Psychology
- RDG 350 - Reading and Literacy I
- RDG 360 - Word Analysis Skills
- RDG 370 - Reading and Literacy II or RDG 370 - Reading and Literacy II or RDG 415 - Learning and Teaching with Expository Text
- IS 351 - Inquiry: Knowledge and Skills of Science
- IS 352 - Science Inquiry II
- ELED 200 - Schools and Society or SED 200 - Schools, Community, and Society
- ELED 300 - Introduction to Teaching or SED 300 - The Teaching Profession
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- HHPK 274 - Adapted Physical Education
- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman
- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- US PE Activity, 2 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1314 - College Algebra

- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking

- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (32 sh)

Sophomore

- US Science, 8 sh
- US Soc/Behav Sci, 3 sh
- SPED 346 - Introduction to Exceptional Children
- SPED 420 - Learners with Special Needs in Restrictive Environments
- HHPK 274 - Adapted Physical Education
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- PSY 300 - Learning Processes and Development

- ELED 200 - Schools and Society
  or
- SED 200 - Schools, Community, and Society

- IS 351 - Inquiry: Knowledge and Skills of Science

Total (32 sh)

Junior

- SPED 449 - Assessment and Evaluation
- SPED 463 - Managing Special Needs Populations
- SPED 464 - Special Populations in the Community
- PSY 310 - Psychology and Sociology of Diverse Populations
- ELED 300 - Introduction to Teaching
  or
- SED 300 - The Teaching Profession
- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- IS 352 - Science Inquiry II
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- RDG 350 - Reading and Literacy I
- RDG 360 - Word Analysis Skills

Total (30 sh)

Senior

- SPED 478 - Physical and Medical Management
- SPED 475 - Collaboration, Accommodation and Modification
- SPED 472 - Delivery Services in Special Education
- RDG 370 - Reading and Literacy II
- RDG 415 - Learning and Teaching with Expository Text
- PSY 316 - Abnormal Psychology
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments

Total (27 sh)

Total Semester Hours: 121

Generic Special Education: Supplemental Certification

Students seeking certification at the 4-8 or 8-12 levels may also choose to seek supplemental certification in generic special education (18 hours).

Required courses for supplemental certification in generic special education:

- SPED 346 - Introduction to Exceptional Children
- SPED 420 - Learners with Special Needs in Restrictive Environments
- SPED 449 - Assessment and Evaluation
- SPED 463 - Managing Special Needs Populations
- SPED 475 - Collaboration, Accommodation and Modification
Depending on the major area of certification, students would also be required to take:

- SPED 464 - Special Populations in the Community
- SPED 478 - Physical and Medical Management
  or
- SPED 470 - Special Needs Populations in Least Restrictive Settings

**Interdisciplinary Studies B.A.I.S./B.S.I.S.**

The major in Interdisciplinary Studies in Elementary Education offers two levels of certification

- The Early Childhood Level EC-6th Grade, options are:
  EC-6 Generalist
  EC-6 Bilingual
  EC-6 English as a Second Language (ESL)
  EC-6 Special Education
  (For Special Education also see advisor in Special Education department; for ESL and Bilingual, see Bilingual advisor; for generalist, see Curriculum and Instruction)

- The Middle Level 4th - 8th Grade, options are:
  4-8 Math
  4-8 Science
  4-8 Math/Science
  4-8 Science with English as a Second Language (ESL)
  4-8 Math with English as a Second Language (ESL)
  4-8 Social Studies (See History Department Advisor)
  4-8 English/Language Arts/Reading

- The Educational Aide Exemption Program, options are:
  EC-6 Generalist Aide
  EC-6 Bilingual Aide
  EC-6 English as a Second Language (ESL) Aide
  EC-6 Special Education Aide
  (For Special Education also see advisor in Special Education department; for ESL and Bilingual, see Bilingual advisor; for generalist, see Curriculum and Instruction)

**Professional Education and Support Courses**

Professional education is that component in the program which provides the preservice teacher with:

1. Generic teaching skills required to plan, deliver, and evaluate teaching;
2. Organization and management skills needed for large group, small group, and individual instruction;
3. Methods for teaching specific subjects in the elementary curriculum; and
4. Field experiences to practice the theories and methods learned at the university and in public school classrooms.

Requirements for Admission to Professional Development Coursework
(Benchmark #1)

1. Completion of a minimum of 45 sh of college coursework
2. Texas Success Initiative (TSI) requirements met
3. Overall GPA of 2.5
4. A 2.5 minimum GPA in coursework thus far completed in teaching field, specialization, and endorsements with no grade below “C”.

Admission to Teacher Education (Benchmark #2)
(Required Before Placement in an Internship)

1. Prior to beginning an Internship All sections of Basic Skills Requirements must be met - Reading, Math, and Writing. The Reading section may be satisfied with the following methods only - Thea 250, Accuplacer 88, Compass 90, ACT 23, Composite & 23 English, SAT 1070 Combined and 550 Critical Reading
2. All requirements for Admission to Professional Development Coursework must continue to be met and an official degree plan filed.
3. Completion of a minimum of 80 sh of college coursework.
4. Grade of “C” or better in public speaking course unless you are an Alternative Certification student.
5. Completion of all professional development and major courses that are required before Internship on Degree Evaluation. An overall GPA of 2.5 is required with no grade below “C”.
6. An application for admission into an internship completed prior to the due date. The application will be screened for such things as a public school evaluation of early observation experiences and documented 30 hours of observation, an assessment of standard English usage, CI departmental admission requirements, and completion of Basic Skills Requirements, etc.
7. Successful interview and placement in a public school.
8. Complete appropriate coursework before admission to teacher education.

Retention

To be retained in the teacher education program, a student must continue to meet all admission standards. A student may be dismissed from the teacher education program following a review of the student’s admission status. This review can be requested by either TAMU-Commerce or public school personnel. A student may be withdrawn from internship or residency upon recommendation of the student’s field based instructional leadership team (ILT). This withdrawal from internship or residency will result in the student no longer being retained in the teacher education program.

Certification

1. Admission and retention in the teacher education program;
2. Upon completion of degree requirements and passing state required certification exams apply for certificate on line through SBEC.

Scheduling of Coursework

Contact the Department of Curriculum and Instruction in Sowers Eduction South for advising.
First, read course descriptions in the university catalog. These descriptions will tell you if prerequisites are required for courses, thus helping you as you plan the sequence of courses you will follow. Second, begin with your university studies requirements. Finish the majority before moving to your major. Third, complete your major in Interdisciplinary Studies and professional development courses. Note which courses have prerequisites and plan accordingly. Plan your coursework so that when you complete your residency you have met all graduation requirements.

Internship Semester

You must be admitted to the teacher education program before placement in the internship semester (see Admission to Teacher Education). During this semester, you will spend three days each week in public schools and in seminars.

Residency Semester

This semester you will be full-time in the schools and in seminars.

Teacher Certification, EC-6 Generalist

Major Courses

- HHPK 324 - Health and Kinesiology for Children
- IS 351 - Inquiry: Knowledge and Skills of Science
- IS 352 - Science Inquiry II
- ART 305 - Integrated Arts for Elementary Teachers or MUS 305 - Integrated Arts for Elementary Teachers or THE 305 - Integrated Arts for Elementary Teachers
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- SPED 346 - Introduction to Exceptional Children

Specialization courses

- ECE 313 - Child Development: Early Years
- ECE 364 - Survey of Theories Influencing Childhood Development
- ECE 366 - Learning Environments
- ECE 460 - Early Childhood Curriculum

Professional Development courses

- ELED 200 - Schools and Society
- ELED 300 - Introduction to Teaching
- PSY 300 - Learning Processes and Development
- PSY 310 - Psychology and Sociology of Diverse Populations
- RDG 350 - Reading and Literacy I
- RDG 360 - Word Analysis Skills
- RDG 370 - Reading and Literacy II

**Internship courses**

- ELED 436 - Integrated Learning: Math in Field-Based Settings
- ELED 437 - Integrated Learning: Science in Field-Based Settings
- ELED 438 - Integrated Learning: Social Studies in Field-Based Settings
- RDG 448 - Characteristics of English Language Learners

**Residency courses**

- ELED 443 - Classroom Management for Teacher Candidates in Culturally Diverse Field-Based Settings
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs (6 hrs)
- SPED 480 - Issues for Inclusion

**SUGGESTED CURRICULUM OUTLINE (B.S.)**

**Freshman**

- ENG 1301 - College Reading and Writing
- HIST 1301 - US History to 1877
- MATH 1314 - College Algebra
  US Science, 4 sh
  US PE Activity, 1 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies or PSCI 220, PSCI 221
- SPC 1311 - US - Studies in Human Communication or
- SPC 1321 - US - Business and Professional Speaking
- ENG 1302 - Written Argument and Research
- HIST 1302 - US History from 1865
  US Science, 4 sh
  US PE Activity, 1 sh

**Total (34 sh)**

**Sophomore**
US Vis/Perf Arts, 3 sh
US Soc/Behav, 3 sh
- ELED 200 - Schools and Society
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- ECE 366 - Learning Environments
US Humanities, 3 sh
- HHPK 324 - Health and Kinesiology for Children
- SPED 346 - Introduction to Exceptional Children
- ECE 313 - Child Development: Early Years
- ART 305 - Integrated Arts for Elementary Teachers
  or
- MUS 305 - Integrated Arts for Elementary Teachers
  or
- THE 305 - Integrated Arts for Elementary Teachers

Total (30 sh)

Junior

- MATH 351 - Topics in Mathematics for Elementary Teachers II
- ELED 300 - Introduction to Teaching
- RDG 350 - Reading and Literacy I
- ECE 460 - Early Childhood Curriculum
- IS 351 - Inquiry: Knowledge and Skills of Science
- PSY 300 - Learning Processes and Development
- ECE 364 - Survey of Theories Influencing Childhood Development
- IS 352 - Science Inquiry II
- RDG 360 - Word Analysis Skills
- RDG 370 - Reading and Literacy II
- PSY 310 - Psychology and Sociology of Diverse Populations

Total (33 sh)

Senior

Internship
- ELED 436 - Integrated Learning: Math in Field-Based Settings
- ELED 437 - Integrated Learning: Science in Field-Based Settings
- ELED 438 - Integrated Learning: Social Studies in Field-Based Settings
- RDG 448 - Characteristics of English Language Learners

Residency

- ELED 443 - Classroom Management for Teacher Candidates in Culturally Diverse Field-Based Settings
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs (6 hrs)
- SPED 480 - Issues for Inclusion

Total (24 sh)

Total Semester Hours: 121

Teacher Certification, EC-6 with Special Education Delivery

Major Courses

- HHPK 324 - Health and Kinesiology for Children
- IS 351 - Inquiry: Knowledge and Skills of Science
- IS 352 - Science Inquiry II
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II

Specialization courses

- ECE 313 - Child Development: Early Years
- ECE 364 - Survey of Theories Influencing Childhood Development
- ECE 366 - Learning Environments
- ECE 460 - Early Childhood Curriculum
- SPED 346 - Introduction to Exceptional Children
- SPED 420 - Learners with Special Needs in Restrictive Environments
- SPED 449 - Assessment and Evaluation
- SPED 463 - Managing Special Needs Populations
Professional Development courses

- ELED 200 - Schools and Society
- ELED 300 - Introduction to Teaching
- PSY 300 - Learning Processes and Development
- PSY 310 - Psychology and Sociology of Diverse Populations
- RDG 350 - Reading and Literacy I
- RDG 360 - Word Analysis Skills
- RDG 370 - Reading and Literacy II

Internship courses

- ELED 436 - Integrated Learning: Math in Field-Based Settings
- ELED 437 - Integrated Learning: Science in Field-Based Settings
- ELED 438 - Integrated Learning: Social Studies in Field-Based Settings
- RDG 448 - Characteristics of English Language Learners
- SPED 466 - Practicum with Special Needs Populations

Residency courses

- ELED 452 - Student Teaching in Field-Based Teacher Education Programs (6 hrs)
- SPED 470 - Special Needs Populations in Least Restrictive Settings

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- ENG 1301 - College Reading and Writing
- HIST 1301 - US History to 1877
- MATH 1314 - College Algebra
  US Science, 4 sh
  US PE Activity, 1 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies or PSCI 220, 221
- SPC 1311 - US - Studies in Human Communication or
- SPC 1321 - US - Business and Professional Speaking
- ENG 1302 - Written Argument and Research
• HIST 1302 - US History from 1865  
US Science, 4 sh  
US PE Activity, 1 sh

Total (34 sh)

Sophomore

US Vis/Perf Arts, 3 sh  
• ELED 200 - Schools and Society  
• MATH 350 - Topics in Mathematics for Elementary Teachers I  
• SPED 346 - Introduction to Exceptional Children  
• ECE 366 - Learning Environments  
US Soc/Behav, 3 sh  
US Humanities, 3 sh
• MATH 351 - Topics in Mathematics for Elementary Teachers II  
• ECE 313 - Child Development: Early Years  
• ECE 364 - Survey of Theories Influencing Childhood Development  
• HHPK 324 - Health and Kinesiology for Children

Total (33 sh)

Junior

• ELED 300 - Introduction to Teaching  
• RDG 350 - Reading and Literacy I  
• IS 351 - Inquiry: Knowledge and Skills of Science  
• SPED 463 - Managing Special Needs Populations  
• PSY 300 - Learning Processes and Development  
• ECE 460 - Early Childhood Curriculum  
• IS 352 - Science Inquiry II  
• RDG 360 - Word Analysis Skills  
• RDG 370 - Reading and Literacy II  
• SPED 420 - Learners with Special Needs in Restrictive Environments  
• SPED 449 - Assessment and Evaluation  
• PSY 310 - Psychology and Sociology of Diverse Populations

Total (36 sh)
Senior

Internship

- ELED 436 - Integrated Learning: Math in Field-Based Settings
- ELED 437 - Integrated Learning: Science in Field-Based Settings
- ELED 438 - Integrated Learning: Social Studies in Field-Based Settings
- RDG 448 - Characteristics of English Language Learners
- SPED 466 - Practicum with Special Needs Populations

Residency

- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 470 - Special Needs Populations in Least Restrictive Settings

Total (24 sh)

Total Semester Hours: 127

Teacher Certification, EC-6 with Bilingual Delivery

Interdisciplinary courses

- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- IS 351 - Inquiry: Knowledge and Skills of Science
- IS 352 - Science Inquiry II
- ECE 313 - Child Development: Early Years
- ECE 364 - Survey of Theories Influencing Childhood Development
- ECE 366 - Learning Environments
- ECE 460 - Early Childhood Curriculum
- HHPK 324 - Health and Kinesiology for Children
Specialization courses

- ENG 457 - Teaching English as a Second Language
- BLED 401 - Foundations of Bilingual/ESL (English as a Second Language) Education
- BLED 402 - Bilingual Oral Language and Biliteracy Instruction: Methods, Materials, and Assessment
- BLED 403 - Bilingual Instruction for the Content Areas: Methods, Materials and Assessment
- SPA 331 - Spanish Conversation for Oral Proficiency
  or SPA 333, Spanish for Heritage Speakers I
- SPA 332 - Spanish Composition and Grammar
  or SPA 334, Spanish for Heritage Speakers II

Professional Development courses

- PSY 300 - Learning Processes and Development
- PSY 310 - Psychology and Sociology of Diverse Populations
- ELED 300 - Introduction to Teaching
- RDG 350 - Reading and Literacy I
- RDG 360 - Word Analysis Skills
  or RDG 370 Reading and Literacy II

Internship courses

- ELED 436 - Integrated Learning: Math in Field-Based Settings
- ELED 437 - Integrated Learning: Science in Field-Based Settings
- ELED 438 - Integrated Learning: Social Studies in Field-Based Settings
- RDG 448 - Characteristics of English Language Learners

Residency courses

- ELED 443 - Classroom Management for Teacher Candidates in Culturally Diverse Field-Based Settings
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- ENG 1301 - College Reading and Writing
• HIST 1301 - US History to 1877
• MATH 1314 - College Algebra
  US Science, 4 sh
  US PE Activity, 1 sh
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
  or PSCI 220, 221
• SPC 1311 - US - Studies in Human Communication
  or
• SPC 1321 - US - Business and Professional Speaking
• ENG 1302 - Written Argument and Research
• HIST 1302 - US History from 1865
  US Science, 4 sh
  US PE Activity, 1 sh

Total (34 sh)

Sophomore

  US Vis/Perf Arts, 3 sh
  US Soc/Behav, 3 sh
• MATH 350 - Topics in Mathematics for Elementary Teachers I
• ECE 364 - Survey of Theories Influencing Childhood Development
• ECE 366 - Learning Environments
• SPA 331 - Spanish Conversation for Oral Proficiency
  or
• SPA 333 - Spanish for Heritage Speakers I
• SPA 332 - Spanish Composition and Grammar
  or
• SPA 334 - Spanish for Heritage Speakers II
• HHPK 324 - Health and Kinesiology for Children
  US Humanities, 3 sh
• MATH 351 - Topics in Mathematics for Elementary Teachers II
• ECE 313 - Child Development: Early Years
• PSY 300 - Learning Processes and Development

Total (36 sh)

Junior

• ELED 300 - Introduction to Teaching
- RDG 350 - Reading and Literacy I
- IS 351 - Inquiry: Knowledge and Skills of Science
- BLED 401 - Foundations of Bilingual/ESL (English as a Second Language) Education
- PSY 310 - Psychology and Sociology of Diverse Populations
- ENG 457 - Teaching English as a Second Language
- ECE 460 - Early Childhood Curriculum
- IS 352 - Science Inquiry II
- BLED 402 - Bilingual Oral Language and Biliteracy Instruction: Methods, Materials, and Assessment
- RDG 360 - Word Analysis Skills or
- RDG 370 - Reading and Literacy II
- BLED 403 - Bilingual Instruction for the Content Areas: Methods, Materials and Assessment

Total (33 sh)

Senior

Internship

- ELED 436 - Integrated Learning: Math in Field-Based Settings
- ELED 437 - Integrated Learning: Science in Field-Based Settings
- ELED 438 - Integrated Learning: Social Studies in Field-Based Settings
- RDG 448 - Characteristics of English Language Learners

Residency

- ELED 443 - Classroom Management for Teacher Candidates in Culturally Diverse Field-Based Settings
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

Total (24 sh)

Total Semester Hours: 127

Teacher Certification, ESL Generalist EC-6
Interdisciplinary Courses

- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- IS 351 - Inquiry: Knowledge and Skills of Science
- IS 352 - Science Inquiry II
- ECE 313 - Child Development: Early Years
- ECE 358 - Language Acquisition Development in Early Childhood Education Field-Based Settings or SPED 346 - Introduction to Exceptional Children
- ECE 364 - Survey of Theories Influencing Childhood Development
- ECE 366 - Learning Environments
- ECE 460 - Early Childhood Curriculum
- HHPK 324 - Health and Kinesiology for Children

Specialization courses

- ENG 457 - Teaching English as a Second Language
- BLED 401 - Foundations of Bilingual/ESL (English as a Second Language) Education
- BLED 412 - Second Language Literacy for English Language Learners
- BLED 413 - Sheltered Content Area Instruction for English Language Learners

Professional Development courses

- ELED 300 - Introduction to Teaching
- PSY 300 - Learning Processes and Development
- PSY 310 - Psychology and Sociology of Diverse Populations
- RDG 350 - Reading and Literacy I
- RDG 360 - Word Analysis Skills
- RDG 370 - Reading and Literacy II

Field-Based courses

- ELED 436 - Integrated Learning: Math in Field-Based Settings
- ELED 437 - Integrated Learning: Science in Field-Based Settings
- ELED 438 - Integrated Learning: Social Studies in Field-Based Settings
- ELED 443 - Classroom Management for Teacher Candidates in Culturally Diverse Field-Based Settings
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- RDG 448 - Characteristics of English Language Learners
- SPED 480 - Issues for Inclusion
SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- ENG 1301 - College Reading and Writing
- HIST 1301 - US History to 1877
- MATH 1314 - College Algebra
  US Science, 4 sh
  US PE Activity, 1 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies or PSCI 220, 221
- SPC 1311 - US Studies in Human Communication or
- SPC 1321 - US Business and Professional Speaking
- ENG 1302 - Written Argument and Research
- HIST 1302 - US History from 1865
  US Science, 4 sh
  US PE Activity, 1 sh

Total (34 sh)

Sophomore

- US Vis/Perf Arts, 3 sh
- US Soc/Behav, 3 sh
- US Humanities, 3 sh
- ECE 366 - Learning Environments
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- HHPK 324 - Health and Kinesiology for Children
- ECE 358 - Language Acquisition Development in Early Childhood Education Field-Based Settings
- SPED 346 - Introduction to Exceptional Children
- ECE 313 - Child Development: Early Years
- ECE 364 - Survey of Theories Influencing Childhood Development
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- PSY 300 - Learning Processes and Development

Total (33 sh)
Junior

- Electives 0-3 sh (as needed)
- ELED 300 - Introduction to Teaching
- RDG 350 - Reading and Literacy I
- IS 351 - Inquiry: Knowledge and Skills of Science
- BLED 401 - Foundations of Bilingual/ESL (English as a Second Language) Education
- ENG 457 - Teaching English as a Second Language
- BLED 412 - Second Language Literacy for English Language Learners
- ECE 460 - Early Childhood Curriculum
- IS 352 - Science Inquiry II
- RDG 360 - Word Analysis Skills
- RDG 370 - Reading and Literacy II
- PSY 310 - Psychology and Sociology of Diverse Populations
- BLED 413 - Sheltered Content Area Instruction for English Language Learners

Total (33 sh)

Senior

Internship

- ELED 436 - Integrated Learning: Math in Field-Based Settings
- ELED 437 - Integrated Learning: Science in Field-Based Settings
- ELED 438 - Integrated Learning: Social Studies in Field-Based Settings
- RDG 448 - Characteristics of English Language Learners
- SPED 466 - Practicum with Special Needs Populations

Residency

- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 470 - Special Needs Populations in Least Restrictive Settings

Total (24 sh)
Total Semester Hours: 127

Teacher Certification, ESL Mathematics 4-8

Interdisciplinary courses

- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- SPED 346 - Introduction to Exceptional Children
- IS 351 - Inquiry: Knowledge and Skills of Science
- IS 352 - Science Inquiry II
  or
- BSC 461 - Biology for Middle School Teachers
  or
- ESCI 461 - Earth Science for Teachers
  or
- IS 451 - Historical Development of Great Ideas in Science

Specialization Courses

- MATH 301 - Introductory Geometry
- MATH 361 - Mathematical Modeling of Science for Middle School I
- MATH 362 - Mathematical Modeling of Science for Middle School II
- MATH 372 - Mathematics Structures and Applications
- MATH 380 - Mathematics History
- MATH 453 - Essentials of Statistics

ESL Specialization courses

- ENG 457 - Teaching English as a Second Language
- BLED 401 - Foundations of Bilingual/ESL (English as a Second Language) Education
- BLED 412 - Second Language Literacy for English Language Learners
- BLED 413 - Sheltered Content Area Instruction for English Language Learners

Professional Development courses Pre-Internship
• PSY 300 - Learning Processes and Development
• PSY 310 - Psychology and Sociology of Diverse Populations
• ELED 300 - Introduction to Teaching
• RDG 380 - Comprehension and Vocabulary in Middle and High Schools
• MLED 314 - Young Adolescent Development

Internship courses

• MLED 402 - Best Practices in Pedagogy and Assessment
• MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
• MLED 435 - Integrating Instruction: Science, Mathematics and Technology
• ELED 452 - Student Teaching in Field-Based Teacher Education Programs
• RDG 450 - Building a Community of Readers

Residency courses

• ELED 452 - Student Teaching in Field-Based Teacher Education Programs
• MLED 410 - Fostering School, Family, and Community Relationships
• SPED 480 - Issues for Inclusion

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

• ENG 1301 - College Reading and Writing
• HIST 1301 - US History to 1877
• MATH 1314 - College Algebra
  US Science, 4 sh
  US PE Activity, 1 sh
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies or PSCI 220, 221
• SPC 1311 - US - Studies in Human Communication
  or
• SPC 1321 - US - Business and Professional Speaking
• ENG 1302 - Written Argument and Research
• HIST 1302 - US History from 1865
  US Science, 4 sh
  US PE Activity, 1 sh
Total (34 sh)

Sophomore

US Soc/Behav, 3 sh
US Humanities, 3 sh
US Visual/Performing Arts
• MATH 350 - Topics in Mathematics for Elementary Teachers I
• RDG 380 - Comprehension and Vocabulary in Middle and High Schools
• MLED 314 - Young Adolescent Development
• SPED 346 - Introduction to Exceptional Children
• MATH 351 - Topics in Mathematics for Elementary Teachers II
• PSY 300 - Learning Processes and Development
• MATH 372 - Mathematics Structures and Applications

Total (30 sh)

Junior

• ELED 300 - Introduction to Teaching
• IS 351 - Inquiry: Knowledge and Skills of Science
• MATH 361 - Mathematical Modeling of Science for Middle School I
• MATH 301 - Introductory Geometry
• BLED 401 - Foundations of Bilingual/ESL (English as a Second Language) Education
• BLED 412 - Second Language Literacy for English Language Learners
• ENG 457 - Teaching English as a Second Language
• MATH 362 - Mathematical Modeling of Science for Middle School II
• MATH 453 - Essentials of Statistics
• IS 352 - Science Inquiry II
or
• BSC 461 - Biology for Middle School Teachers
or
• ESCI 461 - Earth Science for Teachers
or
• IS 451 - Historical Development of Great Ideas in Science
• PSY 310 - Psychology and Sociology of Diverse Populations
• BLED 413 - Sheltered Content Area Instruction for English Language Learners

Total (36 sh)
Senior

- MATH 380 - Mathematics History (fall only)

Internship

- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- RDG 450 - Building a Community of Readers
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Residency

- MLED 410 - Fostering School, Family, and Community Relationships
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

Total (27 sh)

Total Semester Hours: 127

Teacher Certification, ESL Science 4-8

Interdisciplinary courses

- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- IS 351 - Inquiry: Knowledge and Skills of Science
- IS 352 - Science Inquiry II
- SPED 346 - Introduction to Exceptional Children

**Specialization Courses**

- Science Elective
- IS 451 - Historical Development of Great Ideas in Science
- BSC 461 - Biology for Middle School Teachers
- ESCI 461 - Earth Science for Teachers
- CHEM 1405 - Survey of General Chemistry
  or
- CHEM 1411 - General and Quantitative Chemistry I
- PHYS 1401 - College Physics
  or
- PHYS 1402 - College Physics

**ESL Specialization courses**

- ENG 457 - Teaching English as a Second Language
- BLED 401 - Foundations of Bilingual/ESL (English as a Second Language) Education
- BLED 412 - Second Language Literacy for English Language Learners
- BLED 413 - Sheltered Content Area Instruction for English Language Learners

**Professional Development courses Pre-Internship**

- PSY 300 - Learning Processes and Development
- ELED 300 - Introduction to Teaching
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- MLED 314 - Young Adolescent Development
- PSY 310 - Psychology and Sociology of Diverse Populations

**Internship courses**

- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- RDG 450 - Building a Community of Readers
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
Residency courses

- MLED 410 - Fostering School, Family, and Community Relationships
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- ENG 1301 - College Reading and Writing
- HIST 1301 - US History to 1877
- MATH 1314 - College Algebra
  US Science, 4 sh
  US PE Activity, 1 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
  or PSCI 220, 221
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- ENG 1302 - Written Argument and Research
- HIST 1302 - US History from 1865
  US Science, 4 sh
  US PE Activity, 1 sh

Total (34 sh)

Sophomore

US Vis/Perf Arts, 3 sh
US Soc/Behav, 3 sh
US Humanities, 3 sh
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- CHEM 1405 - Survey of General Chemistry
  or
- CHEM 1411 - General and Quantitative Chemistry I
- BLED 401 - Foundations of Bilingual/ESL (English as a Second Language) Education
- SPED 346 - Introduction to Exceptional Children
- MATH 351 - Topics in Mathematics for Elementary Teachers II
• PSY 300 - Learning Processes and Development
• PHYS 1401 - College Physics
  or
• PHYS 1402 - College Physics

Total (32 sh)

Junior

• ELED 300 - Introduction to Teaching
• IS 351 - Inquiry: Knowledge and Skills of Science
• IS 451 - Historical Development of Great Ideas in Science
• BLED 412 - Second Language Literacy for English Language Learners
• ENG 457 - Teaching English as a Second Language
• IS 352 - Science Inquiry II
• MLED 314 - Young Adolescent Development
• RDG 380 - Comprehension and Vocabulary in Middle and High Schools
• PSY 310 - Psychology and Sociology of Diverse Populations
• BLED 413 - Sheltered Content Area Instruction for English Language Learners
• BSC 461 - Biology for Middle School Teachers
• ESCI 461 - Earth Science for Teachers

Total (36 sh)

Senior

Science elective

Internship

• MLED 402 - Best Practices in Pedagogy and Assessment
• MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
• MLED 435 - Integrating Instruction: Science, Mathematics and Technology
• RDG 450 - Building a Community of Readers
• ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Residency
• MLED 410 - Fostering School, Family, and Community Relationships
• ELED 452 - Student Teaching in Field-Based Teacher Education Programs
• SPED 480 - Issues for Inclusion

Total (28 sh)

Total Semester Hours: 130

Teacher Certification, 4-8 Science

Interdisciplinary courses

• MATH 350 - Topics in Mathematics for Elementary Teachers I
• MATH 351 - Topics in Mathematics for Elementary Teachers II
• IS 351 - Inquiry: Knowledge and Skills of Science
• IS 352 - Science Inquiry II
• SPED 346 - Introduction to Exceptional Children

Specialization Courses

• Science Elective, 3 sh
• Lab Science, 8 sh
• IS 451 - Historical Development of Great Ideas in Science

• ESCI 461 - Earth Science for Teachers
• BSC 461 - Biology for Middle School Teachers
• CHEM 1405 - Survey of General Chemistry
  or
• CHEM 1411 - General and Quantitative Chemistry I
• PHYS 1401 - College Physics
  or
• PHYS 1402 - College Physics

Professional Development courses Pre-Internship
- ELED 200 - Schools and Society
- ELED 300 - Introduction to Teaching
- MLED 314 - Young Adolescent Development
- PSY 300 - Learning Processes and Development
- PSY 310 - Psychology and Sociology of Diverse Populations
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools

Internship courses

- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- RDG 450 - Building a Community of Readers
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Residency courses

- MLED 404 - Developing Communication Skills
- MLED 410 - Fostering School, Family, and Community Relationships
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- ENG 1301 - College Reading and Writing
- HIST 1301 - US History to 1877
- MATH 1314 - College Algebra
  US Science, 4 sh
  US PE Activity, 1 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
  or PSCI 220, 221
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- ENG 1302 - Written Argument and Research
- HIST 1302 - US History from 1865
  US Science, 4 sh
  US PE Activity 1 sh

Total (34 sh)

Sophomore

- US Vis/Perf Arts, 3 sh
- US Soc/Behav, 3 sh
- US Humanities, 3 sh
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- ELED 200 - Schools and Society
- MLED 314 - Young Adolescent Development
- SPED 346 - Introduction to Exceptional Children
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- PSY 300 - Learning Processes and Development
- CHEM 1405 - Survey of General Chemistry
  or
- CHEM 1411 - General and Quantitative Chemistry I

Total (31 sh)

Junior

- Science Elective
- ELED 300 - Introduction to Teaching
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- IS 351 - Inquiry: Knowledge and Skills of Science
- PHYS 1401 - College Physics
  or
- PHYS 1402 - College Physics
- PSY 310 - Psychology and Sociology of Diverse Populations
- IS 352 - Science Inquiry II
- IS 451 - Historical Development of Great Ideas in Science
- BSC 461 - Biology for Middle School Teachers
- ESCI 461 - Earth Science for Teachers

Total (31-32 sh)
Senior

Internship

- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- RDG 450 - Building a Community of Readers
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Residency

- MLED 404 - Developing Communication Skills
- MLED 410 - Fostering School, Family, and Community Relationships
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

Total (27 sh)

Total Semester Hours: 123

Teacher Certification, 4-8 Mathematics

Interdisciplinary courses

- 3 sh from the following:
  - IS 352 - Science Inquiry II or BSC 461 - Biology for Middle School Teachers or ESCI 461 - Earth Science for Teachers or IS 451 - Historical Development of Great Ideas in Science
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- SPED 346 - Introduction to Exceptional Children
- IS 351 - Inquiry: Knowledge and Skills of Science
Specialization Courses

- MATH 301 - Introductory Geometry
- MATH 361 - Mathematical Modeling of Science for Middle School I
- MATH 362 - Mathematical Modeling of Science for Middle School II
- MATH 372 - Mathematics Structures and Applications
- MATH 380 - Mathematics History
- MATH 453 - Essentials of Statistics

Professional Development courses Pre-Internship

- ELED 200 - Schools and Society
- ELED 300 - Introduction to Teaching
- MLED 314 - Young Adolescent Development
- PSY 300 - Learning Processes and Development
- PSY 310 - Psychology and Sociology of Diverse Populations
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools

Internship courses

- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- RDG 450 - Building a Community of Readers
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Residency courses

- MLED 404 - Developing Communication Skills
- MLED 410 - Fostering School, Family, and Community Relationships
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

SUGGESTED CURRICULUM OUTLINE (B.S.)
Freshman

- ENG 1301 - College Reading and Writing
- HIST 1301 - US History to 1877
- MATH 1314 - College Algebra
  - US Science, 4 sh
  - US PE Activity, 1 sh
- PSCI 2301 - Principles of United States and Texas Government
  - PSCI 2302 - United States and Texas Government: Institutions and Policies
    or
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- ENG 1302 - Written Argument and Research
- HIST 1302 - US History from 1865
- MATH 350 - Topics in Mathematics for Elementary Teachers I
  - US PE Activity, 1 sh

Total (33 sh)

Sophomore

- US Vis/Perf Arts, 3 sh
- US Soc/Behav, 3 sh
- US Science, 4 sh
- ELED 200 - Schools and Society
  - US Humanities, 3 sh
- MLED 314 - Young Adolescent Development
- SPED 346 - Introduction to Exceptional Children
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- MATH 372 - Mathematics Structures and Applications

Total (28 sh)

Junior

- ELED 300 - Introduction to Teaching
- IS 351 - Inquiry: Knowledge and Skills of Science
- MATH 301 - Introductory Geometry (fall & summer)
- MATH 361 - Mathematical Modeling of Science for Middle School I (fall only)
- PSY 300 - Learning Processes and Development
- MATH 362 - Mathematical Modeling of Science for Middle School II (spring only)
- MATH 453 - Essentials of Statistics (spring & summer only)
- IS 352 - Science Inquiry II
  or
- IS 451 - Historical Development of Great Ideas in Science
  or
- BSC 461 - Biology for Middle School Teachers
  or
- ESCI 461 - Earth Science for Teachers
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- PSY 310 - Psychology and Sociology of Diverse Populations

Total (27 sh)

Senior

- MATH 380 - Mathematics History (fall only)

Internship

- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- RDG 450 - Building a Community of Readers

Residency (15 sh)

- MLED 404 - Developing Communication Skills
- MLED 410 - Fostering School, Family, and Community Relationships
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

Total (30 sh)
Total Semester Hours: 121

Teacher Certification, 4-8 Math/Science

Interdisciplinary courses

- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- IS 351 - Inquiry: Knowledge and Skills of Science
- IS 352 - Science Inquiry II
- SPED 346 - Introduction to Exceptional Children

Specialization Courses

- MATH 301 - Introductory Geometry
- MATH 361 - Mathematical Modeling of Science for Middle School I
- MATH 362 - Mathematical Modeling of Science for Middle School II
- MATH 372 - Mathematics Structures and Applications
- MATH 380 - Mathematics History
- MATH 453 - Essentials of Statistics
- CHEM 1405 - Survey of General Chemistry
  or
- CHEM 1411 - General and Quantitative Chemistry I
- PHYS 1401 - College Physics
  or
- PHYS 1402 - College Physics
- IS 451 - Historical Development of Great Ideas in Science
- BSC 461 - Biology for Middle School Teachers
- ESCI 461 - Earth Science for Teachers

Professional Development courses Pre-Internship

- ELED 200 - Schools and Society
- ELED 300 - Introduction to Teaching
- MLED 314 - Young Adolescent Development
- PSY 300 - Learning Processes and Development
- PSY 310 - Psychology and Sociology of Diverse Populations
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools

Internship Courses

- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- RDG 450 - Building a Community of Readers
- SPED 480 - Issues for Inclusion
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Residency courses

- MLED 404 - Developing Communication Skills
- MLED 410 - Fostering School, Family, and Community Relationships
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- ENG 1301 - College Reading and Writing
- HIST 1301 - US History to 1877
- MATH 1314 - College Algebra
- US Science 4 sh
- US PE Activity, 1 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
  or PSCI 220, 221
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- ENG 1302 - Written Argument and Research
- HIST 1302 - US History from 1865
- MATH 350 - Topics in Mathematics for Elementary Teachers I
  US PE Activity, 1 sh
- ELED 200 - Schools and Society

Total (36 sh)

Sophomore

- US Vis/Perf Arts, 3 sh
- US Soc/Behav, 3 sh
- US Humanities, 3 sh
- PSY 300 - Learning Processes and Development
- CHEM 1405 - Survey of General Chemistry
  or
- CHEM 1411 - General and Quantitative Chemistry I
- MLED 314 - Young Adolescent Development
- SPED 346 - Introduction to Exceptional Children
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- PHYS 1401 - College Physics
or

- PHYS 1402 - College Physics

Total (36 sh)

Junior

- ELED 300 - Introduction to Teaching
- IS 351 - Inquiry: Knowledge and Skills of Science
- MATH 361 - Mathematical Modeling of Science for Middle School I (fall only)
- IS 451 - Historical Development of Great Ideas in Science
- MATH 301 - Introductory Geometry (fall & summer)
- MATH 362 - Mathematical Modeling of Science for Middle School II (spring only)
- MATH 453 - Essentials of Statistics (spring & summer only)
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- IS 352 - Science Inquiry II
- PSY 310 - Psychology and Sociology of Diverse Populations
- BSC 461 - Biology for Middle School Teachers
- ESCI 461 - Earth Science for Teachers

Total (36 sh)

Senior

- MATH 380 - Mathematics History (fall only)

Internship

- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- RDG 450 - Building a Community of Readers
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Residency (15 sh)
- MLED 410 - Fostering School, Family, and Community Relationships
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

Total (30 sh)

Total Semester Hours: 138

Teacher Certification, 4-8 English/Language Arts Reading

Interdisciplinary courses

- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- SPED 346 - Introduction to Exceptional Children
- IS 351 - Inquiry: Knowledge and Skills of Science
- IS 352 - Science Inquiry II

Specialization Courses

- ENG 202 - Multi-Ethnic American Literature
  (can also satisfy humanities option of University Studies requirement)
- ENG 300 - Reading, Analyzing, Teaching Literature
- ENG 301 - Modern Grammar
- ENG 305 - Children’s Literature
- ENG 323 - Mythology
  or
- ENG 432 - History and Aesthetics of Film
  or
- ENG 434 - Literature and Film
  (can also satisfy visual and performing arts option of University Studies requirement)
- ENG 406 - Adolescent Literature
- ENG 331 - Introduction to Linguistics
  or
- ENG 317 - Word Building
- ENG 333 - Advanced Writing: Non-Fiction

Professional Development courses Pre-Internship

- ELED 200 - Schools and Society
- ELED 300 - Introduction to Teaching
- MLED 314 - Young Adolescent Development
- PSY 300 - Learning Processes and Development
- PSY 310 - Psychology and Sociology of Diverse Populations
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools

Internship courses

- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- RDG 450 - Building a Community of Readers
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Residency courses

- MLED 404 - Developing Communication Skills
- MLED 410 - Fostering School, Family, and Community Relationships
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SPED 480 - Issues for Inclusion

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- ENG 1301 - College Reading and Writing
- HIST 1301 - US History to 1877
- MATH 1314 - College Algebra
- US Science, 4 sh
- US PE Activity, 1 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
  or PSCI 220, PSCI 221
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- ENG 1302 - Written Argument and Research
- HIST 1302 - US History from 1865
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- US PE Activity 1 sh

Total (33 sh)

Sophomore

- US Vis/Perf Arts, 3 sh (recommended ENG 434 - Literature and Film or ENG 432 - History and Aesthetics of Film)
- US Soc/Behav, 3 sh
- US Science, 4 sh
- US Humanities, 3 sh (recommended ENG 202 - Multi-Ethnic American Literature)
- ENG 333 - Advanced Writing: Non-Fiction
- ELED 200 - Schools and Society
- MLED 314 - Young Adolescent Development
- SPED 346 - Introduction to Exceptional Children
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- ENG 202 - Multi-Ethnic American Literature
- ENG 317 - Word Building
  or
- ENG 331 - Introduction to Linguistics

Total (34 sh)

Junior

- ELED 300 - Introduction to Teaching
- IS 351 - Inquiry: Knowledge and Skills of Science
- ENG 305 - Children’s Literature
- PSY 300 - Learning Processes and Development
- ENG 301 - Modern Grammar
• ENG 323 - Mythology
  or
• ENG 432 - History and Aesthetics of Film
  or
• ENG 434 - Literature and Film
• RDG 380 - Comprehension and Vocabulary in Middle and High Schools
• PSY 310 - Psychology and Sociology of Diverse Populations
• IS 352 - Science Inquiry II
• ENG 300 - Reading, Analyzing, Teaching Literature
• ENG 406 - Adolescent Literature

Total (33 sh)

Senior

Internship (15 sh)

• MLED 402 - Best Practices in Pedagogy and Assessment
• MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
• MLED 435 - Integrating Instruction: Science, Mathematics and Technology
• RDG 450 - Building a Community of Readers
• ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Residency (12 sh)

• MLED 404 - Developing Communication Skills
• MLED 410 - Fostering School, Family, and Community Relationships
• ELED 452 - Student Teaching in Field-Based Teacher Education Programs
• SPED 480 - Issues for Inclusion

Total (27 sh)

Total Semester Hours: 127
Teacher Certification, Secondary and All-level

Major Content Area Courses (See your major content department for course work requirements)

Specialization courses or Support courses

Major Content Area Courses (See your major content department for course work requirements)

Professional Development courses Pre-Internship

- SED 200 - Schools, Community, and Society
- SED 300 - The Teaching Profession
- PSY 300 - Learning Processes and Development
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum

Professional Development courses Internship-Residency

- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 405 - Residency in Secondary Teaching
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Bachelor of Arts/Bachelor of Science

Applied Physics B.A./B.S.
This program consists of a core of technical courses in physics, chemistry, mathematics, and computer science combined with courses needed to satisfy the University Studies requirements. Beyond that, the student chooses an option consistent with his or her future career plans. The options currently available are Computer Science, Business Applications, and Materials Science. Each of these focused options will earn the student an appropriate minor to satisfy the catalog requirements of a major and a minor. These options are tightly organized and do not make allowances for electives outside those allowed in the University Studies requirements and within the various specified categories. Advisement plans are handled on an individual basis with a departmental advisor and example plans are available within the physics department.

Core courses for each of the options (86 sh)

- Additional University Studies requirements (32 sh)
- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- MATH 314 - Calculus III
- MATH 315 - Differential Equations
- PHYS 132 - Basic Electronics for Scientists and Engineers
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II
- PHYS 321 - Atomic Physics
- PHYS 333 - Wave Motion, Acoustics, and Optics
- PHYS 401 - Current Problems
- PHYS 317 - Mathematical Physics I
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- CSCI 151 - Programming Fundamentals I

Plus 4 sh from:

- PHYS 441 - Advanced Physics Laboratory
  or
- PHYS 418 - Undergraduate Research
  or
- PHYS 489 - Independent Study
  or student co-op

Computer Science Option (120 sh)

This course of study provides background for employment in areas requiring physical science and advanced computer applications background. Career area examples which utilize these skills are microcomputers, electronics, signal processing, scientific data analysis, computer based instrumentation, and telecommunications. This program, when appropriate courses are chosen, provides the basic course requirements for entry into various engineering graduate programs including the TAMU electrical engineering masters program. The student desiring entry into advanced engineering programs should consult a departmental advisor for specifics.

Required courses above the core including courses for a minor in computer science (37 sh)
- CSci 320
- ENGR 111 - Foundations of Engineering I
- ENGR 211 - Principles of Engineering I
- PHYS 412 - Advanced Electricity and Magnetism
- PHYS 432 - Advanced Electronics
- CSCI 152 - Programming Fundamentals II
- CSCI 241 - Machine Language and Computer Organization
- CSCI 321 - Survey of Algorithmic Languages
- CSCI 322 - Computer Organization
- CSCI 332 - Digital Logic and Circuitry

Plus 1 course from:

- CSCI 340 - Introduction to Database
- CSCI 359 - Systems Analysis and Design
- CSCI 430 - Operating Systems
- PHYS 421 - Materials Science

Business Applications Option (120 sh)

This course of study provides basic business background in addition to technical expertise. Career examples include scientific entrepreneurial activities, technical sales, and international technical product development.

Required courses including requirements for a minor in general business (34 sh)

- 6 sh of foreign language
- PHYS 332 - Digital Logic and Circuitry
- CSCI 340 - Introduction to Database
- ACCT 221 - Principles of Accounting I
- FIN 304 - Introduction to Business Finance
- MKT 306 - Marketing
- BA 301 - Legal Environment of Business
- MGT 307 - Operations Management

Plus 1 course from:

- PHYS 420 - Introduction to Wave Mechanics
- PHYS 430 - Optics
- PHYS 411 - Advanced Mechanics
- PHYS 412 - Advanced Electricity and Magnetism
- PHYS 414 - Thermodynamics and Kinetic Theory

Plus 1 course from:
Materials Science Option (121 sh)

This option provides for a minor in chemistry with a strong emphasis in the area of materials science. Graduates of this program are prepared for advanced study and for employment in companies who utilize modern materials testing methods, fabrication techniques, and product development based upon electronic and structural properties of materials.

Required major and support courses including requirements for a minor in chemistry (35 sh)

- PHYS 411 - Advanced Mechanics
- PHYS 412 - Advanced Electricity and Magnetism
- PHYS 414 - Thermodynamics and Kinetic Theory
- PHYS 420 - Introduction to Wave Mechanics
- PHYS 421 - Materials Science
- PHYS 430 - Optics
- CHEM 211 - Organic Chemistry I
- CHEM 340 - Quantitative and Instrumental Analysis
- CHEM 351 - Physical Chemistry I
- CHEM 352 - Physical Chemistry II
- CHEM 441 - Instrumental Analysis

Art B.A./B.S.

University Studies Courses (43 sh)

See the University Studies Requirements http://catalog.tamu-commerce.acalog.com/content.php?catoid=12&navoid=415

Foundations Classes in Art (34 + 12 semester hours)

- ART 110 - Drawing I
- ART 111 - Two-Dimensional Design and Color Theory
- ART 112 - Drawing II
- ART 140 - Three-Dimensional Design and Color Theory
- ART 141 - Introduction to Practical Woodworking Applications and Woodshop Safety
• ART 1303 - History of Art I  
  *Also counts for University Studies Visual and Performing Arts requirement
• PHO 111 - Introduction to Digital Media
• ART 213 - Figure Drawing
• ART 380 - Experimental Concepts
• ART 404 - Contemporary Issues
• ART 405 - History of Modern Art

12 hours from the following:

• ART 216 - Sophomore Studio: Introduction to Communication Design
• ART 227 - Sophomore Studio: Introduction to Painting
• ART 240 - Sophomore Studio: Introduction to Sculpture
• ART 250 - Sophomore Studio: Introduction to Ceramics
• PHO 208 - Basic Photography I

Required Support Courses in Art

• 21 sh in advanced (300 or 400-level) ART or PHO electives

(122 Semester Hours)

Arts and Sciences All-Level Teacher Certification

University Studies courses (43 semester hours)

• See the University Studies Requirements [http://catalog.tamu-commerce.acalog.com/content.php?catoid=12&navoid=415](http://catalog.tamu-commerce.acalog.com/content.php?catoid=12&navoid=415)

Foundations Classes in Art (34 + 12 semester hours)

• ART 110 - Drawing I
• ART 111 - Two-Dimensional Design and Color Theory
• ART 112 - Drawing II
• ART 140 - Three-Dimensional Design and Color Theory
• ART 141 - Introduction to Practical Woodworking Applications and Woodshop Safety
• PHO 111 - Introduction to Digital Media
• ART 1303 - History of Art I
*Also counts for University Studies requirement in the category of Visual and Performing Arts.

- ART 213 - Figure Drawing
- ART 380 - Experimental Concepts
- ART 404 - Contemporary Issues
- ART 405 - History of Modern Art

Sophomore Studio Courses (12 semester hours from the following):

- ART 216 - Sophomore Studio: Introduction to Communication Design
- ART 227 - Sophomore Studio: Introduction to Painting
- ART 240 - Sophomore Studio: Introduction to Sculpture
- ART 250 - Sophomore Studio: Introduction to Ceramics
- PHO 208 - Basic Photography I

Required Support Courses in Art (12 semester hours)

3 semester hours from:
- ART 422 - Painting II

3 semester hours from:
- ART 340 - Sculpture I: Introduction to Fabric, Video, Performance and Public Art
- ART 440 - Sculpture II: Advanced Studio Problem Solving with an Emphasis on Installation Techniques
- ART 441 - Sculpture II A: Advanced Studio Problem Solving with Solo Exhibitions

3 semester hours from:
- ART 350 - Ceramics I
- ART 450 - Ceramics II
- ART 451 - Ceramics III

6 semester hours from:
- Any advanced (300 or 400-level) courses in Art or Photography

Courses in the College of Education (27 semester hours)

The courses below must be completed before the Residency Semester:

- PSY 300 - Learning Processes and Development
- SED 300 - The Teaching Profession
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum

The Residency Semester (Field-Based study, Observation, and Teaching:...
• SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
• SED 404 - Internship in Secondary Teaching
• SED 405 - Residency in Secondary Teaching

Additional Requirements for All-Level Certification:

• Overall GPA of 2.5 at time of graduation.
• Junior Level Essay Examination or equivalent test scores/course work.
• Admission to and completion of all benchmarks of the Teacher Education Program. (For specific requirements see the University Catalog.)
• Minimum of 60 semester hours completed at this or other senior institution.
• Minimum of 25% of all coursework must be completed at A&M-Commerce.
• Minimum of 24 sh of final 30 sh must be completed at A&M-Commerce.
• Acceptance into the Internship Program through the College of Education.
• Departmental approval to take the TExES (State certifying exam).
• Passing scores in the TExES.
• To earn a Bachelor's of Art in All-Level Teaching Certification a student must complete at least 12 semester hours (4 courses) in one foreign language; or 6 sh above the elementary courses if 2 units of high school credit in the language have been submitted as a part of the regular university admission requirements; or complete 3 semester hours if he presents 3 or 4 high school credits.

Total Semester Hours: 125-128

Composite Social Studies B.A./B.S.

Required courses in the major (51 sh)

• ECO 2301 - Principles of Macro Economics
• ESCI 425 - Weather, Climate, and Human Environment
• HIST 253 - Reading and Writing History
• HIST 303 - Historical Geography
• HIST 305 - World History: Origins through the Seventeenth Century
• HIST 306 - The Emergence of the Modern World
• PSCI 330 - Introduction to Political Science
• PSCI 335 - Political Economy

Plus Total 12 sh From:

• PSCI 331 - European Political Systems or PSCI 333 - Non-European Political Systems
• PSCI 410 - European Political Theory I or PSCI 411 - European Political Theory II or PSCI 412 - European Political Theory III
• PSCI 437 - Foreign Policy or PSCI 438 - International Relations
• PSCI 442 - Constitutional Law

Plus 3 sh from:

• HIST 400 - Controversies in History and Social Studies or HIST 411 - Race and Education in the 20th Century US

Plus 3 sh Non-U.S. History:

• HIST 312 - Ancient and Medieval Europe
• HIST 313 - A Feudal Society
• HIST 314 - The European Reformations
• HIST 315 - Early Modern Europe
• HIST 327 - Europe in the Age of Enlightenment and Revolution, 1648-1848
• HIST 329 - Women and Gender in European History
• HIST 333 - Modern Europe, 1848-1991
• HIST 334 - Urban Underworlds: The City and Its People in Modern Europe
• HIST 360 - Themes in World History
• HIST 365 - History of Modern East Asia
• HIST 375 - Colonial Latin America or HIST 385 - Latin America in the Modern Period

Plus 3 sh U.S. History:

• HIST 402 - Colonial North America to 1775
• HIST 403 - Revolutionary America and the Early National United States, 1775-1850
• HIST 404 - Religion in Early American History
• HIST 407 - Emergence of Modern America, 1850-1920
• HIST 409 - The Twentieth-Century United States
• HIST 425 - History of the American South
• HIST 437 - American Diplomatic History or HIST 439 - War in the Modern World

Plus 6 sh from:

• PSCI 341 - The American Presidency
• PSCI 344 - American Political Parties and Electoral Politics or PSCI 441 - Congressional Politics

Other Requirements
A grade of “C” or higher must be earned in all History, Political Science, Economics, and Science courses required for this major. Fifteen semester hours of the major must be taken at Texas A&M University-Commerce.

**Criminal Justice B.A./B.S.**

The broadfield major in criminal justice is designed for students who wish to receive the Bachelor of Arts or Bachelor of Science in Criminal Justice. The curriculum has a multi-disciplinary foundation, is social science oriented, is academic in content, and emphasizes the development of knowledge and skills essential for a broad understanding of the criminal justice system. The objective of the major is to prepare students for entry level positions in law enforcement, juvenile justice, courts, community based corrections, institutional corrections, and other related fields.

**Required core courses**

24 semester hours from:

- CJ 101 - Introduction to Criminal Justice
- CJ 201 - Police and Law Enforcement
- CJ 326 - Juvenile Delinquency
- CJ 330 - Crime and Criminology
- CJ 301 - Criminal Investigation or CHEM 302 - Introductory Criminalistics
- CJ 430 - Courts and Criminal Procedure or CJ 431 - Criminal Law
- CJ 468 - Correctional Systems or CJ 478 - Community-Based Corrections
- CJ 470 - Criminal Justice Internship I or CJ 480 - Senior Seminar in Criminal Justice

**Required support courses**

22 semester hours from:

- ANTH 2351 - World Cultures: Perspectives from Anthropology
- SOC 1301 - Introduction to Sociology
- SOC 320 - Deviant Behavior
- SOC 331 - Introduction to Social Research
- SOC 332 - Methods of Sociological Analysis
- SOC 370 - Minority Groups
- PSY 316 - Abnormal Psychology or PSY 317 - Psychology of Personality or PSY 322 - Understanding Human Development or PSY 339 - Forensic Psychology

**Electives**

- A second major or a minor is not required for students electing this major.

12 semester hours from:
- CJ 360 - Mass Media and Crime
- CJ 420 - Crime Profiling
- CJ 430 - Courts and Criminal Procedure or CJ 431 - Criminal Law
- CJ 470 - Criminal Justice Internship I or CJ 480 - Senior Seminar in Criminal Justice (whichever of the two is not taken as core)
- CJ 468 - Correctional Systems or CJ 478 - Community-Based Corrections (whichever of the two is not taken as core)
- CJ 488 - Ethics in Criminal Justice
- CJ 497 - Special Topics
- PSCI 223 - Legal Research
- PSCI 325 - Family Law
- PSCI 342 - Introduction to Global Public Policy
- SPA 131 - Elementary Spanish I
- Also, any 300-400 level SOC course. Except: SOC 320, 331, 332, 370, and 485

Additional Requirements

- Students seeking a B.A. Degree must fulfill the Foreign Language Requirement
- A grade of "C" or higher must be earned for all SOC and CJ courses required for this major
- Fifteen Semester hours in CJ courses must be taken at Texas A&M University-Commerce
- Courses transferred in from a Community College may not count for 300-400 level course

Health B.A./B.S. - All-Level Teacher Certification

The purpose of the major in health all-level certification (33 semester hours) is to prepare teachers for early childhood through grade twelve in health. A graduate should possess the following competencies: (1) knowledge and skills that promote individual health and safety; (2) awareness of forces which support and inhibit a well environment; and (3) knowledge in program planning, essential knowledge and skills, teaching methods and evaluation; (4) life-saving skills and accident prevention principles; and (5) knowledge of appropriate guidelines for food selection, intake, and utilization which improve the dietary habits of groups and individuals.

All-Level Teacher Certification in Health

Required courses in the major (33 sh)

- HHPH 130 - Introduction to Personal and Community Health
- HHPH 172 - Systems of the Human Body
- HHPK 211 - First Aid and Safety
- HHPH 250 - Consumer Health
- HHPH 265 - Substance Use and Abuse
- HHPH 331 - Nutrition
- HHPH 362 - Human Diseases
- HHPH 382 - Elementary & Secondary School Materials in Health Education
- HHPH 385 - Current Issues in Health
- HHPH 430 - Health Promotion with Special Populations
• HHPH 472 - Stress Management

Required support courses (9 sh)

• HHPK 324 - Health and Kinesiology for Children
• HHPK 274 - Adapted Physical Education
• HHPK 154 - Concepts of Physical Activity

Required courses in a supporting field (9 sh)

9 sh to be selected from

• BSC 2401 - Human Anatomy and Physiology I
• BSC 2402 - Human Anatomy and Physiology II
• PSY 322 - Understanding Human Development
• PSY 443 - Psychology of Death and Dying
• SOC 350 - Drugs and Society

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

• US Soc/Behav Sci, 3 sh
• US Humanities, 3 sh
• CED 111
• HHPH 130 - Introduction to Personal and Community Health
• HHPH 172 - Systems of the Human Body
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865

• MATH 1314 - College Algebra
  or
• MATH 1324 - Mathematics for Business Applications
  or
• MATH 179 - Mathematics: Applications and Philosophy

• CSCI 126 - Microcomputer Applications
  or
• ETEC 224 - Computer Literacy

Total (34 sh)
Sophomore

- US Science, 8 sh
- HHPH 250 - Consumer Health
- HHPH 265 - Substance Use and Abuse
- HHPH 274 - Adapted Physical Education
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- HHPK 154 - Concepts of Physical Activity
- HHPK 324 - Health and Kinesiology for Children
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (32 sh)

Junior

- US Vis/Perf Arts, 3 sh
- Supporting Field, 9 sh
- US FRA (physical activity), 2 sh
- HHPH 362 - Human Diseases
- HHPH 382 - Elementary & Secondary School Materials in Health Education
- PSY 300 - Learning Processes and Development
- SED 300 - The Teaching Profession
  or
- ELED 300 - Introduction to Teaching
- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- HHPH 331 - Nutrition

Total (32 sh)

Senior

- HHPH 385 - Current Issues in Health
- HHPH 472 - Stress Management
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
• SED 404 - Internship in Secondary Teaching
• SED 405 - Residency in Secondary Teaching

Total (27 sh)

Total Semester Hours: 128

Health Promotion B.A./B.S.

The graduate should possess the following competencies: (1) knowledge and skills that promote individual and community health and safety; (2) awareness of forces which support and inhibit a well environment; (3) life saving skills and accident prevention principles; (4) knowledge of appropriate guidelines for food selection, intake and utilization which improve the dietary habits of groups and individuals and; (5) knowledge of methods for evaluating and promoting both individual and community health.

Required courses in the major (39 sh)

• HHPH 130 - Introduction to Personal and Community Health
• HHPH 210 - Environmental Health
• HHPH 220 - Emotional Health
• HHPH 250 - Consumer Health
• HHPH 265 - Substance Use and Abuse
• HHPH 331 - Nutrition
*  
• HHPH 362 - Human Diseases
*  
• HHPH 385 - Current Issues in Health
• HHPH 410 - Planning and Organization of Health Promotion
*  
• HHPH 420 - Program Implementation and Evaluation of Health Promotion
*  
• HHPH 430 - Health Promotion with Special Populations
*  
• HHPH 495 - Internship and Seminar in Health Promotion
*  
• HHPK 211 - First Aid and Safety

Required support courses (9 sh)

• BSC 2401 - Human Anatomy and Physiology I
• BSC 2402 - Human Anatomy and Physiology II
• PSY 443 - Psychology of Death and Dying
• MKT 306 - Marketing
• SOC 370 - Minority Groups
Note

*Refer to prerequisites.

**History B.A/B.S.**

Required courses in the major (36 sh)

- any 300- or 400-level History course, 3 sh
- HIST 253 - Reading and Writing History
- HIST 305 - World History: Origins through the Seventeenth Century
- HIST 306 - The Emergence of the Modern World
- HIST 360 - Themes in World History

**Early European History (3 sh Needed)**

- HIST 312 - Ancient and Medieval Europe or HIST 315 - Early Modern Europe

**Modern European History (3 sh Needed)**

- HIST 327 - Europe in the Age of Enlightenment and Revolution, 1648-1848 or HIST 333 - Modern Europe, 1848-1991

**Asia or Latin American History (3 sh Needed)**

- HIST 365 - History of Modern East Asia
- HIST 375 - Colonial Latin America or HIST 385 - Latin America in the Modern Period

**Early U.S. History (3 sh Needed)**

- HIST 402 - Colonial North America to 1775
- HIST 403 - Revolutionary America and the Early National United States, 1775-1850 or HIST 404 - Religion in Early American History

**Modern U.S. History (3 sh Needed)**
- HIST 407 - Emergence of Modern America, 1850-1920
- HIST 409 - The Twentieth-Century United States

Focused Study of European History (3 sh Needed)

- HIST 313 - A Feudal Society
- HIST 314 - The European Reformations
- HIST 329 - Women and Gender in European History or HIST 334 - Urban Underworlds: The City and Its People in Modern Europe

Focused Study of U.S. History (3 sh Needed)

- HIST 404 - Religion in Early American History
- HIST 405 - The Civil War and Reconstruction, 1850-1877
- HIST 411 - Race and Education in the 20th Century US
- HIST 425 - History of the American South
- HIST 437 - American Diplomatic History or HIST 439 - War in the Modern World

Other Requirements

A grade of “C” or higher must be earned in all History courses required for this major. Fifteen semester hours of History must be taken at Texas A&M University-Commerce.

Human Performance B.A./B.S.

The undergraduate student seeking a degree in Human Performance may choose the Exercise Physiology Track of the Motor Behavior/Biomechanics Track. The graduate should possess the following competencies: (1) knowledge basic and relative to human body function and movement; (2) knowledge of the concepts of exercise science (3) knowledge of concepts of fitness; (4) skill in a variety of physical activities; and (5) an acceptable level of physical fitness.

Required courses in the major (36 sh)

- HHPK 144 - Foundations of Kinesiology
- HHPK 211 - First Aid and Safety
- HHPK 213 - Prevention and Care of Athletic Injuries
- HHPK 250 - Physical Activity Skills I: Conditioning, Individual and Dual Sports
- HHPK 251 - Physical Activity Skills II: Team Sports
- HHPK 335 - Kinesiology and Biomechanics
Required support courses in the Exercise Physiology Track (8 sh)

- CHEM 1405 - Survey of General Chemistry
- CHEM 1407 - Survey of Organic and Biochemistry

Required support courses in the Motor Behavior/Biomechanics Track (8 sh)

- CHEM 1405 - Survey of General Chemistry
- PHYS 1401 - College Physics

Required US Science for both Tracks (11 sh)

- BSC 2401 - Human Anatomy and Physiology I
- BSC 2402 - Human Anatomy and Physiology II
- MATH 1314 - College Algebra

Note

*Refer to prerequisite.

**Interdisciplinary Studies Major (for Elementary Teaching) with Generic Special Education Specialization B.A./B.S.**

Students desiring to teach in the elementary school (EC–4) should select the interdisciplinary studies major with supplemental certification in Generic Special Education.

Required courses in the specialization (18 semester hours)

- SPED 346 - Introduction to Exceptional Children
- SPED 420 - Learners with Special Needs in Restrictive Environments
- SPED 449 - Assessment and Evaluation
- SPED 463 - Managing Special Needs Populations
SPED 466 - Practicum with Special Needs Populations  
(Field Based/Internship)

SPED 470 - Special Needs Populations in Least Restrictive Settings  
(Field Based/Residency)

Other requirements

Refer to the Department of Curriculum and Instruction’s section of this catalog.

Journalism B.A./B.S.

Emphasis in News-Editorial

The news-editorial emphasis provides students with the opportunity to obtain a liberal arts education and equips graduates with the intellectual background and professional skills required for entry-level positions and careers in print media journalism, especially community newspapers. The graduate with this major emphasis should possess competencies in news writing and have an understanding of journalistic law and media ethics.

Required courses in the major (30 sh)

- JOUR 115 - Publication Design and Production
- JOUR 214 - Basic Reporting
- JOUR 260 - Advertising Principles
- JOUR 314 - Intermediate Reporting
- JOUR 315 - Editing and Production
- JOUR 326 - Advanced Reporting/Feature Writing
- JOUR 335 - Media History
- JOUR 336 - Media Law
- JOUR 445 - Ethics in the Media
- JOUR 495 - Media Internship

Journalism electives (Adv), 6 sh from

- Special Topics electives as approved by the division coordinator.
- JOUR 316 - Topics in Community Newspaper Journalism
- JOUR 329 - Writing for Public Relations
- JOUR 350 - Visual Communication for News Publications

Required support courses (9 sh)

- JOUR 1307 - Mass Communication in Society
Other requirements

A minimum grade of “C” must be earned in courses required for this major. Only one 489 (Independent Study) can be applied to the student’s degree plan in his/her major. This limitation does not apply to Jour 397 and 497 Special Topics courses.

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- US Science, 4 sh
- US PE Activity, 1 sh
- JOUR 1307 - Mass Communication in Society
- JOUR 214 - Basic Reporting
- JOUR 115 - Publication Design and Production
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

- MATH 1314 - College Algebra
  or
- MATH 1324 - Mathematics for Business Applications
  or
- MATH 179 - Mathematics: Applications and Philosophy

Total (29 sh)

Sophomore

- US Science, 4 sh
- US PE Activity, 1 sh
- JOUR 260 - Advertising Principles
- JOUR 314 - Intermediate Reporting
- JOUR 315 - Editing and Production
- JOUR 316 - Topics in Community Newspaper Journalism

- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking

- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SOC 331 - Introduction to Social Research
- ECO 2301 - Principles of Macro Economics

Total (32 sh)

Junior

- Jour Elective, 3 sh (Adv)
- Minor Electives, 9 sh (3 Adv)
- US Vis/Perf Arts, 3 sh
- Electives, 3 sh
- JOUR 315 - Editing and Production
- JOUR 326 - Advanced Reporting/Feature Writing
- JOUR 335 - Media History
- JOUR 336 - Media Law

Total (30 sh)

Senior

- Minor (6 Adv), 9 sh
- Jour Elective (Adv), 3 sh
- Electives (Adv), 9 sh
- US Capstone, 3 sh
- JOUR 495 - Media Internship

Total (30 sh)

Total Semester Hours: 121

Emphasis in Public Relations

The public relations emphasis provides students with the opportunity to obtain a liberal arts education and equips graduates with the professional skills required for entrylevel positions and careers in public relations at corporate, organizational, governmental/public affairs and non-profit institutions. The graduate with this major emphasis should possess competencies in written communication, verbal communication, problem-solving, and interpersonal skills, and have an understanding of journalistic law and media ethics.

Required courses in the major (36 sh)
• JOUR 115 - Publication Design and Production
• JOUR 214 - Basic Reporting
• JOUR 260 - Advertising Principles
• JOUR 315 - Editing and Production
• JOUR 328 - Public Relations Principles
• JOUR 329 - Writing for Public Relations
• JOUR 335 - Media History
• JOUR 336 - Media Law
• JOUR 425 - Public Relations Case Studies
• JOUR 426 - Public Relations Campaigns
• JOUR 445 - Ethics in the Media
• JOUR 495 - Media Internship
• MKT 306 - Marketing
  or
• MKT 422 - Electronic Commerce

Required support courses (6 sh)

• SOC 331 - Introduction to Social Research
• ECO 2301 - Principles of Macro Economics

Other Requirements

A minimum grade of “C” must be earned in courses required for this major. Only one 489 (Independent Study) can be applied to the student’s degree plan in his/her major. This limitation does not apply to Jour 397 and 497 Special Topics courses.

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

• US Vis/Perf Arts, 3 sh
• US Science, 4 sh
• US PE Activity, 1 sh
• JOUR 1307 - Mass Communication in Society
• JOUR 115 - Publication Design and Production
• JOUR 260 - Advertising Principles
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865
- MATH 1314 - College Algebra
  or
- MATH 1324 - Mathematics for Business Applications
  or
- MATH 179 - Mathematics: Applications and Philosophy

Total (32 sh)

Sophomore

- US Science, 4 sh
- JOUR 214 - Basic Reporting
- JOUR 314 - Intermediate Reporting
  or
- JOUR 315 - Editing and Production
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SOC 331 - Introduction to Social Research
- ECO 2301 - Principles of Macro Economics

Total (28 sh)

Junior

- Minor, 9 sh (3 Adv)
- Electives, 9 sh (3 Adv)
- US PE Activity, 1 sh
- JOUR 328 - Public Relations Principles
- JOUR 329 - Writing for Public Relations
- JOUR 335 - Media History
- JOUR 336 - Media Law
- MKT 306 - Marketing

Total (34 sh)

Senior
• Minor 9 sh (Adv)
• Electives, 6 sh (Adv)
• US Capstone, 3 sh (Adv)
• JOUR 425 - Public Relations Case Studies
• JOUR 426 - Public Relations Campaigns
• JOUR 495 - Media Internship

Total (27 sh)

Total Semester Hours: 121

Kinesiology and Sports Studies B.A./B.S. - All-Level Teacher Certification

The purpose of the major in kinesiology all-level certification (47 semester hours) is to prepare teachers for early childhood through grade twelve in physical education. A graduate should possess the following competencies: (1) knowledge basic and relative to human body function and movement; (2) knowledge in program planning, essential knowledge and skills, teaching methods, and evaluation; (3) knowledge of concepts of fitness; (4) skill in a variety of physical activities; and (5) an acceptable level of physical fitness.

All-Level Teacher Certification in Physical Education

Required courses in the major (47 sh)

• HHPK 144 - Foundations of Kinesiology
• HHPK 154 - Concepts of Physical Activity
• HHPK 211 - First Aid and Safety
• HHPK 213 - Prevention and Care of Athletic Injuries
• HHPK 250 - Physical Activity Skills I: Conditioning, Individual and Dual Sports
• HHPK 251 - Physical Activity Skills II: Team Sports
  *
• HHPK 274 - Adapted Physical Education
• HHPK 304 - Motor Development
• HHPK 314 - Teaching Methods in Physical Education I
• HHPK 315 - Teaching Methods in Physical Education II
• HHPK 335 - Kinesiology and Biomechanics
  *
• HHPK 350 - Motor Learning and Motor Control
  *
• HHPK 417 - Measurement and Evaluation
• HHPK 444 - Administration of Kinesiology and Sports Programs
- **HHPK 450** - Exercise Physiology
  
  *Refer to prerequisite.

**Required support courses (3 sh)**
- **HHPH 331** - Nutrition

**Required US Science courses (8 sh)**
- **BSC 2401** - Human Anatomy and Physiology I
- **BSC 2402** - Human Anatomy and Physiology II

**SUGGESTED CURRICULUM OUTLINE (B.S.)**

**Freshman**
- **US Soc/Behav Sci**, 3 sh
- Electives, 3 sh
- **HHPK 144** - Foundations of Kinesiology
- **HHPK 154** - Concepts of Physical Activity
- **HHPK 250** - Physical Activity Skills I: Conditioning, Individual and Dual Sports
- **ENG 1301** - College Reading and Writing
- **ENG 1302** - Written Argument and Research
- **HIST 1301** - US History to 1877
- **HIST 1302** - US History from 1865
- **MATH 1314** - College Algebra
  or
- **MATH 1324** - Mathematics for Business Applications
  or
- **MATH 179** - Mathematics: Applications and Philosophy
- **CSCI 126** - Microcomputer Applications
  or
- **ETEC 224** - Computer Literacy

**Total (32 sh)**
Sophomore

- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- HHPK 211 - First Aid and Safety
- HHPK 213 - Prevention and Care of Athletic Injuries
- HHPK 251 - Physical Activity Skills II: Team Sports
- HHPK 274 - Adapted Physical Education

- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking

- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- BSC 2401 - Human Anatomy and Physiology I
- BSC 2402 - Human Anatomy and Physiology II

Total (35 sh)

Junior

- US FRA (physical activity) 1 sh
- HHPK 304 - Motor Development
- HHPK 314 - Teaching Methods in Physical Education I
- HHPK 315 - Teaching Methods in Physical Education II
- HHPK 335 - Kinesiology and Biomechanics
- HHPK 350 - Motor Learning and Motor Control
- HHPK 417 - Measurement and Evaluation
- HHPH 331 - Nutrition

- SED 300 - The Teaching Profession
  or
- ELED 300 - Introduction to Teaching

- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- PSY 300 - Learning Processes and Development

Total (32 sh)

Senior
- US FRA (physical activity) 1 sh
- HHPK 444 - Administration of Kinesiology and Sports Programs
- HHPK 450 - Exercise Physiology
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 405 - Residency in Secondary Teaching

Total (32 sh)

Total Semester Hours: 129

**Liberal Studies B.A./B.S.**

(120 semester hours)

**Required Courses in the Major (12 sh)**

- LibS 300
- LibS 310
- LibS 320
- LibS 400

**Language Requirement (6-12 sh)**

Two courses (6 semester hours) in foreign language or equivalent are required for a BS in Liberal Studies. Four courses (12 semester hours) in foreign language or equivalent are required for a BA in Liberal Studies.

**Concentration and Complementary Field Requirements (32 sh)**

Concentration in one subject area (20 semester hours with at least 12 advanced hours) taken from existing courses, and studies in a Complementary Field (12 semester hours with at least 6 advanced hours) taken from existing courses. An individualized degree plan in both the Concentration and the Complementary Field areas will be developed by the student in consultation with the Liberal Studies advisor.

**Other Requirements**

Enough elective courses must be taken (with at least 6 advanced semester hours) to complete, along with University Studies courses, 120 hours required for the degree.
The Concentration and Complementary Fields

Students select a Concentration (at least 20 semester hours) in either one of the four interdisciplinary fields (Child and Family Studies, Global and Multicultural Issues, Popular Culture Studies, and Ways of Seeing and Knowing) or one of the traditional disciplines represented by the College of Arts and Sciences. Students may also select courses for the Complementary Field (at least 12 semester hours) from either the College of Arts and Sciences, the College of Business and Technology, or the College of Education and Human Services. Courses available from these colleges are listed in the current Undergraduate Catalog. An overall GPA of 2.5 is required in both the concentration and complementary fields with no grade lower than a C.

Liberal Studies Interdisciplinary Fields

Liberal Studies students may focus their Concentration (20 hours) and/or Complimentary Field (12 hours) coursework in one of the more traditional disciplines within the College of Arts and Sciences, or they can choose to work in one of the four interdisciplinary concentrations:

Child and Family Studies

The Child and Family Studies concentration encourages investigation into the many facets of contemporary domestic living. This area of investigation explores such topics as home and family welfare, parental dynamics, community involvement, and childhood development.

Courses for this concentration include:

- AGED 371 - Agricultural and Youth Leadership
- CJ 326 - Juvenile Delinquency
- COUN 316 - Parent and Family Dynamics
- COUN 414 - Home and Family Living
- ECE 313 - Child Development: Early Years
- ECE 358 - Language Acquisition Development in Early Childhood Education Field-Based Settings
- ECE 364 - Survey of Theories Influencing Childhood Development
- ECE 366 - Learning Environments
- ECE 460 - Early Childhood Curriculum
- ENG 305 - Children’s Literature
- ENG 406 - Adolescent Literature
- HHPH 331 - Nutrition
- HHPH 332 - Nutrition in the School and Community
- HHPH 362 - Human Diseases
- HHPK 324 - Health and Kinesiology for Children
- PSY 300 - Learning Processes and Development
- PSY 319 - Child Growth and Development
- PSY 321 - Psychology of Adolescence
- PSY 322 - Understanding Human Development
- PSY 443 - Psychology of Death and Dying
- SOC 316 - Courtship, Mate Selection, Marriage and Family Patterns
- SOC 317 - Contemporary Issues in Marriage and Family
- SPED 346 - Introduction to Exceptional Children
- SWK 361 - Issues in Family Treatment
Global and Multicultural Issues

The Global and Multicultural Issues concentration emphasizes the diverse ways of looking at world cultures today. Its courses reflect the varying ways we understand communal and individual identity through the lens of race, ethnicity, gender, economics, politics, and culture, both in the United States and abroad. Students in this concentration are not only encouraged to enroll in courses that approach scholarship in a global context, but are also provided with an opportunity to apply that knowledge in a hands-on manner through practicum and field studies.

Courses for this concentration include:

- AG 392 - Applied Ethics: U S and World Agriculture
- ANTH 2351 - World Cultures: Perspectives from Anthropology
- ANTH 450 - Gender in Cross-Cultural Perspective
- ART 405 - History of Modern Art
- BAAS 345 - Organizational Leadership
- ENG 355 - Women Writers
- BAAS 409 - Global Technology and Society
- ENG 202 - Multi-Ethnic American Literature
- ENG 323 - Mythology
- ENG 432 - History and Aesthetics of Film
- ENG 444 - African American Literature
- HIST 303 - Historical Geography
- HIST 360 - Themes in World History
- HIST 365 - History of Modern East Asia
- HIST 497 - Special Topics in History
- PSCI 333 - Non-European Political Systems
- PSCI 438 - International Relations
- PSCI 488 - Contemporary Ideas
- SOC 310 - Psychology and Sociology of Diverse Populations
- SOC 335 - Global Social Issues
- SOC 370 - Minority Groups

Popular Culture Studies

Popular Culture Studies focuses on the many ways in which mass culture and media both reflect and inform our daily lives. The courses that make up this interdisciplinary concentration examine the ways we work, define leisure, and become consumers. They cover a wide variety of topics such as movies, television, sports, music, comics, magazines, museums, folk art, memorabilia and collecting, celebratory events, as well as the cultural ramifications of technology and advertising. Students are encouraged to engage these popular subject matters not only within their personal lives, but in light of cultural and political contexts as well.

Courses for this concentration include:

- ART 1301 - Art, Technology and Civilization
- ART 304 - American Art and Architecture
Ways of Seeing and Knowing

The Ways of Seeing and Knowing concentration is designed to enable the individual to look upon the world from multiple perspectives so as to appreciate its richness and diversity. We may be limited to our own two eyes in perceiving the world (our egocentric predicament), but by exploring ways of seeing and knowing, we can break out of our culturally-determined egocentric, ethnocentric, and aristocratic limitations to understand and appreciate the world in all its complexity.

Courses for this concentration include:

- ART 1303 - History of Art I
- ART 307 - Art in Context I
- ART 404 - Contemporary Issues
- ART 405 - History of Modern Art
- BAAS 345 - Organizational Leadership
- BAAS 350 - Knowledge Management
- BAAS 444 - Strategies for Decision Making
- CJ 488 - Ethics in Criminal Justice
- ENG 323 - Mythology
- ENG 432 - History and Aesthetics of Film
- ENG 474 - Topics in World Literature
- HIST 253 - Reading and Writing History
- MUS 323 - Music History I
- MUS 324 - Music History II
- PHIL 1301 - Introduction to Philosophy
- PHIL 2303 - Logic
- PHIL 331 - History of Philosophy I
- PHIL 332 - History of Philosophy II
- PHIL 360 - General Ethics
- PHIL 362 - Aesthetics
- PHIL 497 - Special Topics
- PSCI 330 - Introduction to Political Science
- PSCI 345 - Public Opinion
- PSCI 410 - European Political Theory I
- PSCI 411 - European Political Theory II
- PSCI 412 - European Political Theory III
- PSCI 414 - American Political Thought
- PSY 2301 - Introduction to Psychology
- PSY 310 - Psychology and Sociology of Diverse Populations
- PSY 317 - Psychology of Personality
- PSY 327 - Cognitive Social Psychology
- PSY 350 - Cognition Psychology
- PSY 443 - Psychology of Death and Dying

**Mathematics B.A./B.S.**

**Required courses in the major (36 sh)**

- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- MATH 314 - Calculus III
- MATH 331 - Discrete Mathematics
- MATH 334 - Introduction to Abstract Algebra

**Required support courses (10 sh)**

These courses may apply on a second major or minor.

- CSCI 151 - Programming Fundamentals I
- CSCI 152 - Programming Fundamentals II
- CSCI 241 - Machine Language and Computer Organization
- CSCI 270 - Data Structures and Algorithms
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II

**SUGGESTED CURRICULUM OUTLINE (B.S.)**

Freshman
- US Science, 8 sh
- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- CSCI 151 - Programming Fundamentals I

- CSCI 152 - Programming Fundamentals II
  or
- CSCI 241 - Machine Language and Computer Organization
  or
- CSCI 270 - Data Structures and Algorithms

Total (34 sh)

Sophomore

- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- US Soc/Behav Sci, 3 sh
- Second Major/Minor, 3 sh
- US PE Activity, 2 sh
- MATH 314 - Calculus III
- MATH 331 - Discrete Mathematics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (27 sh)

Junior

- Second Major/Minor, 6 sh
- Electives, 8sh
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking

- PHYS 2425 - University Physics I
  or
- PHYS 2426 - University Physics II
Total (30 sh)

Senior

- Second Major/Minor, 9 sh
- Electives, 8 sh
- MATH 334 - Introduction to Abstract Algebra

Total (29 sh)

Total Semester Hours: 120

Teacher Certification, 8-12 Mathematics

Required courses in the major (36 sh)

- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- MATH 321 - College Geometry
- MATH 331 - Discrete Mathematics
- MATH 334 - Introduction to Abstract Algebra
- MATH 335 - Linear Algebra

- MATH 401 - Introduction to Mathematical Statistics
  or
- MATH 453 - Essentials of Statistics

- MATH 426 - History of Mathematics
- MATH 437 - Elementary Number Theory
- MATH 460 - Technology and Topics in Mathematics for Secondary Teachers

Plus 4 sh from:

- MATH 142 - Pre-Calculus
- MATH 314 - Calculus III
- MATH 315 - Differential Equations
• MATH 317 - Numerical Analysis
• MATH 401 - Introduction to Mathematical Statistics
• MATH 436 - Introduction to Analysis
• MATH 438 - Complex Analysis
• MATH 440 - Introduction to Topology

Teacher Education courses

• SED 300 - The Teaching Profession
• SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
• SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
• SED 404 - Internship in Secondary Teaching
• SED 405 - Residency in Secondary Teaching
• ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
• RDG 370 - Reading and Literacy II

Required support courses (16 sh)

**Phys 211 or 212 required if not taken in the Core.

• PSY 300 - Learning Processes and Development
• SPED 346 - Introduction to Exceptional Children
  or
• SPED 475 - Collaboration, Accommodation and Modification
• PHYS 2425 - University Physics I
  **
  or
• PHYS 2426 - University Physics II
  **
• CSCI 151 - Programming Fundamentals I

Plus 3 sh from:

• CSCI 152 - Programming Fundamentals II
• CSCI 241 - Machine Language and Computer Organization
• CSCI 270 - Data Structures and Algorithms

Physics B.A./B.S.

This program is recommended for students who wish to obtain industrial employment or who wish to continue their studies for an advanced degree in physics, engineering, science or applied mathematics. Students who successfully complete this program should have a good understanding of the role of physics within the sciences and within society. Graduates of this program should
have a solid understanding of the principles and foundations of classical and modern theories of physics. They will have practiced the methods and techniques of experimental physics; they will have practical experience in utilizing the analytical and modeling tools of physics. This rigorous program of study develops analytical, problem solving and communication skills which are valuable in a wide range of employment areas.

**Required courses in the major (43 sh)**

- Phys (Adv), 6 sh
- ASTR 310 and 337, electives
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II
- PHYS 317 - Mathematical Physics I
- PHYS 321 - Atomic Physics
- PHYS 132 - Basic Electronics for Scientists and Engineers
  or
- PHYS 332 - Digital Logic and Circuitry
- PHYS 333 - Wave Motion, Acoustics, and Optics
- PHYS 401 - Current Problems
- PHYS 441 - Advanced Physics Laboratory
- PHYS 411 - Advanced Mechanics
- PHYS 412 - Advanced Electricity and Magnetism
- PHYS 420 - Introduction to Wave Mechanics

**Recommended support courses* (23 sh)**

- *These courses may apply on the second major or minor.
- CSCI 151 - Programming Fundamentals I
- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- MATH 314 - Calculus III
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II

**SUGGESTED CURRICULUM OUTLINE (B.S.)**

**Freshman**

- US PE Activity, 1 sh
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II
- MATH 2413 - Calculus I
- MATH 192 - Calculus II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• CSCI 151 - Programming Fundamentals I
  or CSci 150

Total (34 sh)

Sophomore

• US Soc/Behav Sci, 3 sh
• US PE Activity, 1 sh
• PHYS 132 - Basic Electronics for Scientists and Engineers
  or
• PHYS 321 - Atomic Physics
• PHYS 332 - Digital Logic and Circuitry
• PHYS 333 - Wave Motion, Acoustics, and Optics
• SPC 1311 - US - Studies in Human Communication
  or
• SPC 1321 - US - Business and Professional Speaking
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865
• MATH 314 - Calculus III

Total (28 sh)

Junior

• Phys (Adv), 9 sh
• Minor, 6 sh
• US Humanities, 3 sh
• US Vis/Perf Arts, 3 sh
• PHYS 317 - Mathematical Physics I
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (30 sh)
Senior

- Phys (Adv), 10 sh
- Minor, 12 sh
- Elective, 19 sh
- PHYS 401 - Current Problems

Total (28 sh)

Total Semester Hours: 120

Notes

- Mathematics 141 and 142 are required of all students who do not qualify for advanced standing.
- *In order to enroll in Physics 211, a student should have some calculus tools. If in doubt on this point, see the head of the Department of Physics.
- Suggested second majors include mathematics, chemistry, computer science, and biology. Other choices are possible.
- Planning for a second major should not be delayed beyond the middle of the sophomore year. A minor in a second subject may be chosen instead of a second major. The choice of mathematics as second major allows for four additional courses to be elective. Many students select minors in both mathematics and computer science.

Political Science B.A./B.S.

The B.A./B.S. in political science is not career specific. Political science graduates go to law school or to graduate school for further study in political science. Other career possibilities include government employment, business, teaching, and politics. They are required to be knowledgeable about the major paradigms in political theory, American politics, comparative politics, international relations, and fundamental research methods. The most important competency is the ability to think clearly and critically about politics.

Required courses in the major (36 sh)

- PSCI 335 - Political Economy
- PSCI 488 - Contemporary Ideas

Political Theory and Philosophy 2 courses from:

- PSCI 332 - Democracy and Democratization
- PSCI 410 - European Political Theory I
- PSCI 411 - European Political Theory II
- PSCI 412 - European Political Theory III
- PSCI 414 - American Political Thought
- PSCI 430 - Revolutions and Revolutionary Movements

Public Policy 2 courses from:

- PSCI 342 - Introduction to Global Public Policy
- PSCI 346 - Introduction to Public Policy
- PSCI 437 - Foreign Policy
- PSCI 442 - Constitutional Law
- PSCI 443 - Civil Liberties and Civil Rights

American Political Processes 2 courses from:

- PSCI 342 - Introduction to Global Public Policy
- PSCI 344 - American Political Parties and Electoral Politics
- PSCI 345 - Public Opinion
- PSCI 441 - Congressional Politics

Comparative Politics and International Relations 2 courses from:

- PSCI 331 - European Political Systems
- PSCI 332 - Democracy and Democratization
- PSCI 333 - Non-European Political Systems
- PSCI 415 - Introduction to Comparative Politics
- PSCI 430 - Revolutions and Revolutionary Movements
- PSCI 437 - Foreign Policy
- PSCI 438 - International Relations

Electives within the major 2 courses from:

- PSCI 222 - Introduction to Law
- PSCI 332 - Democracy and Democratization
- PSCI 333 - Non-European Political Systems
- PSCI 410 - European Political Theory I
- PSCI 411 - European Political Theory II
• PSCI 412 - European Political Theory III
• PSCI 414 - American Political Thought
• PSCI 430 - Revolutions and Revolutionary Movements

• PSCI 342 - Introduction to Global Public Policy
• PSCI 346 - Introduction to Public Policy
• PSCI 437 - Foreign Policy
• PSCI 442 - Constitutional Law
• PSCI 443 - Civil Liberties and Civil Rights

• PSCI 344 - American Political Parties and Electoral Politics
• PSCI 345 - Public Opinion
• PSCI 441 - Congressional Politics
• PSCI 341 - The American Presidency

• PSCI 415 - Introduction to Comparative Politics
• PSCI 438 - International Relations

Non-Language Course 1 from:

• MATH 301 - Introductory Geometry
• MATH 380 - Mathematics History
• MATH 453 - Essentials of Statistics
• PHIL 2303 - Logic
• SOC 331 - Introduction to Social Research
• LIBS 310 - Methods of Discovery

Notes

In addition to fulfilling these requirements, students majoring Political Science must submit a portfolio of their work in Political Science courses and complete a survey on their experiences in the program. Details may be found on the department’s website.

SUGGESTED CURRICULUM OUTLINE (B.A.)*

Freshman

• US Science, 8 sh
• FLang 131
• FLang 132
• CAS 111
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
- MATH 1314 - College Algebra
  or
- MATH 1324 - Mathematics for Business Applications
  or
- MATH 179 - Mathematics: Applications and Philosophy

- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking

- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

Total (33 sh)

Sophomore

- FLang 231
- FLang 232
- Second Major or Minor, 6 sh
- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- US Soc/Behav Sci, 3 sh
- US PE Activity, 2 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (29 sh)

Junior

- PSci, 6 sh (adv)
- Second Major or Minor, 6 sh
- Electives, 12
- PSCI 330 - Introduction to Political Science
- PSCI 335 - Political Economy

Total (30 sh)

Senior
• PSci, 12 sh (Adv)
• Second Major or Minor, 6-12 sh (Adv)
• Electives, to make a minimum of 120 sh
• PSCI 488 - Contemporary Ideas

Total (28 sh)

Total Semester Hours: 120

Notes

*B.S. students substitute Hist 264 or 265 or 304 or 305 or 306, and 9 sh electives for FLang 131, 132, 231, 232.

While some courses are included more than once in the list of required courses for the first or second major, a particular course may NOT be used to satisfy more than one requirement.

Emphasis in Paralegal Studies

The B.A./B.S. with paralegal emphasis is career-specific because it is designed to prepare people to work in support of attorneys. The program stresses the fundamentals of legal research, family law, probate, civil procedure, business organizations, law office management, real estate law, and constitutional law.

Note: Graduates are not authorized to provide direct legal services to the public. The paralegal studies emphasis provides a broadly-based liberal arts and specialized education for paralegals/legal assistants, who are authorized to perform substantive legal work under the supervision of an attorney. The emphasis does not train lawyers or legal administrators.

Required courses in the major (39 sh)

Note: In addition to fulfilling these requirements, students majoring Political Science must submit a portfolio of their work in Political Science courses and complete a survey on their experiences in the program. Details may be found on the department’s website.

• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
• PSCI 222 - Introduction to Law
• PSCI 223 - Legal Research
• PSCI 310 - Law Office Management
• PSCI 322 - Civil Procedure
• PSCI 426 - Paralegal Internship
• PSCI 427 - Torts and Personal Injury Law

Plus 15 sh from the following, 12 sh must be PS-E

• PSCI 312 - Bankruptcy for Paralegals
Other information for First and Second Majors, Paralegal Studies Emphasis

Courses in the Paralegal Studies Emphasis are designated PS-R=required paralegal specialty course; PS-E=elective paralegal specialty course; N-PS=not a paralegal specialty course as taught in the program. The following classes are PS-R: 222, 223, 310, 322, 426, 427. The following classes are PS-E: 312, 321, 323, 324, 325, 328, 422. All other classes are NPS.

SUGGESTED CURRICULUM OUTLINE (B.A.)*

Freshman

- US Science, 8 sh
- FLang 131
- FLang 132
- CAS 111
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- MATH 1314 - College Algebra
  or
- MATH 1324 - Mathematics for Business Applications
  or
- MATH 179 - Mathematics: Applications and Philosophy
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

Total (33 sh)

Sophomore

- US Humanities, 3 sh
• FLang 231
• FLang 232
• Second Major or Minor, 6 sh
• US PE Activity, 2 sh
• US Soc/Behav Sci, 3 sh
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
• PSCI 222 - Introduction to Law
• PSCI 223 - Legal Research

Total (32 sh)

Junior

• PSci, 9 sh from the above list
• Second Major or Minor, 6 sh
• Electives, 6 sh
• US Vis/Perf Arts, 3 sh
• PSCI 322 - Civil Procedure
• PSCI 310 - Law Office Management

Total (30 sh)

Senior

• PSci, 6 sh from above list
• Second Major or Minor, 6-12 sh
• Electives to make a minimum of 120 Sh
• PSCI 426 - Paralegal Internship
• PSCI 427 - Torts and Personal Injury Law

Total (25 sh)

Total Semester Hours: 120

Notes

*B.S. students substitute Hist 264 or 265 or 304 or 305 or 306, Eco 231 or PSci 335 and 6 sh electives for FLang 131, 132, 231, 232.
Psychology Major B.A./B.S.

Students seeking a bachelor's degree in the following programs must complete: (1) degree requirements for a Bachelor of Arts or Bachelor of Science degree, and (2) University Studies requirements (refer to those sections of this catalog). In addition, courses in the major must be completed as shown below.

Required courses in the major (36 sh)

Core courses (15 sh) to be taken by all Psychology majors.

- PSY 2301 - Introduction to Psychology
- PSY 302 - Psychological Statistics: Descriptive and Inferential
- PSY 305 - Experimental Psychology
- PSY 403 - Development of Modern Psychology
- PSY 214 - Aspects of Psychology

Students must select a track and complete four courses (12 sh) within that track (required courses are indicated with an *asterisk*); plus one course from each of the remaining tracks (9 sh).

1. Clinical Track

- PSY 2315 - Psychology of Adjustment
- PSY 2306 - Psychology of Sexual Behavior
- PSY 310 - Psychology and Sociology of Diverse Populations
- PSY 315 - Physiological Psychology
- PSY 316 - Abnormal Psychology
  *
- PSY 317 - Psychology of Personality
  *
- PSY 319 - Child Growth and Development
- PSY 322 - Understanding Human Development
- PSY 323 - Health Psychology
- PSY 339 - Forensic Psychology
- PSY 443 - Psychology of Death and Dying

2. Developmental/Educational Track

- PSY 2315 - Psychology of Adjustment
- PSY 2306 - Psychology of Sexual Behavior
- PSY 310 - Psychology and Sociology of Diverse Populations
  *
- PSY 319 - Child Growth and Development
  *
- PSY 321 - Psychology of Adolescence
• PSY 322 - Understanding Human Development
• PSY 327 - Cognitive Social Psychology
• PSY 341 - Learning and Motivation

3. Experimental Track

• PSY 315 - Physiological Psychology
• PSY 322 - Understanding Human Development
• PSY 327 - Cognitive Social Psychology
• PSY 341 - Learning and Motivation
• PSY 350 - Cognition Psychology

• PSY 414 - Introduction to Human-Computer Interaction Design

4. Social Track

• PSY 210 - Sport Psychology
• PSY 310 - Psychology and Sociology of Diverse Populations
• PSY 317 - Psychology of Personality
• PSY 322 - Understanding Human Development
• PSY 323 - Health Psychology

• PSY 327 - Cognitive Social Psychology
• PSY 404 - Organizational Psychology
• PSY 409 - Group Processes: The Psychology of Groups

• PSY 443 - Psychology of Death and Dying

Additional Courses

• PSY 397 - Special Topics
• PSY 489 - Independent Study

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

• US Humanities, 3 sh
- US Vis/Perf Art, 3 sh
- Second Major/Minor, 3 sh
- US PE Activity, 2 sh
- PSY 2301 - Introduction to Psychology
- PSY 214 - Aspects of Psychology
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1314 - College Algebra

Total (30 sh)

Sophomore

- US Science, 8 sh
- Psy Spec Trac, 3 sh
- Second Major/Minor, 9 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1311 - US - Studies in Human Communication

Total (29 sh)

Junior

- Psy Spec Track, 9 sh
- Psy Altern Track 1, 3 sh
- Second Major/Minor, 9 sh
- PSY 403 - Development of Modern Psychology
- PSY 302 - Psychological Statistics: Descriptive and Inferential
- PSY 305 - Experimental Psychology

Total (32 sh)

Senior

- Psy Alternative Track 2, 3 sh
- Psy Alternative Track 3, 3 sh
- US Capstone, 3 sh
Second Major/Minor or Electives, 20 sh

Total (29 sh)

Total Semester Hours: 120

Radio-Television B.A./B.S.

The Radio-Television major prepares graduates for careers in television broadcast announcing, writing, directing, management, editing, and production. In addition, students are prepared for audio/video production at advertising agencies, independent production houses, and corporate communication facilities. A graduate should be competent in the ability to announce and speak with confidence for radio and television broadcast; to write, direct, manage, and produce programming for radio, television, and video; and to possess an understanding of the role of broadcasting in today’s U.S. and global cultures.

You are considered a “pre-major” until RTV 115, 151, 215, and 219 are completed with a 2.5 GPA.

Required courses in the major (minimum of 41 sh)

- Minimum of 4 sh Practicum (2 sh radio and 2 sh in TV)
- RTV 109 - Tapes
- RTV 151 - Broadcast Technology
- RTV 1335 - Introduction to Broadcasting
- RTV 209 - KKOM News and Programming
- RTV 215 - Radio-TV Announcing
- RTV 221 - Radio Production
- RTV 309 - KETR-FM Practicum
- RTV 320 - Radio and Television Writing
- RTV 322 - Video Shooting and Editing
- RTV 326 - Radio-Television Commercial Practices
- RTV 332 - Multicamera TV Production
- RTV 409 - Television Practicum
- RTV 420 - Interactive Media
- RTV 440 - News Practices
- RTV 450 - Advanced Television Production

- RTV 451 - Broadcasting Seminar
  or
- RTV 453 - Social Media

Other Requirements

Practicum is required in each semester of attendance at Texas A&M University-Commerce unless waived by the Mass Media, Communication, and Theatre head. A grade of “C” must be earned in all courses required for this major. Twelve semester hours of advanced major courses must be taken at Texas A&M University-Commerce.
Sociology B.A./B.S.

Required Courses in the Major (16 sh)

- SOC 1301 - Introduction to Sociology
- SOC 331 - Introduction to Social Research
- SOC 332 - Methods of Sociological Analysis
- SOC 436 - Sociological Theory
- SOC 485 - Senior Seminar in Sociology

Plus Total 15sh From:

- SOC 1301 - Introduction to Sociology
- SOC 316 - Courtship, Mate Selection, Marriage and Family Patterns
- SOC 317 - Contemporary Issues in Marriage and Family
- SOC 318 - Urban Sociology and Anthropology
- SOC 320 - Deviant Behavior
- SOC 323 - Sociology of Health and Illness
- SOC 333 - Social Psychology
- SOC 335 - Global Social Issues
- SOC 341 - Sociology of Complex Organizations
- SOC 350 - Drugs and Society
- SOC 370 - Minority Groups
- SOC 497 - Special Topics
- CJ 326 - Juvenile Delinquency
- CJ 330 - Crime and Criminology
- CJ 431 - Criminal Law
- CJ 468 - Correctional Systems

Criminology Emphasis

A major in Sociology-Criminology Emphasis is designed for students planning to work in criminal justice but who do not wish to receive a Bachelor of Arts or Science in Criminal Justice (see below). Students selecting this major option must also complete another major or minor.

Required courses in the major (31 sh)

- SOC 1301 - Introduction to Sociology
- SOC 331 - Introduction to Social Research
- SOC 332 - Methods of Sociological Analysis
• SOC 436 - Sociological Theory
• SOC 485 - Senior Seminar in Sociology
• CJ 101 - Introduction to Criminal Justice
• CJ 326 - Juvenile Delinquency
• CJ 330 - Crime and Criminology

Additional Requirements for the Emphasis (6sh)

Student must complete 6sh from:

• SOC 311 - Social Class, Wealth, and Power
• SOC 318 - Urban Sociology and Anthropology
• SOC 320 - Deviant Behavior
  or any advanced CJ class

Global Emphasis

A major in Sociology with Global Emphasis is designed for students interested in or planning to work in a multi-cultural and/or multi-national setting. The Office of International Studies has a broad listing of courses that can be applied to this program.

Required courses in the major (22 sh)

• SOC 1301 - Introduction to Sociology
• SOC 318 - Urban Sociology and Anthropology
• SOC 331 - Introduction to Social Research
• SOC 332 - Methods of Sociological Analysis
• SOC 335 - Global Social Issues
• SOC 436 - Sociological Theory
• SOC 485 - Senior Seminar in Sociology

Additional Requirements for the Emphasis (9sh)

1. 9 semester hours from International Studies or
2. A minimum of 3sh of International Studies and additional advanced Sociology courses beyond those required to total 9 semester hours.

Other Requirements

1. A Grade of "C" or higher must be earned in all Sociology courses required for this major
2. Fifteen Semester hours of Sociology must be taken at Texas A&M University-Commerce
3. Courses transferred in from a Community College may not count for 300-400 level courses

B.A. Foreign Language Requirement
Students Seeking a B.A. Degree must fulfill the foreign language requirement. (Refer to that section of catalog for details)

**Speech Communication B.A./B.S.**

The major in speech communication prepares graduates for careers in positions such as business, teaching, law, management, human resources, public relations, communication, and theology. It is a flexible major that can accommodate a variety of interests and career goals. A graduate in speech communication should possess: The ability to understand and apply the skills necessary for success as a public speaker; the ability to understand and use knowledge and skills in professional and personal environments involving interpersonal, small group, organizational and political communication, and classroom interaction.

**Required courses in the major (30 sh)**

- SPC 1311 - US - Studies in Human Communication
- SPC 1315 - US - Fundamentals of Speech
- SPC 1321 - US - Business and Professional Speaking

- SPC 112 - Voice and Phonetics
- SPC 317 - Interpersonal Communication
- SPC 318 - Group Process and Decision Making
- SPC 408 - Intercultural Communication
- SPC 412 - Theory of Communication
- SPC 414 - Political Communication

- SPC 312 - Persuasive Communication
  or
- SPC 418 - Communication and Social Change

- THE 211 - Oral Interpretation
  or
- THE 311 - Readers Theatre

**Required support courses (6 sh)**

- MGT 305 - Management and Organizational Behavior
- JOUR 1307 - Mass Communication in Society

**Sport and Recreation Management B.A./B.S.**

The graduate should possess the following competencies: (1) knowledge and skills that promote sport and recreation; (2) knowledge of the core concepts for management of sport and recreation; (3) economics of sport and recreation; (4) knowledge of concepts for developing for sport and recreation, and (5) knowledge of methods for administration for sport and recreation.

**Required courses in the major (36 sh)**

- HHPS 100 - Foundations of Sport and Recreation
HHPS 110 - Principles of Leadership
HHPS 200 - Programming in Sport and Recreation
HHPS 210 - Sport Psychology
HHPS 300 - Field Experience in Sport and Recreation
HHPS 310 - Facility Design and Maintenance
HHPS 320 - Legal and Ethical Issues
HHPS 400 - Sport and Recreation Management
HHPS 410 - Sport and Recreation Finance
HHPS 420 - Sport and Recreation Marketing
HHPS 450 - Internship in Sport and Recreation Management

Suggested minor in General Business (18 sh)

- ACCT 221 - Principles of Accounting I
- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- ECO 2301 - Principles of Macro Economics
- MGT 305 - Management and Organizational Behavior
- MKT 306 - Marketing

Note

*Refer to prerequisite.

Theatre B.A./B.S.

The theatre major prepares students for careers in acting, design and technology, production, management and teaching. A graduate is expected to possess the following competencies: the ability to understand and apply the skills necessary for success as an actor or actress; to prepare students, non-students and professionals for theatrical presentations; to direct, produce and manage the overall operations of a theatre; to possess an understanding of the role of theatre in today’s society and to the theatre of other cultures.

Required courses in the major (43-44 sh)

- Practicum or Rehearsal and Performance, 6 sh minimum
- THE 1310 - Introduction to the Theatre

- THE 211 - Oral Interpretation
or
- THE 311 - Readers Theatre
- THE 213 - Fundamentals of Acting
- THE 215 - Technical Theatre
- THE 445 - Projects in Acting
- THE 316 - Lighting for the Theatre
  or
- THE 349 - Theatrical Costuming
  or
- THE 366 - Introduction to Scene Design
- THE 340 - History of the Theatre I
- THE 440 - History of the Theatre II
- THE 415 - Stage Directing
- THE 480 - Lyric Theatre
- THE 489 - Independent Study
  or
  The 490H
  or
- THE 495 - Senior Theatre Project
- SPC 112 - Voice and Phonetics

Other Requirements

Practicum is required in each semester of attendance at Texas A&M University-Commerce unless waived by the division head or the Mass Media, Communication and Theatre head. A grade of “C” or higher must be earned in all courses required for this major. Twelve semester hours of advanced major courses must be taken at Texas A&M University-Commerce.

Broadfield Major (64-65 sh)

Students who wish to specialize in a particular area of theatre may choose either an Acting/Directing Specialization or a Technical Theatre/Design Specialization, along with related outside courses.

Required core courses in the Director/Acting or Technical Theatre/Design Specializations (37 sh)

- Adv. Practicum or Rehearsal and Performance, 3 sh
- THE 211 - Oral Interpretation
- THE 213 - Fundamentals of Acting
- THE 215 - Technical Theatre
- THE 218 - Stage Make-up
- THE 340 - History of the Theatre I
- THE 366 - Introduction to Scene Design
Other Requirements

Practicum is required in each semester of attendance at Texas A&M University-Commerce unless waived by the Mass Media, Communication, and Theatre head. A grade of “C” or higher must be earned in all courses required for this major. Twelve semester hours of advanced major courses must be taken at Texas A&M University-Commerce.

Required courses in the Acting/Directing Specialization (27 sh)

Theatre Courses:

12 sh (Adv) from:

- Practicum and/or Rehearsal Performance, 3 sh
- THE 308 - Playwriting
- THE 311 - Readers Theatre
- THE 315 - Stage Dialects
- THE 440 - History of the Theatre II
- THE 489 - Independent Study

- THE 397 - Special Topics
  or
- THE 497 - Special Topics

Outside Courses:

- Approved in consultation with advisor (6 sh Adv), 12 sh

Required courses in the Technical Theatre/Design Specialization (27-28 sh)

Theatre Courses:

12 sh (Adv) from:
Practicum and/or Rehearsal Performance, 3 sh
THE 316 - Lighting for the Theatre
THE 349 - Theatrical Costuming
THE 480 - Lyric Theatre
THE 489 - Independent Study

THE 397 - Special Topics
or
THE 497 - Special Topics

Outside Courses:

- Approved in consultation with advisor (6 sh Adv), 12 sh

Bachelor of Business Administration

Accounting B.B.A.

Competencies

In addition to those in the common body of knowledge of business, students majoring in accounting will achieve competency in internal control systems, managerial accounting, income tax accounting, financial accounting, and not-for-profit accounting.

Required courses in the major (30 sh)

- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ACCT 311 - Managerial Accounting
- ACCT 321 - Intermediate Accounting I
- ACCT 322 - Intermediate Accounting II
- ACCT 326 - Microcomputer Applications in Accounting
- ACCT 430 - Business Ethics for Accountants
- ACCT 433 - Internal Control Systems
- ACCT 437 - Government and Not-For-Profit Accounting
- ACCT 440 - Income Tax Accounting

Required support courses (6 sh)

- Psy/Soc/Anth Elective, 3 sh.
- MATH 176 - Mathematics for Business Applications II
Other Requirements

- 15 semester hours of accounting must be taken at Texas A&M University-Commerce. A minimum grade of “C” is required in each course in the College of Business & Technology that is completed for graduation.

SUGGESTED CURRICULUM OUTLINE (B.B.A.)

Freshman

- US Science, 8 sh
- US PE Activity, 2 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II
- MIS 128 - Business Computer Systems

Total (31 sh)

Sophomore

- US Vis/Perf Arts
- 3 sh US Humanities
- 3 sh Anth/Psy/Soc, 3 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- SPC 1321 - US - Business and Professional Speaking

Total (30 sh)

Junior

- ACCT 311 - Managerial Accounting
- ACCT 321 - Intermediate Accounting I
• ACCT 322 - Intermediate Accounting II
• ACCT 326 - Microcomputer Applications in Accounting
• ACCT 430 - Business Ethics for Accountants
• MGT 305 - Management and Organizational Behavior
• MGT 307 - Operations Management
• MKT 306 - Marketing
• BA 301 - Legal Environment of Business
• BA 302 - Business and Economic Statistics
• BA 303 - Business Communication

Total (33 sh)

Senior

• ACCT 433 - Internal Control Systems
• ACCT 437 - Government and Not-For-Profit Accounting
• ACCT 440 - Income Tax Accounting
• FIN 304 - Introduction to Business Finance
• ECO 309 - Economic Forecasting
• BA 420 - International Business
• MIS 426 - Management Information Systems
• MGT 308 - Entrepreneurial Strategy
• MGT 439 - Business Strategy

Total (27 sh)

Total Semester Hours: 121

Note:

*Mgt 439 should be taken the last semester of the senior year.

Finance B.B.A.

Finance majors must complete the lower and upper division requirements listed under the College of Business & Technology.

In addition, the following 27 semester hours are required in the major:

• Advanced Fin or Eco electives, 3 sh
• FIN 304 - Introduction to Business Finance
- FIN 400 - Principles of Investments
- FIN 404 - Advanced Financial Management
- FIN 410 - Analysis of Financial Derivatives
- FIN 429 - Financial Markets and Institutions
- ACCT 311 - Managerial Accounting

Plus 3 sh from:

- ACCT 321 - Intermediate Accounting I
- ACCT 322 - Intermediate Accounting II
- ACCT 326 - Microcomputer Applications in Accounting
- ACCT 433 - Internal Control Systems
- ACCT 440 - Income Tax Accounting

**SUGGESTED CURRICULUM OUTLINE (B.B.A.)**

**Freshman**

- US Science, 8 sh
- US PE Activity, 2 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MIS 128 - Business Computer Systems

**Total (31 sh)**

**Sophomore**

- US Humanities Elective, 3 sh
- US Vis/Perf Arts, 3 sh
- Psy or Soc, 3 sh
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1321 - US - Business and Professional Speaking
Total (30 sh)

Junior

- FIN 304 - Introduction to Business Finance
- FIN 312 - Money, Banking, and Financial Markets
- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- MGT 305 - Management and Organizational Behavior
- MGT 307 - Operations Management
- MGT 308 - Entrepreneurial Strategy
- ACCT 311 - Managerial Accounting
- BA 303 - Business Communication
- ECO 309 - Economic Forecasting

Total (30 sh)

Senior

- Fin or Eco (Adv), 6 sh
- FIN 400 - Principles of Investments
- FIN 410 - Analysis of Financial Derivatives
- FIN 429 - Financial Markets and Institutions
- MGT 439 - Business Strategy
- BA 420 - International Business
- MIS 426 - Management Information Systems
- MKT 306 - Marketing

Acct, 3 sh from:

- ACCT 321 - Intermediate Accounting I
- ACCT 322 - Intermediate Accounting II
- ACCT 326 - Microcomputer Applications in Accounting
- ACCT 433 - Internal Control Systems
- ACCT 440 - Income Tax Accounting

Total (30 sh)
Total Semester Hours: 121

Note:

*Mgt 439 should be taken the last semester of the senior year.

General Business B.B.A.

The B.B.A. with a major in general business is intended to provide the student with a broad based business program. The program's curriculum is composed of a broad spectrum of courses offered by the College of Business & Technology's business departments. A major in general business would prepare the student for a wide variety of employment options in business, industry and government. Graduates can assume entry-level management or management trainee positions in marketing, finance, real estate, insurance, retailing, and wholesaling, as well as positions in government or hospital administration. In addition to the common body of knowledge in business competencies, majors in general business will demonstrate competencies in insurance concepts, writing, legal organizations, and human resource management.

In addition to the completion of the University Studies Program and the College of Business & Technology's core business courses (see lower and upper division courses required of all business majors in the College of Business & Technology).

The following courses (18 semester hours) are required of students majoring in General Business:

- Mgt 394
- BA 345 - Information Management for Business Professionals
- BA 357 - Legal Organizations and Business Transactions
- MIS 326 - Information Systems Technology Productivity
- MIS 328 - Project Management and Practice
- BA 385 - Principles of Risk and Insurance

SUGGESTED CURRICULUM OUTLINE (B.B.A.)

Freshman

- US Science, 8 sh
- US PE Activity, 2 sh
- MIS 128 - Business Computer Systems
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II
Total (31 sh)

Sophomore

- Psy/Soc/Anth, 3 sh
- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1321 - US - Business and Professional Speaking

Total (30 sh)

Junior

- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- BA 303 - Business Communication
- MIS 326 - Information Systems Technology Productivity
- ACCT 311 - Managerial Accounting
- MGT 305 - Management and Organizational Behavior
- MGT 307 - Operations Management
- FIN 304 - Introduction to Business Finance
- FIN 312 - Money, Banking, and Financial Markets
- MKT 306 - Marketing

Total (30 sh)

Senior

- BA 345 - Information Management for Business Professionals
- BA 357 - Legal Organizations and Business Transactions
- BA 385 - Principles of Risk and Insurance
- BA 420 - International Business
- MIS 328 - Project Management and Practice
- MIS 426 - Management Information Systems
- MGT 308 - Entrepreneurial Strategy
- MGT 394 - Human Resource Management
- MGT 439 - Business Strategy
- ECO 309 - Economic Forecasting

Total (30 sh)

Total Semester Hours: 121

Note:

*Mgt 439 should be taken the last semester of the senior year.

**Human Resource Management B.B.A.**

The human resource management major prepares students for careers as first-line managers as well as advancement into middle- and upper-level management positions in human resource management. They are specifically qualified for entry-level positions such as management trainees, compensation analysts and recruitment interviewers. This major provides students with backgrounds in policy formulation, decisionmaking, and the organizational activities of managers. In addition to the common body of knowledge in business components, majors in human resource management will demonstrate competencies in supervision, human resource management, compensation, labor management relations, staffing and research, and entrepreneurship.

Human resource management majors should consider joining the Society for Human Resource Management (SHRM) Membership in this professional organization provides students with opportunities to interact with successful managers in the human resource field.

**Required courses in the major (18 sh)**

- MGT 394 - Human Resource Management
- MGT 438 - Compensation Management
- MGT 445 - Retail Management
- MGT 453 - Employee and Labor Relations
- MGT 493 - Staffing and Research
- MKT 367 - Professional Selling and Sales Management
  or
- MGT 348 - Management Dynamics

**Required support courses (6 sh)**

- US Soc/Behav Sci, 3 sh
- MATH 176 - Mathematics for Business Applications II

Other requirements

- 15 semester hours in Management must be taken at A&M-Commerce.

SUGGESTED CURRICULUM OUTLINE (B.B.A.)

Freshman

- US Science, 8 sh
- Us PE Activity, 2 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II
- MIS 128 - Business Computer Systems
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

Total (31 sh)

Sophomore

- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- US Soc/Behav Sci, 3 sh
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1321 - US - Business and Professional Speaking

Total (30 sh)

Junior

- MGT 305 - Management and Organizational Behavior
- MGT 307 - Operations Management
- MGT 308 - Entrepreneurial Strategy
- MGT 394 - Human Resource Management
- MGT 445 - Retail Management
- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- BA 303 - Business Communication
- FIN 304 - Introduction to Business Finance
- MKT 306 - Marketing
- ACCT 311 - Managerial Accounting

Total (33 sh)

Senior

- US Capstone, 3 sh
- MGT 438 - Compensation Management
- MGT 439 - Business Strategy
  *
- MGT 453 - Employee and Labor Relations
- MGT 493 - Staffing and Research
- BA 420 - International Business
- MIS 426 - Management Information Systems
- ECO 309 - Economic Forecasting

- MKT 367 - Professional Selling and Sales Management
  or
- MGT 348 - Management Dynamics

- FIN 312 - Money, Banking, and Financial Markets

Total (30 sh)

Total Semester Hours: 124

Note

*Management 439 is taken during the last semester of the senior year.

Management B.B.A.
The management major prepares students for a challenging career in profit and not-for-profit organizations. The program provides exposure to skills and careers in the growing fields of retailing, sales management, and human resources, while providing for flexibility for support in additional areas. This major provides students with backgrounds in policy formulation, decisionmaking, and the organizational activities of managers. In addition to the common body of knowledge in business components, majors in management will demonstrate competencies in supervision, human resource management, sales, retailing, and entrepreneurship.

Required courses in the major (18 sh)

- Mkt/Mgt, 6 sh
- BA 475
  or
- Mkt/Mgt Adv. Elective, 3 sh
- MGT 394 - Human Resource Management
- MGT 445 - Retail Management
  or
- MKT 386 - Channels of Distribution
- MKT 367 - Professional Selling and Sales Management

Required support courses (6 sh)

- US Soc/Behav Sci, 3 sh
- MATH 176 - Mathematics for Business Applications II

Other requirements

- 15 semester hours in management must be taken at A&M-Commerce.

SUGGESTED CURRICULUM OUTLINE (B.B.A.)

Freshman

- US Science, 8 sh
- US PE Activity, 2 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II
- MIS 128 - Business Computer Systems
- HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865

Total (31 sh)

Sophomore

• US Humanities, 3 sh
• US Vis/Perf Arts, 3 sh
• US Soc/Behav Sci, 3 sh
• ACCT 221 - Principles of Accounting I
• ACCT 222 - Principles of Accounting II
• ECO 2301 - Principles of Macro Economics
• ECO 2302 - Principles of Micro Economics
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
• SPC 1321 - US - Business and Professional Speaking

Total (30 sh)

Junior

• MGT 305 - Management and Organizational Behavior
• MGT 307 - Operations Management
• MGT 308 - Entrepreneurial Strategy
• MGT 394 - Human Resource Management
• BA 301 - Legal Environment of Business
• BA 302 - Business and Economic Statistics
• BA 303 - Business Communication
• ACCT 311 - Managerial Accounting
• FIN 304 - Introduction to Business Finance
• MKT 306 - Marketing

• MGT 445 - Retail Management
  or
• MKT 386 - Channels of Distribution

Total (33 sh)

Senior

• US Capstone, 3 sh
- Mkt/Mgt Electives (Adv), 6 sh
- BA 475
  or
- Mkt/Mgt (Adv), 3 sh
- MGT 439 - Business Strategy
  *
- BA 420 - International Business
- MIS 426 - Management Information Systems
- ECO 309 - Economic Forecasting
- FIN 312 - Money, Banking, and Financial Markets
- MKT 367 - Professional Selling and Sales Management

Total (30 sh)

Total Semester Hours: 124

Note

* Mgt 439 is taken during the last semester of the senior year.

Management Information Systems B.B.A

The Management Information Systems major is a broad based business degree incorporating studies in computer science. Students in this major qualify for positions in the management information and computer industries. The focus of this major includes (1) procedures and methodologies for the planning, developing and obtaining data and (2) for analyzing, designing and implementing management information systems which prepare and disseminate information throughout organizations for decision making purposes. This major emphasizes the use of organizational information as an efficient and effective resource. This approach relies heavily upon the efficient and effective use and application of computers and computer software. Graduates could assume positions as a systems or junior systems analyst, applications programmer, marketing representative, information systems coordinator, and information user liaison representative. In addition to the common body of knowledge in business competencies, majors in management information systems will demonstrate competencies in advanced microcomputer applications, systems analysis, data base management and project software development. This program requires 122 semester hours for completion.

Option I, Information Management

Required courses in the major (18 sh)

- MIS electives, 6 sh
- BA 345 - Information Management for Business Professionals
- MIS 315 - Principles of Information Security
- MIS 415 - Policy and Administration in Information Security
- FIN 404 - Advanced Financial Management

**Required support courses (6 sh)**

- Psy/Soc/Anth electives, 3 sh
- MATH 176 - Mathematics for Business Applications II

**SUGGESTED CURRICULUM OUTLINE (B.B.A.)**

**Freshman**

- US Science, 8 sh
- US PE Activity, 2 sh
- MIS 128 - Business Computer Systems
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II

Total (31 sh)

**Sophomore**

- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- Psy/Soc/Anth, 3 sh
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1321 - US - Business and Professional Speaking

Total (30 sh)

**Junior**
- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- BA 303 - Business Communication
- BA 345 - Information Management for Business Professionals
- FIN 304 - Introduction to Business Finance
- MGT 305 - Management and Organizational Behavior
- MGT 307 - Operations Management
- MIS 315 - Principles of Information Security
- MIS 326 - Information Systems Technology Productivity
- MKT 306 - Marketing

Total (30 sh)

Senior

- MIS Electives, 6 sh
- ACCT 311 - Managerial Accounting
- ECO 309 - Economic Forecasting
- FIN 404 - Advanced Financial Management
- BA 420 - International Business
- MIS 328 - Project Management and Practice
- MIS 415 - Policy and Administration in Information Security
- MGT 308 - Entrepreneurial Strategy
- MGT 439 - Business Strategy

* Mgt 439 Should be taken the last semester of the senior year.

Total (30 sh)

Total Semester Hours: 121

Note:

*Mgt 439 Should be taken the last semester of the senior year.

Option II, Systems Development

Required courses in the major (15 sh)

- MIS electives, 3 sh
- CSCI 131 - Visual Basic Net Programming
- CSCI 359 - Systems Analysis and Design
- CSCI 440 - Applied Software Project Development
- MIS 422 - Web Based System Development

Required support courses (6 sh)

- Psy/Soc/Anth electives, 3 sh
- MATH 176 - Mathematics for Business Applications II

SUGGESTED CURRICULUM OUTLINE (B.B.A.)

Freshman

- US Science, 8 sh
- US PE Activity, 2 sh
- MIS 128 - Business Computer Systems
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II

Total (31 sh)

Sophomore

- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- Psy/Soc/Anth, 3 sh
- CSCI 131 - Visual Basic Net Programming
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1321 - US - Business and Professional Speaking

Total (33 sh)
Junior

- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- BA 303 - Business Communication
- ECO 309 - Economic Forecasting
- FIN 304 - Introduction to Business Finance
- MGT 305 - Management and Organizational Behavior
- MGT 307 - Operations Management
- MIS 326 - Information Systems Technology Productivity
- MKT 306 - Marketing
- CSCI 359 - Systems Analysis and Design

Total (30 sh)

Senior

- MIS Electives, 3 sh
- ACCT 311 - Managerial Accounting
- FIN 404 - Advanced Financial Management
- BA 420 - International Business
- MIS 328 - Project Management and Practice
- MIS 422 - Web Based System Development
- MGT 308 - Entrepreneurial Strategy
- MGT 439 - Business Strategy
  *
- CSCI 440 - Applied Software Project Development

Total (27 sh)

Total Semester Hours: 121

Note:

*Mgt 439 Should be taken the last semester of the senior year.

Marketing B.B.A.

The marketing major prepares graduates for careers in consumer or organizational sales and sales management; product management; marketing research; promotion and media planning; retail/wholesale management; buying or purchasing; and customer service management. These careers are found at all levels of distribution (manufacturing, wholesale, and retail both
domestically and internationally), as well as in not-for-profit organizations and government. In addition to the common body of knowledge in business competencies, majors in marketing will demonstrate competencies in marketing promotion, personal selling and sales management, channels of distribution, research, retailing, consumer behavior, marketing of services, and marketing policy and strategy.

Marketing majors have the opportunity to affiliate with Pi Sigma Epsilon, professional marketing fraternity. This organization is sponsored by Dallas Sales and Marketing Executives. Active participation in the organization gives students the opportunity to interact with successful marketing practitioners.

**Required courses in the major (18 sh)**

- MKT 366 - Marketing Promotion
- MKT 367 - Professional Selling and Sales Management
- MKT 386 - Channels of Distribution
- MKT 436 - Marketing Research
- MKT 445 - Retail Management
- MKT 467 - Global Consumer Behavior

**Required support courses (6 sh)**

- US Soc/Behav Sci, 3 sh
- MATH 176 - Mathematics for Business Applications II

**Other Requirements**

- 15 semester hours in Marketing must be taken at A&M-Commerce

**SUGGESTED CURRICULUM OUTLINE (B.B.A.)**

**Freshman**

- US Science, 8 sh
- US PE Activity, 2 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II
- MIS 128 - Business Computer Systems
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

**Total (31 sh)**
Sophomore

- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- US Soc/Behav Sci, 3 sh
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1321 - US - Business and Professional Speaking

Total (30 sh)

Junior

- MKT 306 - Marketing
- MKT 366 - Marketing Promotion
- MKT 367 - Professional Selling and Sales Management
- MGT 305 - Management and Organizational Behavior
- MGT 307 - Operations Management
- MGT 308 - Entrepreneurial Strategy
- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- BA 303 - Business Communication
- FIN 304 - Introduction to Business Finance
- ACCT 311 - Managerial Accounting

Total (30 sh)

Senior

- MKT 386 - Channels of Distribution
- MKT 436 - Marketing Research
- MKT 445 - Retail Management
- MKT 467 - Global Consumer Behavior
- MGT 439 - Business Strategy
  *
- BA 420 - International Business
- MIS 426 - Management Information Systems
- ECO 309 - Economic Forecasting
FIN 312 - Money, Banking, and Financial Markets

Total (30 sh)

Total Semester Hours: 124

Note:

*Management 439 is taken during the last semester of the senior year.

Bachelor of Fine Arts

Communication Arts B.F.A.

Students seeking a major in Communication Arts will pursue a BFA degree. The BFA degree is a five-year program; the four BFA options are BFA in Art Direction; BFA in Design Communications; BFA in New Media; or BFA in Communication Arts with an emphasis in Copywriting or Illustration. Each of these areas has a common core of Foundation Art/Communication Arts courses and specific classes in the major or emphasis area. All programs require the student to complete University Studies courses. Students in the BFA major are not required to select a minor.

Entry into Communication Arts is by portfolio review. As a prerequisite to entering Communication Arts classes taught at the Universities Center at Dallas (UCD), students need to complete at least 24 hours of art foundation courses as prescribed in the undergraduate catalog and the student will have completed the University Studies requirements of A&M-Commerce. The student must have an overall GPA of at least 2.5 and an art foundations GPA of at least 3.0. The following web site should be consulted for deadlines and specific requirements of portfolio contents. Students having completed University Studies and art foundation requirements, who fail to present work according to the stated guidelines, will not be considered for entry into Communication Arts classes at the UCD. Web site: http://newmedia.tamu-commerce.edu

All majors have an assessment system that students must pass in order to proceed in their major: a basic assessment will be administered after the third year and a concentration assessment will be administered after the fourth year. Students who do not pass their assessments will be required to correct deficiencies before continuing their program. Students will be advised of the most expedient way to correct deficiencies by faculty and may be required to repeat courses to strengthen and further develop their skills areas. All majors must pass their senior exit review prior to graduation. During the fourth and fifth years, all majors will be required to enter their work in various art shows. As with other university programs, students must pass their courses in their major with a minimum grade of “C.”

Texas A&M University-Commerce has established a 2-plus-3 program in Communication Arts with Department of Fine Arts, Brookhaven College, facilitating the evaluation of course credits and ease of transfer for students from that institution. Transfer work for students from other institutions may be accepted for courses that are not directly compatible with the common course numbering system; the faculty reserves the right to delay accepting these courses until reviewing the student’s portfolio. Portfolio reviews for transfer students will generally occur late in the spring semester for students wishing to enter the program during the fall semester and late during the fall semester for students wishing to enter the program during the spring semester.

BFA—Art Direction (125 sh)
University Studies courses (43 sh)

- ART 1303 - History of Art I

Required courses in the major (82 sh)

Foundation courses (32 sh):

- ART 110 - Drawing I
- ART 111 - Two-Dimensional Design and Color Theory
- PHO 111 - Introduction to Digital Media
- ART 112 - Drawing II
- ART 140 - Three-Dimensional Design and Color Theory
- ART 1303 - History of Art I
  or
- ART 213 - Figure Drawing
- ART 309 - Digital Imaging for Communication Art
- PHO 250 - Digital Image Manipulation I
  or
- ART 404 - Contemporary Issues
- ART 405 - History of Modern Art

Art Direction courses (31-32 sh):

- ART 300 - Typography
- ART 310 - Electronic Media
- ART 365 - Design Communications I
- ART 403 - Practicum in Art
- ART 416 - Advanced Electronic Media
- ART 472 - Art Direction
- ART 473 - Advertising Art Concepts and Copywriting I
- ART 474 - Advertising Art Concepts and Copywriting II

Required support/emphasis courses (19-20 sh):

One course from:

- ART 360 - Illustration I
One course from:

- ART 473 - Advertising Art Concepts and Copywriting I
- ART 474 - Advertising Art Concepts and Copywriting II

Plus three courses from:

- ART 311 - Multimedia I
- CSCI 311 - Multimedia I
- ART 312 - Internet Development I
- CSCI 312 - Internet Development I
- ART 313 - Interactive Vector Graphics and Animation
- ART 317 - Three-Dimensional I
- ART 489 - Independent Study
- ART 495 - Internship

BFA—Design Communications (125 sh)

University Studies courses (43 sh)

- ART 1303 - History of Art I

Required courses in the major (82 sh)

Foundation courses (32 sh):

- ART 110 - Drawing I
- ART 111 - Two-Dimensional Design and Color Theory
- PHO 111 - Introduction to Digital Media
- ART 112 - Drawing II
- ART 140 - Three-Dimensional Design and Color Theory

- ART 1303 - History of Art I
  or
- ART 213 - Figure Drawing
- ART 309 - Digital Imaging for Communication Art
• ART 404 - Contemporary Issues
• ART 405 - History of Modern Art

Design Communication courses (31-32 sh):

• ART 300 - Typography
• ART 310 - Electronic Media
• ART 365 - Design Communications I
• ART 403 - Practicum in Art
• ART 416 - Advanced Electronic Media
• ART 466 - Design Communications II
• ART 467 - Design Communications III
• ART 472 - Art Direction

Required support/emphasis courses (19-20 sh):

One course from:

• ART 360 - Illustration I
• ART 460 - Illustration II
• ART 462 - Illustration III

One course from:

• ART 466 - Design Communications II
• ART 467 - Design Communications III

Plus three courses from:

• ART 311 - Multimedia I
• CSCI 311 - Multimedia I
• ART 312 - Internet Development I
• CSCI 312 - Internet Development I
• ART 313 - Interactive Vector Graphics and Animation
• ART 317 - Three-Dimensional I
• ART 489 - Independent Study
• ART 495 - Internship

BFA—New Media (126-127 sh)
University Studies courses (43 sh)

- ART 1303 - History of Art I

Required courses in the major (89-94 sh)

Foundation courses (32 sh):

- ART 110 - Drawing I
- ART 111 - Two-Dimensional Design and Color Theory
- PHO 111 - Introduction to Digital Media

- ART 112 - Drawing II
  or
- ART 213 - Figure Drawing

- ART 140 - Three-Dimensional Design and Color Theory

- ART 1303 - History of Art I
  or
- ART 309 - Digital Imaging for Communication Art
  or
- PHO 250 - Digital Image Manipulation I

- ART 404 - Contemporary Issues
  or
- ART 405 - History of Modern Art

New Media courses (43-44 sh):

- ART 300 - Typography
- ART 310 - Electronic Media
- ART 311 - Multimedia I
- CSCI 311 - Multimedia I
- ART 312 - Internet Development I
- ART 313 - Interactive Vector Graphics and Animation
- ART 317 - Three-Dimensional I
- ART 365 - Design Communications I
- ART 403 - Practicum in Art
- ART 414 - Motion Graphics
- ART 466 - Design Communications II
- ART 472 - Art Direction
Required support/emphasis courses (15-16 sh):

- ART 410 - Three-Dimensional II
- ART 411 - Multimedia II
- CSCI 411 - Multimedia II
- ART 412 - Internet Development II
- ART 417 - Three-Dimensional III
- ART 418 - Three-Dimensional IV
- ART 489 - Independent Study
- ART 495 - Internship

BFA—Communication Arts (must select emphasis) (126 sh)

University Studies courses (43 sh)

- ART 1303 - History of Art I

Required courses in the major (85-95 sh)

Foundation courses (32 sh):

- ART 110 - Drawing I
- ART 111 - Two-Dimensional Design and Color Theory
- PHO 111 - Introduction to Digital Media
- ART 112 - Drawing II
- ART 213 - Figure Drawing
- ART 140 - Three-Dimensional Design and Color Theory
- ART 1303 - History of Art I
  or
- ART 309 - Digital Imaging for Communication Art
  or
- PHO 250 - Digital Image Manipulation I

Communication Arts courses (23-24 sh):

- ART 300 - Typography
- ART 310 - Electronic Media
- ART 365 - Design Communications I
- ART 403 - Practicum in Art
- ART 416 - Advanced Electronic Media
- ART 472 - Art Direction

Required emphasis in Illustration or Copywriting (27-33 sh)

Emphasis in Illustration (27-28 sh):
- ART 316 - Advanced Drawing
- ART 360 - Illustration I
- ART 460 - Illustration II
- ART 462 - Illustration III

Plus 4 sh from:

Courses are repeatable
- ART 360 - Illustration I
- ART 460 - Illustration II
- ART 462 - Illustration III

Plus 4 sh from:

- ART 320 - Airbrush Painting
  or

Plus 4 sh from:

- ART 422 - Painting II
- ART 432 - The Art of the Book
- ART 495 - Internship

Emphasis in Copywriting (30-33 sh):

Plus 4 sh from:

Courses are repeatable
- ART 473 - Advertising Art Concepts and Copywriting I
- ART 474 - Advertising Art Concepts and Copywriting II
Plus 12-15 sh from:

Note: Eng 201 and 203 count as Humanities/University Studies

- RTV 320
- ENG 2326 - Introduction to Literature
- ENG 2331 - Literature of the Western World
- ENG 315 - Advanced Writing: Creative Writing
- ENG 333 - Advanced Writing: Non-Fiction
- ENG 341 - Technical Communication
- JOUR 315 - Editing and Production

Plus 3 sh from:

- ENG 351 - American Novel Before World War I
- ENG 352 - American Novel After World War I
- ENG 425 - Development of the Novel
- ENG 441 - A Survey of American Literature I
- ENG 442 - A Survey of American Literature II
- ENG 471 - Survey of English Literature I
- ENG 472 - Survey of English Literature II

**Studio Art B.F.A.**

Students seeking a major in Studio Arts are required to select an emphasis in one of the following areas: Ceramics, Experimental Studies, Sculpture, or Painting. Each of these areas has a common core of foundation art courses, area concentration courses, and related support courses. All programs require the student to complete University Studies courses. Students in the BFA major are not required to select a minor.

**University Studies courses (43 sh)**

See the University Studies Requirements [here](http://catalog.tamu-commerce.acalog.com/content.php?catoid=12&navoid=415)

**Foundations/Required Support Classes in Art (43 + 12 semester hours)**

- ART 110 - Drawing I
- ART 111 - Two-Dimensional Design and Color Theory
- ART 112 - Drawing II
- ART 140 - Three-Dimensional Design and Color Theory
- ART 141 - Introduction to Practical Woodworking Applications and Woodshop Safety
- ART 1303 - History of Art I
  *Also counts as University Studies—Visual and Performing Arts requirement.
- ART 213 - Figure Drawing
• ART 316 - Advanced Drawing
• ART 340 - Sculpture I: Introduction to Fabric, Video, Performance and Public Art
• ART 380 - Experimental Concepts
• ART 403 - Practicum in Art
• ART 404 - Contemporary Issues
• ART 405 - History of Modern Art
• PHO 111 - Introduction to Digital Media

12 hours from the following:

• ART 216 - Sophomore Studio: Introduction to Communication Design
• ART 227 - Sophomore Studio: Introduction to Painting
• ART 240 - Sophomore Studio: Introduction to Sculpture
• ART 250 - Sophomore Studio: Introduction to Ceramics
• PHO 208 - Basic Photography I

Emphasis Area courses (40 sh)

Ceramics area concentration courses (18 semester hours)

• ART 350 - Ceramics I
• ART 450 - Ceramics II
• ART 451 - Ceramics III

Plus 9 semester hours* from: ART 350 Ceramics II, ART 450 Ceramics III, ART 451 Ceramics IV - Courses are repeatable.

9 semester hours from:

• ART 320 - Airbrush Painting
• ART 321 - Watercolor I

or

• ART 330 - Printmaking
• ART 331 - Screenprinting

or 9 sh from any advanced (300 or 400-level Photography course)

Experimental Studies area concentration courses (24 semester hours)
6 semester hours from:

- ART 340 - Sculpture I: Introduction to Fabric, Video, Performance and Public Art
- ART 341 - Sculpture I B: Introduction to Metals and Mechanical Systems
- ART 440 - Sculpture II: Advanced Studio Problem Solving with an Emphasis on Installation Techniques

6 semester hours from:

- ART 330 - Printmaking
- ART 331 - Screenprinting
- ART 441 - Sculpture II A: Advanced Studio Problem Solving with Solo Exhibitions

6 semester hours from:

- ART 320 - Airbrush Painting
- ART 321 - Watercolor I
- ART 422 - Painting II

6 semester hours from:

- ART 350 - Ceramics I
- ART 450 - Ceramics II
- ART 451 - Ceramics III

Advanced Art or Photography Electives (6 semester hours)

6 semester hours in advanced (300 or 400-level) art or photography courses

Painting area concentration courses (21 semester hours)

- ART 320 - Airbrush Painting
- ART 422 - Painting II

9 semester hours from:

- ART 432 - The Art of the Book
- ART 330 - Printmaking
- ART 331 - Screenprinting
  or
- ART 340 - Sculpture I: Introduction to Fabric, Video, Performance and Public Art
- ART 341 - Sculpture I B: Introduction to Metals and Mechanical Systems
- ART 440 - Sculpture II: Advanced Studio Problem Solving with an Emphasis on Installation Techniques
  or
- ART 350 - Ceramics I
- ART 450 - Ceramics II
- ART 451 - Ceramics III
  or
  ART 330 Printmaking
  ART 331 Screenprinting
  ART 430 Advanced Printmaking
ART 431 Advanced Screenprinting
or
9 sh from any advanced (300 or 400-level Photography course)

Sculpture area concentration courses (18 semester hours)

- ART 340 - Sculpture I: Introduction to Fabric, Video, Performance and Public Art
- ART 341 - Sculpture I B: Introduction to Metals and Mechanical Systems
- ART 440 - Sculpture II: Advanced Studio Problem Solving with an Emphasis on Installation Techniques
  Plus 9 semester hours* from: ART 340 Sculpture I, ART 341 Sculpture I B, ART 440 Sculpture II.
  Courses are repeatable

9 semester hours from:

- ART 422 - Painting II
- ART 320 - Airbrush Painting
- ART 321 - Watercolor I
  or
- ART 330 - Printmaking
- ART 331 - Screenprinting
  or
  9 sh from any advanced (300 or 400-level Photography course)

Photography area concentration courses (12 semester hours)

- PHO 208 - Basic Photography I
- PHO 209 - Basic Photography II
- PHO 359 - Junior Photography Seminar
- PHO 379 - Survey of Photographic History
- PHO 495 - Photography Internship

12 semester hours from advanced (300 or 400-level) Photography courses

9 semester hours from:
- ART 422 - Painting II
- ART 320 - Airbrush Painting
- ART 321 - Watercolor I
  or
- ART 340 - Sculpture I: Introduction to Fabric, Video, Performance and Public Art
- ART 341 - Sculpture I B: Introduction to Metals and Mechanical Systems
- ART 440 - Sculpture II: Advanced Studio Problem Solving with an Emphasis on Installation Techniques
  or
- ART 350 - Ceramics I
- ART 450 - Ceramics II
- ART 451 - Ceramics III
  or
- ART 330 - Printmaking
- ART 331 - Screenprinting
  or
  9 sh from any advanced (300 or 400-level Photography course

Total Semester Hours: 125

Bachelor of Music

Music Performance B.M.

(127 Semester Hours)

University Studies (43 sh)

Core Curriculum for All Music Majors

Music requirements (43 sh)

- MUS 100 - Ensembles
  or
- MUS 114 - Fundamental Theory
- MUS 115 - Theory I
  with CAS 111
Additional Requirements for All Music Majors

All incoming students must audition for acceptance as a music major (BS or BM). At the beginning of the first semester of attendance, music majors take diagnostic exams in theory and are assigned Mus 114 or 115 to be taken concurrently with the Freshmen Success Seminar (CAS 111). In addition, each music major must (1) enroll for a major ensemble each semester until all music degree requirements are met; (2) pass six semesters of recital attendance (Mus 100.001); (3) meet the keyboard competency requirement; (4) pass the barrier examination in applied music study, and (5) present one or more public recital(s).

Keyboard Competency Requirement

Requirements for keyboard skills vary according to the major. Instrumental majors may demonstrate keyboard competency through proficiency examination or by completion of Music 136C. Vocalists must pass two proficiency exams: the first to move from Mus 151 to 351, and the second to complete study at the upper division level (351). All students must demonstrate keyboard competency before conferral of their degrees.

Applied Barrier Exam Requirement

A barrier exam is required of all music majors to achieve advanced standing on their principal applied instrument before registering for upper division applied study. The examination is administered at the end of the fourth semester of study, but may be taken earlier upon the recommendation of the applied teacher. (Regardless, all students must complete the required total number of semester hours in applied music as specified on the various degree plans.) Students who do not satisfactorily pass the initial exam have, at the discretion of the principal applied professor, one additional long semester to complete the exam requirement. Students who do not satisfactorily pass the second attempt at the barrier exam will be dismissed from the A&M-Commerce music program. Upper division applied credit (352) must be completed at A&M-Commerce to be counted toward a music degree.

Recital Performance Requirement
After enrollment in upper division applied study, students must present one or more public recitals. Performance majors must present a junior half (30 min.) recital and a senior full (60 min.) recital; education majors must present a half recital (30 min.) during their junior or senior year. The applied faculty must approve the scope of the recital.

Emphasis in Instrumental

Required courses in the major beyond the Music Core (41 sh)

- Ensembles 100
- Mus 141 Diction
- Mus 142 Diction
- Applied 151
- Mus 318 Counterpoint
- Applied 351
- Applied 352
- Mus 403 Voice Production
- Mus 416 Orchestration
- Electives, 2 sh

Emphasis in Piano Performance

Required courses in the major beyond the Music Core (41 sh)

- Applied 151
- Mus 318 Counterpoint
- Mus 326 Piano Literature
- Mus 331 Piano Pedagogy
- Applied 351
- Applied 352
- Mus 416 Orchestration
- Electives, 6 sh

Emphasis in Voice

Required courses in the major beyond the Music Core (41 sh)

- Ensembles 100
- Ensembles 141
- Ensembles 142
- Applied 151
- Mus 318 Counterpoint
- Applied 351
Bachelor of Professional Accountancy

Professional Accountancy B.P.A.

Competencies

Students majoring in professional accountancy will achieve competencies in the undergraduate common body of knowledge of business and the core competencies in the bachelor of business administration degree with a major in accounting. In addition, they will achieve competencies in auditing, advanced financial accounting, advanced income tax accounting, and special topics of their choice.

Required courses in the major (39 sh)

- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ACCT 311 - Managerial Accounting
- ACCT 321 - Intermediate Accounting I
- ACCT 322 - Intermediate Accounting II
- ACCT 326 - Microcomputer Applications in Accounting
- ACCT 421 - Advanced Accounting
- ACCT 427 - Auditing
- ACCT 430 - Business Ethics for Accountants
- ACCT 433 - Internal Control Systems
- ACCT 437 - Government and Not-For-Profit Accounting
- ACCT 439 - Advanced Income Tax Accounting
- ACCT 440 - Income Tax Accounting

Required support courses (6 sh)

- Psy/Soc/Anth electives, 3 sh.
- MATH 176 - Mathematics for Business Applications II

Other Requirements
15 semester hours of accounting must be taken at Texas A&M University-Commerce. A minimum grade of “C” is required in each course in the College of Business & Technology that is completed for graduation.

Required non-business courses (18 sh)

- Computer science and management information systems courses required for a major or minor;
- Any courses required for a non-business major or minor
- FLang
- SPC 317 - Interpersonal Communication
- SPC 318 - Group Process and Decision Making
- SPC 408 - Intercultural Communication
- COUN 409 - Group Leadership
- ENG 202 - Multi-Ethnic American Literature
- ENG 301 - Modern Grammar
- ENG 315 - Advanced Writing: Creative Writing
- ENG 341 - Technical Communication
- ENG 358 - Language and Society
- ENG 424 - Development of the English Language
- ETEC 224 - Computer Literacy

Plus any 6 sh:

- Other selected courses approved by the Department Head
- GEOG 100 - Global Communities
- HHPK 172 - Systems of the Human Body
- HHPK 211 - First Aid and Safety
- HIST 333 - Modern Europe, 1848-1991
- HIST 409 - The Twentieth-Century United States
- PHIL 2303 - Logic
- PHIL 331 - History of Philosophy I
- PHIL 332 - History of Philosophy II
- PHIL 360 - General Ethics
- PSY 2315 - Psychology of Adjustment
- PSY 310 - Psychology and Sociology of Diverse Populations
- PSY 322 - Understanding Human Development
- PSY 404 - Organizational Psychology
- SOC 310 - Psychology and Sociology of Diverse Populations

SUGGESTED CURRICULUM OUTLINE (B.P.A.)

Freshman

- US Science, 8 sh
- US PE Activity, 2 sh
ENG 1301 - College Reading and Writing
ENG 1302 - Written Argument and Research
HIST 1301 - US History to 1877
HIST 1302 - US History from 1865
MATH 1324 - Mathematics for Business Applications
MATH 176 - Mathematics for Business Applications II
MIS 128 - Business Computer Systems

Total (31 sh)

Sophomore

US Humanities, 3 sh
US Vis/Perf Arts, 3 sh
Anth/Psy/Soc, 3 sh
PSCI 2301 - Principles of United States and Texas Government
PSCI 2302 - United States and Texas Government: Institutions and Policies
ECO 2301 - Principles of Macro Economics
ECO 2302 - Principles of Micro Economics
ACCT 221 - Principles of Accounting I
ACCT 222 - Principles of Accounting II
SPC 1321 - US - Business and Professional Speaking

Total (30 sh)

Junior

ACCT 311 - Managerial Accounting
ACCT 321 - Intermediate Accounting I
ACCT 322 - Intermediate Accounting II
ACCT 326 - Microcomputer Applications in Accounting
BA 301 - Legal Environment of Business
BA 302 - Business and Economic Statistics
BA 303 - Business Communication
MGT 305 - Management and Organizational Behavior
MKT 307 - Operations Management
MKT 306 - Marketing

Total (30 sh)

Senior
• ACCT 430 - Business Ethics for Accountants
• ACCT 433 - Internal Control Systems
• ACCT 437 - Government and Not-For-Profit Accounting
• ACCT 440 - Income Tax Accounting
• ECO 309 - Economic Forecasting
• FIN 304 - Introduction to Business Finance
• FIN 312 - Money, Banking, and Financial Markets
• BA 420 - International Business
• MGT 308 - Entrepreneurial Strategy
• MIS 426 - Management Information Systems

Total (30 sh)

Fifth Year

• Non-Business Electives, 18 sh
• ACCT 421 - Advanced Accounting
• ACCT 427 - Auditing
• ACCT 439 - Advanced Income Tax Accounting
• MGT 439 - Business Strategy

Total (30 sh)

Total Semester Hours: 151

Bachelor of Professional Accountancy/Master of Business Administration

Professional Accountancy B.P.A. and MBA with a minor in Accounting

Requires concurrent admission in the MBA program prior to the second semester of the senior year.

Competencies

Students majoring in professional accounting will achieve competencies in the undergraduate common body of knowledge of business and the core competencies in the bachelor of business administration degree with a major in accounting. In addition,
they will achieve competencies in auditing, advanced financial accounting, advanced income tax accounting, and the competencies outlined in the Master of Business Administration degree.

**Required courses in the major (39 semester hours)**

- Acct 521 (See the Graduate Catalog)
- Acct 527 (See the Graduate Catalog)
- Acct 540 (See the Graduate Catalog)
- Acct 541 (See the Graduate Catalog)
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ACCT 311 - Managerial Accounting
- ACCT 321 - Intermediate Accounting I
- ACCT 322 - Intermediate Accounting II
- ACCT 326 - Microcomputer Applications in Accounting
- ACCT 433 - Internal Control Systems
- ACCT 437 - Government and Not-For-Profit Accounting
- ACCT 440 - Income Tax Accounting

**Required support courses (6 semester hours)**

- Psy/Soc/Anth electives, 3 sh
- MATH 176 - Mathematics for Business Applications II

**Other requirements**

- Fifteen semester hours of accounting must be taken at Texas A&M University-Commerce. A minimum grade of “C” is required in each course in the College of Business & Technology that is completed for graduation. All requirements for the Master of Business Administration degree must be met. Upon completion of the requirements for the Bachelor of ProfessionalAccountancy and the Master of Business Administration degree, both degrees will be awarded simultaneously.

**SUGGESTED CURRICULUM OUTLINE (B.P.A. & M.B.A. with a minor in accounting)**

**Freshman**

- US Science, 8 sh
- US PE Activity, 2 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II
- MIS 128 - Business Computer Systems

Total (31 sh)

**Sophomore**

- US Humanities, 3 s
- US Vis/Perf Arts, 3 s
- Anth/Psy/Soc, 3 sh
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- SPC 1321 - US - Business and Professional Speaking

Total (30 sh)

**Junior**

- ACCT 311 - Managerial Accounting
- ACCT 321 - Intermediate Accounting I
- ACCT 322 - Intermediate Accounting II
- ACCT 326 - Microcomputer Applications in Accounting
- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- BA 303 - Business Communication
- MGT 305 - Management and Organizational Behavior
- MGT 307 - Operations Management
- MGT 308 - Entrepreneurial Strategy
- FIN 304 - Introduction to Business Finance

Total (33 sh)

**Senior**

- Acct 540 (See the Graduate Catalog)
- BA 578 (See the Graduate Catalog)
- ACCT 430 - Business Ethics for Accountants
- ACCT 433 - Internal Control Systems
- ACCT 437 - Government and Not-For-Profit Accounting
- ACCT 440 - Income Tax Accounting
- ECO 309 - Economic Forecasting
- FIN 312 - Money, Banking, and Financial Markets
- BA 420 - International Business
- MKT 306 - Marketing

Total (30 sh)

Fifth Year

- Acct 521
- Acct 527
- Acct 541
- BA 595

- Eco 562
  or
  Eco 576

- Fin 504
- Mkt 521
- Mgt 527*
- Mgt 585

Total (27 sh)

Total Semester Hours: 151

Notes:

Admittance to graduate school prior to the senior year is recommended. Admittance to graduate school by the second semester of the senior year is required.

*Mgt 527 should be taken in the last semester of the fifth year.

**Acct 430 may be taken if 530 is not needed for graduate credit.

Bachelor of Science
AgriBusiness B.S.

The department also offers a major in AgriBusiness. This program of study is designed to prepare students for careers in various businesses or government agencies associated with the production, processing, and distribution of agricultural products. This major integrates competencies in the principles of business management including financial management, marketing, planning, analysis and organization with the technical knowledge of agricultural sciences. This major prepares graduates in careers in agribusiness, agricultural finance, county extension agents, ranch management, banks, ag loan office, federal agencies, and ag consultancy businesses. The major also provides the graduate with the prerequisites for the master of business administration (MBA) degree.

Required courses in the major (54 sh)

- AG 100 - Introduction to Agriculture
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- AEC 219 - Agricultural Economics
- AEC 314 - Farm Management
- AEC 316 - Agricultural Marketing
- AEC 370 - Microcomputing in Agriculture
  or
- MIS 128 - Business Computer Systems
- AEC 435 - Agricultural Policy
- AMC 315 - Agricultural Systems Technology Management
  or
- AMC 424 - Agricultural Safety
- ANS 118 - Introduction to Animal Science
- ANS 307 - Animal Feeding
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- FIN 304 - Introduction to Business Finance
- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- PLS 115 - Introduction to Plant Science
  or
- PLS 1415 - Introduction to Horticulture
- PLS 309 - Soil Science

Required support courses (20 sh)

- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- MGT 305 - Management and Organizational Behavior
- MKT 306 - Marketing
- MGT 307 - Operations Management
• CHEM 1411 - General and Quantitative Chemistry I
  and
• CHEM 1412 - General and Quantitative Chemistry II
  or
• CHEM 1405 - Survey of General Chemistry
  and
• CHEM 1407 - Survey of Organic and Biochemistry

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

• US Vis/Perf Arts, 3 sh
• US PE Activity, 1 sh
• AG 100 - Introduction to Agriculture
• ANS 118 - Introduction to Animal Science
• ECO 2301 - Principles of Macro Economics
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• HIST 1301 - US History to 1877
• MATH 1324 - Mathematics for Business Applications
• MATH 176 - Mathematics for Business Applications II

• PLS 115 - Introduction to Plant Science
  or
• PLS 1415 - Introduction to Horticulture

Total (31 sh)

Sophomore

• Electives, 6 sh
• AEC 219 - Agricultural Economics
• AEC 316 - Agricultural Marketing
• ACCT 221 - Principles of Accounting I
• ECO 2302 - Principles of Micro Economics
• HIST 1302 - US History from 1865
• SPC 1321 - US - Business and Professional Speaking

• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II

• CHEM 1405 - Survey of General Chemistry
- CHEM 1407 - Survey of Organic and Biochemistry

Total (32 sh)

Junior

- US PE Activity, 1 sh
- AG 392 - Applied Ethics: U S and World Agriculture
- ACCT 222 - Principles of Accounting II
- AEC 314 - Farm Management

- AEC 370 - Microcomputing in Agriculture
  or
- MIS 128 - Business Computer Systems

- AMC 315 - Agricultural Systems Technology Management
  or
- AMC 424 - Agricultural Safety

- ANS 307 - Animal Feeding
- BA 301 - Legal Environment of Business
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- PLS 309 - Soil Science

Total (32 sh)

Senior

- Elective, 6 sh (Adv)
- AG 300 - Agricultural Communications Seminar
- AG 400 - Seminar
- AEC 435 - Agricultural Policy
- ENG 2326 - Introduction to Literature
- FIN 304 - Introduction to Business Finance
- BA 302 - Business and Economic Statistics
- MGT 305 - Management and Organizational Behavior
- MKT 307 - Operations Management
- MKT 306 - Marketing

Total (26 sh)
Total Semester Hours: 121

Agricultural Science and Technology B.S. - Emphasis in Ornamental Horticulture

The B.S. degree with a major in agricultural science and technology is available with teacher certification or industry emphasis.

Required courses in the Emphasis (62 sh)

- PLS electives, 6 sh (adv)
- Ag Sci elective, 12 sh (6 adv)
- AEC 219 - Agricultural Economics
- AG 100 - Introduction to Agriculture
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- AG 405 - Internship in Agri-Industries
- PLS 1415 - Introduction to Horticulture
- PLS 230 - Ornamental Plant Identification
- PLS 253 - Economic Entomology
- PLS 305 - Landscape Design
- PLS 306 - Plant Propagation
- PLS 309 - Soil Science
- PLS 320 - Soil Fertility and Plant Nutrition
- PLS 430 - Greenhouse Management
- PLS 450 - Landscape Management

Required support courses

- ANS 310 - Genetics of Livestock Improvement
- BSC 412 - Quantitative Biology
- CHEM 1405 - Survey of General Chemistry
  or
- CHEM 1411 - General and Quantitative Chemistry I
- MGT 305 - Management and Organizational Behavior

SUGGESTED CURRICULUM OUTLINE (B.S.)
Freshman

- US Soc/Behav Sci, 3 sh
- US Visual/Performing Arts (3 sh)
- US Communication (3 sh)
- Ag Elective (3 sh)
- AG 100 - Introduction to Agriculture
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- MATH 1314 - College Algebra
- CSCI 126 - Microcomputer Applications
- PLS 1415 - Introduction to Horticulture

Total (29 sh)

Sophomore

- US PE Activity, (2 sh)
- Ag Elec (3 sh)
- Electives (6 sh)
- CHEM 1405 - Survey of General Chemistry
  or
- CHEM 1407 - Survey of Organic and Biochemistry
  or
- CHEM 1411 - General and Quantitative Chemistry I
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- AEC 219 - Agricultural Economics
- PLS 230 - Ornamental Plant Identification

Total (31 sh)

Junior

- Ag Elec (3 Adv sh)
- ANS 310 - Genetics of Livestock Improvement
- MGT 305 - Management and Organizational Behavior
- PLS 253 - Economic Entomology
- PLS 305 - Landscape Design
- PLS 309 - Soil Science
- PLS 430 - Greenhouse Management
- PLS 450 - Landscape Management
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (31 sh)

Senior

- Ag Elec (Adv sh)
- PLS Elec (6 Adv sh)
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- AG 405 - Internship in Agri-Industries
- BSC 412 - Quantitative Biology
- PLS 306 - Plant Propagation
- PLS 320 - Soil Fertility and Plant Nutrition

Total (29 sh)

Total Semester Hours: 120

Agricultural Science and Technology B.S. - Industry Emphasis

The Bachelor of Science Degree in Agricultural Science and Technology with an Industry Emphasis is available to community college transfer students who have earned an Associate of Applied Science degree in a specialized agricultural technology. Credit for courses in the specialized agricultural technology will be awarded only from departmentally approved AAS programs with articulation agreements on file with the Department of Agricultural Sciences.

Required Courses in the major (54-56 sh, 24 adv)

Comm college courses in specialized agricultural tech (30-32 sh) *

Adv US course in the major

- AG 300 - Agricultural Communications Seminar
- AG 335 - Wildlife Management I
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- AEC 314 - Farm Management
- AEC 370 - Microcomputing in Agriculture
- AGED 371 - Agricultural and Youth Leadership
- AMC 315 - Agricultural Systems Technology Management
- AMC 423 - Natural Resources Management
- PLS 309 - Soil Science

Required support courses (8 sh)

- CHEM 1405 - Survey of General Chemistry
  or
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
  or
- CHEM 1407 - Survey of Organic and Biochemistry
to be taken at A&M-Commerce

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- 30-32 semester hours specialized courses in agricultural tech (horticulture, equine, agribusiness, etc)

Total (30-32 sh)

Sophomore

- Specialized courses in agricultural tech and/or support courses AAS degree, 16 sh
- ENG 1301 - College Reading and Writing
- MATH 1314 - College Algebra
- PSCI 2301 - Principles of United States and Texas Government
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
Total (31 sh)

Junior**

- US Vis/Perf Arts, 3 sh
- US Soc/Behav Sci, 3 sh
- ENG 1302 - Written Argument and Research
- ENG 2326 - Introduction to Literature
- JOUR 1307 - Mass Communication in Society
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- CHEM 1412 - General and Quantitative Chemistry II
  or
- CHEM 1407 - Survey of Organic and Biochemistry
- AG 300 - Agricultural Communications Seminar
- AMC 315 - Agricultural Systems Technology Management
- PLS 309 - Soil Science

Total (33 sh)

Senior**

- Electives, 9 sh (Adv)
- US PE Activity, 2 sh
- AG 335 - Wildlife Management I
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- AGED 371 - Agricultural and Youth Leadership
- AEC 314 - Farm Management
- AEC 370 - Microcomputing in Agriculture
- AMC 423 - Natural Resources Management

Total (27 sh)

Total Semester hours: 122 - 124
Notes:

No more than 64 semester hours can be transferred from a community college.

*Community college programs in specialized agricultural technologies must have approved articulation agreements with the Department of Agricultural Sciences at Texas A&M University-Commerce.

**Courses to be taken at Texas A&M University-Commerce unless the specific equivalent course was taken as part of the AAS degree; if this occurs, a departmental advisor will recommend a course substitute.

Agricultural Science and Technology B.S. - Teacher Certification Option

The B.S. degree with a major in agricultural science and technology is available with teacher certification or industry emphasis. A student can select an emphasis in teaching, or industry. The purpose of this degree is to prepare graduates for careers as teachers at the high school level, as well as areas of leadership within the agricultural industry and related governmental agencies. A graduate with this major should possess competencies in technical and production agriculture, methods and techniques of teaching, planning courses and programs for classroom instruction, and organizing and conducting community and on-farm agricultural instruction and demonstration programs.

Required courses in the major (48 sh)

- AEC 219 - Agricultural Economics
- AG 100 - Introduction to Agriculture
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- AGED 371 - Agricultural and Youth Leadership
- AMC 315 - Agricultural Systems Technology Management
- ANS 118 - Introduction to Animal Science
- ANS 307 - Animal Feeding
- ANS 317 - Livestock Management Techniques
- PLS 115 - Introduction to Plant Science
  or
- PLS 1415 - Introduction to Horticulture
- PLS 309 - Soil Science
- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- SED 300 - The Teaching Profession
- AGED 404 - Reading in Agricultural and Natural Sciences
- AGED 465 - Student Teaching in Agricultural Science and Technology
- AGED 470 - Methods of Teaching Agricultural Science and Technology
- AGED 471 - The Program of Instruction in Agricultural Science and Technology
Plus AMc electives 6 sh from:

- AMC 423 - Natural Resources Management
- AMC 424 - Agricultural Safety
- AMC 425 - Agricultural Structures and Material Handling Systems
- AMC 426 - Agricultural Power and Energy Systems Management
- AMC 428 - Laboratory Management in Agricultural Mechanization
- AMC 489 - Independent Study
- AMC 497 - Special Topics

Plus PLS elective 3 sh from:

- PLS 230 - Ornamental Plant Identification
- PLS 253 - Economic Entomology
- PLS 305 - Landscape Design
- PLS 306 - Plant Propagation
- PLS 320 - Soil Fertility and Plant Nutrition
- PLS 323 - Field Crops
- PLS 326 - Forage and Pasture Crops
- PLS 328 - Introduction to Range Management
- PLS 355 - Interior Plantscaping
- PLS 381 - Crop Physiology
- PLS 420 - Crop Production Practicum
- PLS 430 - Greenhouse Management
- PLS 450 - Landscape Management
- PLS 455 - Turfgrass Management
- PLS 489 - Independent Study
- PLS 497 - Special Topics

Plus Agricultural Science electives 6 sh from:

- any course with Ag, AEc, AnS, AMc EqSc, or PLS prefix

Required support courses (10 sh)

- IT 111 - Computer Aided Design (CAD)
  or
- AEC 370 - Microcomputing in Agriculture
- PSY 300 - Learning Processes and Development
• CHEM 1405 - Survey of General Chemistry
  or
• CHEM 1411 - General and Quantitative Chemistry I

Required certification courses (21 sh)

• ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
• RDG 380 - Comprehension and Vocabulary in Middle and High Schools
• SED 300 - The Teaching Profession
• AGED 404 - Reading in Agricultural and Natural Sciences
• AGED 465 - Student Teaching in Agricultural Science and Technology
• AGED 470 - Methods of Teaching Agricultural Science and Technology
• AGED 471 - The Program of Instruction in Agricultural Science and Technology

Required Reading Component for Prospective Teachers (3 sh)

• RDG 380 - Comprehension and Vocabulary in Middle and High Schools

SUGGESTED CURRICULUM OUTLINE (B.S)

Freshman

• US Soc/Behav Sci, 3sh
• US Visual/Performing Arts (3 sh)
• US PE Activity, 1 sh
• AG 100 - Introduction to Agriculture
• ANS 118 - Introduction to Animal Science
• PLS 115 - Introduction to Plant Science
  or
• PLS 1415 - Introduction to Horticulture
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• MATH 1314 - College Algebra
  or
• MATH 1324 - Mathematics for Business Applications
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865
• SPC 1321 - US - Business and Professional Speaking
Total (30 sh)

Sophomore

- US PE Activity, (3 sh)
- US Humanities, (3 sh)
- AMC 315 - Agricultural Systems Technology Management
- AEC 219 - Agricultural Economics
- CHEM 1405 - Survey of General Chemistry or
- CHEM 1411 - General and Quantitative Chemistry I
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (31 sh)

Junior

- AMc Elec (6 sh)
- PLS Elec (3 sh)
- AnS Elec (3 sh)
- PLS 309 - Soil Science
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- ANS 317 - Livestock Management Techniques
- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- PSY 300 - Learning Processes and Development
- AGED 371 - Agricultural and Youth Leadership
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools

Total (32 sh)

Senior

- Ag Elec (6 sh)
- AG 400 - Seminar
- AGED 404 - Reading in Agricultural and Natural Sciences
- AGED 465 - Student Teaching in Agricultural Science and Technology
• AGED 470 - Methods of Teaching Agricultural Science and Technology
• AGED 471 - The Program of Instruction in Agricultural Science and Technology
• SED 300 - The Teaching Profession

Total (28 sh)

Total Semester Hours: 121

Agricultural Science B.S. - Broadfield

In agricultural science, a student may select the broadfield major or select an emphasis in agricultural economics or plant and soil sciences. Depending upon the option selected, these majors prepare graduates for careers in positions such as agricultural civil service occupations, technical and sales positions with agbusinesses, agricultural finance, landscape operations, county extension agents, ranch management, agronomic or horticultural production management, food manufacturing and preservation, and quality control. A graduate with a major in agricultural science should possess competencies in basic economics and management, plant and animal nutrition, pest control, production and utilization of plant and animal products, marketing and food sciences.

Required courses in the major (48 sh)

• Agricultural Sciences electives, 21 sh
• AG 100 - Introduction to Agriculture
• AG 300 - Agricultural Communications Seminar
• AG 392 - Applied Ethics: U S and World Agriculture
• AG 400 - Seminar
• PLS 115 - Introduction to Plant Science  
or
• PLS 1415 - Introduction to Horticulture
• PLS 309 - Soil Science  
• ANS 118 - Introduction to Animal Science
• ANS 317 - Livestock Management Techniques
• AEC 219 - Agricultural Economics
• AMC 315 - Agricultural Systems Technology Management
• FDSC 210 - Principles of Food Science

Required support courses (27 sh)

• CSCI 126 - Microcomputer Applications  
or
• AEC 370 - Microcomputing in Agriculture
- BSC 1411 - Botany
- BSC 1413 - Zoology
- CHEM 1411 - General and Quantitative Chemistry I  
  or
- CHEM 1405 - Survey of General Chemistry
- CHEM 1412 - General and Quantitative Chemistry II  
  or
- CHEM 1407 - Survey of Organic and Biochemistry

Plus 8 sh from:

- BSC 254 - General Microbiology
- BSC 303 - Cell Biology
- PLS 253 - Economic Entomology

SUGGEST CURRICULUM OUTLINE (B.S.), Broadfield

Freshman

- US PE Activity, 1 sh
- AG 100 - Introduction to Agriculture
- PLS 115 - Introduction to Plant Science  
  or
- PLS 1415 - Introduction to Horticulture
- ANS 118 - Introduction to Animal Science
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- MATH 1314 - College Algebra  
  or
- MATH 1324 - Mathematics for Business Applications
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- CHEM 1411 - General and Quantitative Chemistry I  
  or
- CHEM 1405 - Survey of General Chemistry
- CHEM 1412 - General and Quantitative Chemistry II  
  or
- CHEM 1407 - Survey of Organic and Biochemistry

Total (33 sh)
Sophomore

- Ag Electives, 3 sh
- US Soc/Behav Sci, 3 sh
- US PE Activity, 1 sh
- AEC 219 - Agricultural Economics
- AMC 315 - Agricultural Systems Technology Management
- ENG 2326 - Introduction to Literature
- CSCI 126 - Microcomputer Applications
  or
- AEC 370 - Microcomputing in Agriculture
- BSC 1411 - Botany
- BSC 1413 - Zoology
- SPC 1321 - US - Business and Professional Speaking
- FDSC 210 - Principles of Food Science

Total (30 sh)

Junior

- US Vis/Perf Arts, 3sh
- Ag Sci Electives, 9 sh (3 Adv)
- AG 392 - Applied Ethics: U S and World Agriculture
- ANS 317 - Livestock Management Techniques
- PLS 309 - Soil Science
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Plus 4 sh from:

- BSC 254 - General Microbiology
- BSC 303 - Cell Biology
- PLS 253 - Economic Entomology

Total (32 sh)
Senior

- Ag Sci Electives, 9 sh (Adv)
- Electives, 12 sh (9 Adv)
- AG 300 - Agricultural Communications Seminar
- AG 400 - Seminar

Total (27 sh)

Plus 4 sh from:

- PLS 253 - Economic Entomology
- BSC 254 - General Microbiology
- BSC 303 - Cell Biology

Total Semester Hours: 122

Agricultural Science B.S., Emphasis in Agricultural Economics

In agricultural science, a student may select the broadfield major or select an emphasis in agricultural economics or plant and soil sciences. Depending upon the option selected, these majors prepare graduates for careers in positions such as agricultural civil service occupations, technical and sales positions with agbusinesses, agricultural finance, landscape operations, county extension agents, ranch management, agronomic or horticultural production management, food manufacturing and preservation, and quality control. A graduate with a major in agricultural science should possess competencies in basic economics and management, plant and animal nutrition, pest control, production and utilization of plant and animal products, marketing and food sciences.

Required courses in the emphasis (31 sh)

- AEc electives, 6 sh
- AEC 314 - Farm Management
- AEC 316 - Agricultural Marketing
- AEC 340 - Agricultural Finance
- AEC 360 - Agricultural Law
- AEC 435 - Agricultural Policy
- AMC 315 - Agricultural Systems Technology Management
- AMC 424 - Agricultural Safety
- ANS 307 - Animal Feeding
- PLS 309 - Soil Science
Required courses in the core (17 sh)

- AG 100 - Introduction to Agriculture
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- ANS 118 - Introduction to Animal Science
- AEC 219 - Agricultural Economics
- PLS 115 - Introduction to Plant Science
- PLS 1415 - Introduction to Horticulture

Required support courses (23 sh)*

*These courses may be counted towards a minor.

- ACCT 221 - Principles of Accounting I
- ECO 2302 - Principles of Micro Economics
- ECO 332 - Intermediate Microeconomics
- MATH 176 - Mathematics for Business Applications II
- MATH 453 - Essentials of Statistics
  or
- BA 302 - Business and Economic Statistics

SUGGESTED CURRICULUM OUTLINE (B.S), Emphasis in Agricultural Economics

Freshman

- US Soc/Behav Sci, 3 sh
- US PE Activity, 1 sh
- AG 100 - Introduction to Agriculture
- ANS 118 - Introduction to Animal Science
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1314 - College Algebra
  or
- MATH 1324 - Mathematics for Business Applications
  and
- MATH 176 - Mathematics for Business Applications II
- ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• AEC 219 - Agricultural Economics

Total (30 sh)

Sophomore

• Ag Electives, 3 sh
• US PE Activity, 1 sh
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• ACCT 221 - Principles of Accounting I
• PLS 115 - Introduction to Plant Science
• PSCI 2301 - Principles of United States and Texas Government
• ENG 2326 - Introduction to Literature
• SPC 1321 - US - Business and Professional Speaking
• ECO 2302 - Principles of Micro Economics

Total (31 sh)

Junior

• US Vis/Perf Arts, 3 sh
• Electives for Minor, 3 sh
• AG 392 - Applied Ethics: U S and World Agriculture
• AEC 314 - Farm Management
• AEC 316 - Agricultural Marketing
• AEC 360 - Agricultural Law
• AMC 315 - Agricultural Systems Technology Management
• AMC 424 - Agricultural Safety
• ANS 307 - Animal Feeding
• PLS 309 - Soil Science
• PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (31 sh)

Senior
• AEc Electives, 3 sh
• Electives, 7 sh
• Electives for Minor, 9 sh
• AG 300 - Agricultural Communications Seminar
• AG 400 - Seminar
• AEC 340 - Agricultural Finance
• AEC 435 - Agricultural Policy
• MATH 453 - Essentials of Statistics
  or
• BA 302 - Business and Economic Statistics

Total (30 sh)

Total Semester Hours: 122-123

Agricultural Science B.S., Emphasis in Plant and Soil Science

In agricultural science, a student may select the broadfield major or select an emphasis in agricultural economics or plant and soil sciences. Depending upon the option selected, these majors prepare graduates for careers in positions such as agricultural civil service occupations, technical and sales positions with agbusinesses, agricultural finance, landscape operations, county extension agents, ranch management, agronomic or horticultural production management, food manufacturing and preservation, and quality control. A graduate with a major in agricultural science should possess competencies in basic economics and management, plant and animal nutrition, pest control, production and utilization of plant and animal products, marketing and food sciences.

Required courses in the emphasis (25 sh)

• PLS Electives, 15 sh
• PLS 309 - Soil Science
• PLS 320 - Soil Fertility and Plant Nutrition
• PLS 381 - Crop Physiology

Required courses in the core (17 sh)

• AG 100 - Introduction to Agriculture
• AG 300 - Agricultural Communications Seminar
• AG 392 - Applied Ethics: U S and World Agriculture
• AG 400 - Seminar
• ANS 118 - Introduction to Animal Science
• AEC 219 - Agricultural Economics
• PLS 115 - Introduction to Plant Science
  or
• PLS 1415 - Introduction to Horticulture

Required support courses (32 sh)*

*These courses may be counted towards a minor.

• ANS 307 - Animal Feeding
• BSC 1411 - Botany
• BSC 1413 - Zoology
• PLS 253 - Economic Entomology
  or
• BSC 254 - General Microbiology
• SPC 1321 - US - Business and Professional Speaking
• BSC 412 - Quantitative Biology
  or
• BA 302 - Business and Economic Statistics
  or
• MATH 453 - Essentials of Statistics
• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1407 - Survey of Organic and Biochemistry
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II

SUGGESTED CURRICULUM OUTLINE (B.S), Emphasis in Plant and Soil Science

Freshman

US PE Activity, 1 sh

• AG 100 - Introduction to Agriculture
• ANS 118 - Introduction to Animal Science
• PLS 115 - Introduction to Plant Science
  or
• PLS 1415 - Introduction to Horticulture
• MATH 1314 - College Algebra
  or
• MATH 1324 - Mathematics for Business Applications
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• CHEM 1411 - General and Quantitative Chemistry I
• SPC 1321 - US - Business and Professional Speaking

Total (29 sh)

Sophomore

US Humanities, 3 sh

• AEC 219 - Agricultural Economics
• BSC 1411 - Botany
• BSC 1413 - Zoology
• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• PLS 309 - Soil Science
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (33 sh)

Junior

• 6 sh PIS electives
• US Soc/Behav Sci, 3 sh
• US Vis/Perf Arts, 3 sh
• AG 392 - Applied Ethics: U S and World Agriculture
• PLS 320 - Soil Fertility and Plant Nutrition
• CHEM 1407 - Survey of Organic and Biochemistry
• PLS 253 - Economic Entomology
  or
• BSC 254 - General Microbiology
• ANS 307 - Animal Feeding

Total (29 sh)
Senior

- PIS electives, 9 sh (Adv)
- Electives, 10 sh (6 sh Adv)
- AG 300 - Agricultural Communications Seminar
- AG 400 - Seminar
- PLS 381 - Crop Physiology
- BSC 412 - Quantitative Biology
  or
- BA 302 - Business and Economic Statistics
  or
- MATH 453 - Essentials of Statistics

Total (29 sh)

Total Semester Hours: 120-124

Notes

*Students intending to pursue a graduate degree should select Chem 2114 and 2124 as their organic chemistry sequence.

Those students transferring from a community college whose agriculture courses have been oriented toward horticulture or who plan to do graduate work in horticulture should consult with the Agricultural Sciences Department head.

Animal Science B.S.

The department also offers the B.S. degree with a major in animal science. The purpose of this degree is to prepare students for careers in positions such as ranch management, county extension agents, technical and sales representatives with agricultural businesses such as feed and pharmaceutical companies, agricultural civil service, regulatory agencies, technical consultants, and laboratory technicians. A graduate with this major should possess competencies in animal reproductive physiology and genetics, animal nutrition, animal health management, production, utilization, and marketing of animal products, and business management.

Required courses in the major (34 sh)

- AG 100 - Introduction to Agriculture
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: US and World Agriculture
- AG 400 - Seminar
- ANS 308 - Animal Nutrition
- ANS 118 - Introduction to Animal Science
- ANS 310 - Genetics of Livestock Improvement
• ANS 311 - Reproductive Physiology of Domestic Animals
• ANS 317 - Livestock Management Techniques

• ANS 319 - Anatomy and Physiology of Domestic Animals
  or
• ANS 419 - Diseases and Parasites of Livestock

• ANS 408 - Animal Feeds and Feeding

Plus 6 sh AnS Mgt electives from the following:

• ANS 312 - Artificial Breeding of Domestic Animals
• ANS 313 - Dairying
• ANS 411 - Sheep and Goat Management
• ANS 412 - Beef Cattle Management
• ANS 413 - Swine Management
• ANS 415 - Companion Animal Management
  or
• EQSC 441 - Stable Management

Required support courses (40 sh)*

*These courses may be counted toward a minor.

• BSC 1413 - Zoology
• BSC 254 - General Microbiology
  or
• PLS 253 - Economic Entomology
• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1407 - Survey of Organic and Biochemistry
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• BSC 412 - Quantitative Biology
  or
• BA 302 - Business and Economic Statistics
• PLS 115 - Introduction to Plant Science
• PLS 1415 - Introduction to Horticulture
• PLS 309 - Soil Science
• PLS 326 - Forage and Pasture Crops
• AEC 219 - Agricultural Economics
SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- US Vis/Perf Arts, 3 sh
- US PE Activity, 2 sh
- AG 100 - Introduction to Agriculture
- ANS 118 - Introduction to Animal Science

- PLS 115 - Introduction to Plant Science
  or
- PLS 1415 - Introduction to Horticulture

- BSC 1411 - Botany
  or
- BSC 1413 - Zoology

- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research

- MATH 1314 - College Algebra
  or
- MATH 1324 - Mathematics for Business Applications

Total (30 sh)

Sophomore

- US Humanities, 3 sh
- AEC 219 - Agricultural Economics
- ANS 317 - Livestock Management Techniques
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- CHEM 101 - General Chemistry Tutorial I
- CHEM 102 - General Chemistry Tutorial II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (31 sh)
Junior

- Electives for Minor, 6 sh
- ANS 308 - Animal Nutrition
- ANS 310 - Genetics of Livestock Improvement
- ANS 311 - Reproductive Physiology of Domestic Animals
- PLS 309 - Soil Science
- PLS 326 - Forage and Pasture Crops
- CHEM 1407 - Survey of Organic and Biochemistry

- BSC 254 - General Microbiology
  or
- PLS 253 - Economic Entomology

Total (30 sh)

Senior

- US Soc/Behav Sci, 3 sh
- AnS Mgt Electives, 6 sh
- Electives for Minor, 6 sh**
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar

- ANS 319 - Anatomy and Physiology of Domestic Animals
  or
- ANS 419 - Diseases and Parasites of Livestock

- ANS 408 - Animal Feeds and Feeding
- MATH 453 - Essentials of Statistics
  or
- BSC 412 - Quantitative Biology
  or
- BA 302 - Business and Economic Statistics

Total (29 sh)

Total Semester Hours: 120

Notes
Students intending to pursue a graduate degree or enter veterinary school should select Chem 2114 and 2124 as their organic sequence.

Electives for minor will support an interdisciplinary minor in which the Biology, Chemistry and Math courses can be used. If a minor in a specific discipline is desired, additional courses may be required.

To be selected from Ag 335; AnS 312, 313, 411, 412, 413, 415 or EqSc 441.

Pre-Veterinary Medicine Option

Required courses in the major (28 sh)

- AG 100 - Introduction to Agriculture
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- ANS 118 - Introduction to Animal Science
- ANS 308 - Animal Nutrition
- ANS 310 - Genetics of Livestock Improvement
- ANS 311 - Reproductive Physiology of Domestic Animals
- ANS 317 - Livestock Management Techniques
- ANS 319 - Anatomy and Physiology of Domestic Animals
  or
- ANS 419 - Diseases and Parasites of Livestock
- ANS 408 - Animal Feeds and Feeding

Required support courses (47 sh)

- BSC 1411 - Botany
- BSC 1413 - Zoology
- CHEM 101 - General Chemistry Tutorial I
- CHEM 102 - General Chemistry Tutorial II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- CHEM 201 - Organic Chemistry Tutorial I
- CHEM 202 - Organic Chemistry Tutorial II
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- MATH 453 - Essentials of Statistics
  or
- BSC 412 - Quantitative Biology
  or
- BA 302 - Business and Economic Statistics
- PLS 115 - Introduction to Plant Science
  or
- PLS 1415 - Introduction to Horticulture
- AEC 219 - Agricultural Economics
- SPC 1321 - US - Business and Professional Speaking
- ENG 2326 - Introduction to Literature
  or
- ENG 202 - Multi-Ethnic American Literature
  or
- ENG 2331 - Literature of the Western World
  and
- ENG 341 - Technical Communication

Interdisciplinary minor (23 sh)
- BSC 303 - Cell Biology
- BSC 306 - Applied Microbiology
- BSC 422 - Comparative Vertebrate Anatomy
- AG 497 - Special Topics
  when offered as Biochemistry and Nutritional Biochemistry
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman
- US Vis/Perf Arts, 3 sh
- US PE Activity, 2 sh
- AG 100 - Introduction to Agriculture
- ANS 118 - Introduction to Animal Science
- PLS 115 - Introduction to Plant Science
  or
- PLS 1415 - Introduction to Horticulture
- BSC 1411 - Botany
- BSC 1413 - Zoology
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- MATH 2413 - Calculus I
  or
- MATH 176 - Mathematics for Business Applications II
• SPC 1321 - US - Business and Professional Speaking

Total (34 sh)

Sophomore

• AEC 219 - Agricultural Economics
• ANS 317 - Livestock Management Techniques
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865
• ENG 2326 - Introduction to Literature
  or
• ENG 202 - Multi-Ethnic American Literature
  or
• ENG 2331 - Literature of the Western World
• ENG 341 - Technical Communication
• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (34 sh)

Junior

• ANS 308 - Animal Nutrition
• ANS 310 - Genetics of Livestock Improvement
• ANS 311 - Reproductive Physiology of Domestic Animals
• BSC 303 - Cell Biology
• BSC 306 - Applied Microbiology
• BSC 422 - Comparative Vertebrate Anatomy
• CHEM 201 - Organic Chemistry Tutorial I
• CHEM 202 - Organic Chemistry Tutorial II
• CHEM 211 - Organic Chemistry I
• CHEM 212 - Organic Chemistry II

Total (31 sh)
Senior

- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar

- ANS 319 - Anatomy and Physiology of Domestic Animals
  
or
- ANS 419 - Diseases and Parasites of Livestock

- ANS 408 - Animal Feeds and Feeding
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics
- AG 497 - Special Topics
  
when offered as Biochemistry and Nutritional Biochemistry

- MATH 453 - Essentials of Statistics
  
or
- BSC 412 - Quantitative Biology
  
or
- BA 302 - Business and Economic Statistics

Total (31 sh)

Total Semester Hours: 129-130

Athletic Training Major BS

The Department of Health and Human Performance has a long history of providing educational opportunities for students in the field of Athletic Training. In 2001, the university recognized Athletic Training as a major field of study. The Athletic Training Education Program (ATEP) is responsible for the admission criteria, advisement and administration of the Athletic Training major. The program goals are:

1. To provide quality educational opportunities for students in the knowledge, skills and values necessary to become a superior Allied Health Care provider in the field of Athletic Training
2. To prepare students for success on the Board of Certification (BOC) and State of Texas Athletic Training Licensure Examinations
3. To provide educational opportunities to a wide variety of students and to teach superior ethics and responsibility when providing health care to the physically active.

The ATEP is accredited through the Commission on Accreditation of Athletic Training Education (CAATE). Students wishing to pursue BOC certification must graduate from a CAATE Accredited program. Contact the program director for more information.

Program Description
All students admitted to the Athletic Training Education Program must be Athletic Training majors. Upon completion of the curriculum, students will graduate with a Bachelor of Science degree. The Athletic Training major is a non-teaching major consisting of a four year program of academic and clinical course requirements. Graduation requirements for a major in Athletic Training include:

1. 47 semester hours of University Studies courses  
2. 38 semester hours of Athletic Training major courses  
3. 18 semester hours of Health minor courses  
4. 25 semester hours of supporting field courses for a total of 128 semester hours  

Course and lab fees are applied to several of the Athletic Training major courses and are listed in each semester schedule of courses.

Athletic Training majors are required to participate in supervised Clinical Education observation and experiences as part of the clinical education program, dependant on their professional development level. The clinical program consists of four professional development levels: Pre-Professional, Professional Level I, Professional Level II and Professional Level III. The clinical plan requires students to progress through eight laboratory and six Clinical Experience in Athletic Training courses related to the professional development levels. The academic and clinical course objectives of the program are developed from the educational competencies and proficiencies of athletic training as prescribed by the Education Council of the National Athletic Trainers’ Association. Eight laboratory courses provide formal clinical instruction and evaluation of the required skills necessary for entry-level athletic trainers. Students must demonstrate a level of skill proficiency/mastery to progress to the next professional level. All skill-based proficiencies are evaluated by an Approved Clinical Instructor. Basic knowledge and skills will be taught and evaluated in the pre-professional level before entering the supervised Clinical Education experiences and Clinical Experience in Athletic Training courses.

Athletic Training Students (ATS) will typically complete an average of 20-25 hours of Clinical Experience each week in order to meet the Clinical Experience requirements set forth by the ATEP. Because some weeks an ATS may complete less than 20 hours, students are allowed to complete more than 20 hours so they can successfully meet the Clinical Experience requirements of 250-300 hours each semester (i.e. one week an ATS may complete 25 Clinical Experience hours and the following week only 15 hours). ATS should not complete more than 30 Clinical Experience hours each week and will be closely monitored so that they do not exceed this amount. ATS should not exceed more than 400 Clinical Experience hours over the course of a semester.

Transportation will be required for travel to off campus facilities (Affiliated Clinical Education Sites) at the student’s expense. The Clinical Experience in Athletic Training courses require students to be involved with the care of athletes under direct supervision by an Approved Clinical Instructor or Clinical Instructor. The student must participate in the practice and game preparation for a variety of men’s and women’s sports. Students will apply their integrated knowledge and skills in the supervised clinical environment. The clinical experience in AT courses begin during the second year in the program and are related to the four required areas of lower extremity, upper extremity, equipment intensive and general medical.

**Admission Requirement**

Competitive Admission is required for the Athletic Training Education Program. Athletic Training is an Allied Health Care profession that requires full mental, physical, emotional and intellectual capacities to provide care for athletes and the physically active. Each student will be required to understand and meet the specific demands of an athletic trainer and sign the Technical Standards Form outlining these requirements. There are two levels of program admission, (1) Initial Acceptance and (2) Full Admittance. Due to the requirements and standards of the Clinical Education program, only a finite number of students may be admitted in the program each year. Being initially accepted into the program will not guarantee full admittance into the professional levels.

**Initial Acceptance Criteria**

The annual deadlines for applying for initial acceptance to the Athletic Training Education Program are posted on the ATEP web page and program flyers each year. Generally, applications for the ATEP are submitted in the spring and summer for initial acceptance during the fall with initial acceptance or denial provided prior to the fall semester. Application requires:
1. An official ATEP application form including the essay portion
2. Verification of current adult CPR/FA/AED certification
3. Verification of current blood borne pathogen training
4. Verification of hepatitis B vaccination (HBV) or signed HBV declination form
5. Verification of current physical exam performed by a MD/DO/NP/PA which includes review of medical history, immunization records, and Technical Standards
6. Official high school transcript(s) for incoming freshman -or- college transcript(s) for transfer students
7. Three original letters of recommendation
8. Signed ATEP Technical Standards form
9. Interview with program director, review of selection requirements
10. Declare major as Athletic Training and obtain academic advising

**Full Admittance Criteria—Clinical Education Program**

The annual deadlines to apply for full acceptance to the Athletic Training Education Program are posted on the ATEP web page and program flyers each year. Competitive admission requirements for full admittance include:

1. Complete all necessary steps to meet the initial acceptance requirements
2. Must have completed a minimum of 24 semester hours of college coursework
3. Have an overall GPA of 2.5 on 4.0 scale
4. Documented completion of a minimum of 175 hours of supervised Clinical Experience Observations:
   - Must complete 75-100 hours of supervised and documented Clinical Experience Observations for HHPA 140; Must complete 100-150 hours of supervised and documented Clinical Experience Observations for HHPA 214.
   - Hours may be transferred and accepted from another institution of higher education if they are documented by a certified/licensed athletic trainer. All hours completed outside the university must be verified by the program director
5. Have earned a “C” or better in each of the following courses:
   - HHPA 140 - Introduction to Athletic Training
   - HHPA 213 - Prevention and Care of Athletic Injuries
   - HHPA 214 - Preventative Techniques in Athletic Training
   - Students may transfer these courses—see “Transferring Athletic Training Courses” below.
6. Have taken at least one human anatomy/physiology course (HHPH 172, BSC 251)
7. Meet ATEP Technical Standards requirements
8. Become recertified in adult CPE/FA/AED and complete a blood borne pathogen training course annually
9. Selection Committee interview (15-30 minutes)

The Selection Committee is chaired by the program director and composed of the members of the Athletic Training Education Committee which includes one current athletic training student member. Formal acceptance into the ATEP is required for participation in the clinical education program. Approximately 10-15 students per year will be fully admitted. This number may vary dependent upon the availability and number of Approved Clinical Instructors, Clinical Instructors, Clinical Education sites, and the current number of students enrolled in ATEP.

**Competitive Admission Ranking Scale**

1. Overall Grade Point Average (GPA), 60%
2. Pre-professional athletic training and science courses GPA, 10%
3. Interview with selection committee, 10%
4. Athletic Training instructor(s) recommendation, 10%
5. Completed observation hour forms, 10%
Meeting the minimum requirement for “Competitive Admission” does not guarantee selection for full admittance into the program. Each student denied admittance will be notified in writing within two weeks of the culmination of the selection process at the end of spring semester (Month of May). Annual deadline and notification dates are posted on ATEP webpage.

Selection Committee Grievance Policy

If a student is denied full admittance to the ATEP, they have the right to meet with the program director. The program director will discuss the Selection Committee's findings with the student. The student has the right to re-apply for full admittance the next year. If the student feels their application has been handled inappropriately, they have the right to appeal to the department head of Health and Human Performance. The department head has the right to overrule or accept the Selection Committee's finding. If the student is not satisfied, they have the right to appeal to the dean of the College of Education and Human Services. A written letter of explanation is to be sent to the dean within two weeks of the department head's ruling. The dean will make the final decision regarding the student's request. If the student has a grievance other than the selection process, consult the ATEP Grievance Policy for details which is located in the ATEP Manual or the University's Grievances Policy in the Student Guide Book. Additional assistance regarding students' non-academic complaints is provided from the Dean of Students Office.

Transferring Athletic Training Courses

A transferring student must meet all admission requirements for the University and ATEP. The University may accept transferred academic courses related to the athletic training major but the courses may not meet the criteria as an acceptable course by the ATEP. HHPA 140 - Introduction to Athletic Training, HHPA 213 - Prevention and Care of Athletic Injuries, and HHPA 214 - Preventative Techniques are the only courses that may be transferred and only if the course(s) meet the requirements listed below. For the ATEP to accept transferred athletic training courses, each course must meet the same criteria for CAATE accreditation as required for the ATEP major courses:

1. Course must be assigned a specific Course Title and Prefix.
2. Course must be assigned an academic load.
3. Course must have a specific course syllabus listing course objectives, grading scale and semester course outline.
4. The Athletic Training courses must be taught by a NATABOC certified athletic trainer in good standing. All clinical observation/experience must also be supervised by a certified athletic trainer and adequately documented.
5. If the transfer student does have acceptable documentation of the proficiencies, evaluated by a BOC certified athletic trainer, the course instructor/ACI with program director’s approval, will only accept the evaluated proficiencies that applied directly to ATEP assigned proficiencies in the HHPA 214 course only. Demonstration of competency will be required. Re-evaluation of the 214 proficiencies will take place in the HHPA 249 Clinical Experience in AT. It must be understood that the transfer student must enroll in all other AT major’s courses and the proficiencies must be re-demonstrated, ACI evaluated and recorded on the ATEP’s clinical forms.

On an individual basis, the program director will evaluate each student’s transcript during the application process. Students will be informed of the above criteria and the possibility of having to repeat courses that do not meet the above standards.

Progression/Retention Criteria

1. Must be in “Good Standing” academically with the University;
2. Must maintain a cumulative GPA of 2.5 in athletic training major required courses;
3. Must earn a “C” or better in major courses;
4. Must demonstrate a satisfactory level in the required clinical proficiencies for that level of the clinical education program. All clinical proficiencies assigned to the specific clinical course MUST be completed before a course grade is given. A grade of “I”—Incomplete will be recorded if student did not attempt to complete the assigned proficiencies. The student will not be allowed to enroll in the next clinical course until the Incomplete is removed.
5. Must meet the minimal Clinical Experience hour requirements for the Clinical Experience in Athletic Training courses (150-200 hours for HHPA 249 & 279; 250-300 hours for HHPA 349, 379, 449, & 479).
6. Must be enrolled in 12 semester hours or be considered a full time student;
7. Maintain yearly CPR/FA/AED certification and blood borne pathogen training.
Probation and Suspension

Students with deficiencies in progression or retention requirements will be placed on probation for a minimum of one semester. The program director will outline a plan to complete the deficiencies. The athletic training curriculum has a course rotation every other semester. If deficiencies are not met by one year from time of probation, the student will be suspended from the program. A student on probationary status is not allowed to enroll in the clinical courses applicable to the student’s professional development level. They will be required to attend and complete all major’s supporting field courses until probationary status is rescinded. The ATEP Manual provides details for probationary status requirements. Probation will extend the completion date of the clinical program.

Students suspended from the ATEP will only be allowed to retake the courses in which they have earned a grade less than a “C.” Students have the right to appeal suspension via the Academic Appeal Process and Grievance Policy. See ATEP Manual for details.

Basic Financial Obligation, Scholarship and Work Study within the ATEP

Approximate ATEP costs are listed below. See program director for details.

1. The University charges course and lab fees for most of the Athletic Training major, supporting, and minor courses. Typically the assessed fees range from $5.00 to $15.00 per course. These fees are utilized in the purchase of educational supplies/equipment. Additional information regarding these course and lab fees can be obtained by contacting the instructor/professor and/or department associated with these courses/labs.

2. Clothing not supplied by the University: $200.00 **Note** ATS typically receive many items clothing each year.

3. Yearly CPR/FA/AED training: $5.00 - $10.00 **Note** These fees reflect the price of certification if obtained through the ATEP; Students obtaining certification from an outside organization (i.e. American Red Cross -or- American Heart Association) will often result in higher fees.

4. Yearly blood borne pathogen training: $35.00 **Note** These fees reflect the cost of a student obtaining certification from an outside organization (i.e. American Red Cross -or- American Heart Association); The ATEP will conduct blood borne pathogen training each year for incoming and returning students.

5. Private physical examination: $25.00 - $75.00 **Note** Students can obtain a physical exam on campus at the Student Health Center free of charge while enrolled as a student at the University.

6. Private Hepatitis B Vaccination: $150.00 **Note** Students can obtain their Hepatitis B Vaccinations on campus at the Student Health Center free of charge while enrolled as a student at the University.

7. Private liability insurance: $40.00 **Note** The ATEP provides a general/blanket liability insurance policy for all Athletic Training Students while enrolled in classes.

Transportation to off-campus Approved Clinical Education Sites, doctor offices, hospitals, outreach observations and educational seminars related to the ATEP are the responsibility of students. Access to transportation is/may be required to complete the Clinical Experience in Athletic Training courses. Semester transportation costs are estimated at approximately $400.00 per semester.

Each year the Athletic Foundation awards a scholarship in the name of Delmer Brown to a deserving Athletic Training Student. All current, fully admitted junior, senior or graduate athletic training students in good standing with the program and university are eligible. The award is based on overall GPA, service to the Athletic Department and personal character. Specific selection criterion can be found in the ATEP manual or by contacting the director of sports medicine. The award is given yearly at the end of the fall semester and presented at the Athletic Awards Banquet.

All work-study opportunities are related to financial aid eligibility and handled through the Financial Aid Office on campus. See the director of sports medicine for work related employment opportunities which are serviced-based and not related to the Athletic Training Education Program. Currently the athletic department offers no athletic training scholarships beyond the Delmer Brown Scholarship.

Athletic Training Degree Graduation Requirement
To complete the degree requirements, students must:

1. Meet all university requirements for graduation
2. Earn a “C” or better in each athletic training major course
3. Have an overall major GPA of 2.5 or better
4. Have an overall GPA of 2.0 or better
5. Meet all clinical program requirements, 100% completion of clinical proficiencies.

Required courses in the major (38 sh)

- HHPA 140 - Introduction to Athletic Training
- HHPA 213 - Prevention and Care of Athletic Injuries
- HHPA 214 - Preventive Techniques in Athletic Training
- HHPA 239 - Therapeutic Modalities
- HHPA 240 - Therapeutic Modalities Lab
- HHPA 249 - Clinical Experience in Athletic Training I
- HHPA 259 - Athletic Injury Assessment I
- HHPA 260 - Athletic Injury Assessment I Lab
- HHPA 279 - Clinical Experience in Athletic Training II
- HHPA 339 - Therapeutic Rehabilitation
- HHPA 340 - Therapeutic Rehabilitation Lab
- HHPA 349 - Clinical Experience in Athletic Training III
- HHPA 369 - Athletic Injury Assessment II
- HHPA 370 - Athletic Injury Assessment II Lab
- HHPA 379 - Clinical Experience in Athletic Training IV
- HHPA 441 - Athletic Training Administration
- HHPA 442 - Health Care Administration Lab
- HHPA 449 - Clinical Experience in Athletic Training V
- HHPA 479 - Clinical Experience in Athletic Training VI
- HHPA 480 - Clinical Integration in Athletic Training
- HHPA 459 - Assessment of General Medical Conditions
- HHPA 460 - General Medical Assessment Lab

Required courses for Health Minor (18 sh)

- HHPH 130 - Introduction to Personal and Community Health
- HHPH 172 - Systems of the Human Body
- HHPH 265 - Substance Use and Abuse
- HHPH 331 - Nutrition
- HHPH 362 - Human Diseases

Required support courses (25 sh)

- BSC 2401 - Human Anatomy and Physiology I
- BSC 2402 - Human Anatomy and Physiology II
Suggested University Studies courses

- IS 1415 - Integrated Science I
- BSC 1409 - Human Biology: Structure and Function
- JOUR 1307 - Mass Communication in Society

- PSY 2315 - Psychology of Adjustment
  or
- PSY 2301 - Introduction to Psychology

- SOC 350 - Drugs and Society
- FRA 105 - Weight Training

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- CED 111
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research

- MATH 1314 - College Algebra
  or
- MATH 1324 - Mathematics for Business Applications
  or
- MATH 179 - Mathematics: Applications and Philosophy

- IS 1415 - Integrated Science I
  or
- PHYS 1401 - College Physics

- BSC 1409 - Human Biology: Structure and Function
- HHPH 172 - Systems of the Human Body
- HHPK 211 - First Aid and Safety
- HHPA 140 - Introduction to Athletic Training
- HHPA 213 - Prevention and Care of Athletic Injuries
- HHPA 214 - Preventive Techniques in Athletic Training
- HIST 1301 - US History to 1877
- FRA 105 - Weight Training
Total (33 sh)

Sophomore

- Elective (CSCI 126 or ETEC 224)
- FRA (Physical Activity Choice), 1 sh
- BSC 2401 - Human Anatomy and Physiology I
- BSC 2402 - Human Anatomy and Physiology II
- BSC 256 - Medical Terminology
- HIST 1302 - US History from 1865
- HHPK 154 - Concepts of Physical Activity
- HHPA 249 - Clinical Experience in Athletic Training I
- HHPA 259 - Athletic Injury Assessment I
- HHPA 260 - Athletic Injury Assessment I Lab
- HHPA 279 - Clinical Experience in Athletic Training II
- HHPA 369 - Athletic Injury Assessment II
- HHPA 370 - Athletic Injury Assessment II Lab

Total (34 sh)

Junior

- HHPH 130 - Introduction to Personal and Community Health
- HHPH 265 - Substance Use and Abuse
- HHPH 331 - Nutrition
- HHPH 362 - Human Diseases
- HHPK 335 - Kinesiology and Biomechanics
- SPC 1311 - US - Studies in Human Communication
- HHPA 239 - Therapeutic Modalities
- HHPA 240 - Therapeutic Modalities Lab
- HHPA 339 - Therapeutic Rehabilitation
- HHPA 340 - Therapeutic Rehabilitation Lab
- HHPA 349 - Clinical Experience in Athletic Training III
- HHPA 379 - Clinical Experience in Athletic Training IV
- HHPA 441 - Athletic Training Administration
- HHPA 442 - Health Care Administration Lab
  (summer I)

Total (33 sh)

Senior
• US Vis/Perf Arts, 3 sh
• FRA 1 (Physical Activity Choice)
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
• HHPK 417 - Measurement and Evaluation
• HHPK 450 - Exercise Physiology
• HHPA 449 - Clinical Experience in Athletic Training V
• HHPA 459 - Assessment of General Medical Conditions
• HHPA 460 - General Medical Assessment Lab
• HHPA 479 - Clinical Experience in Athletic Training VI
• HHPA 480 - Clinical Integration in Athletic Training
• JOUR 1307 - Mass Communication in Society

Total (28 sh)

Total Semester Hours: 128

Biological Sciences B.S.

Required courses in the major (51 sh)

Advanced BSc courses, 18 sh

• BSC 1406 - Introductory Biology I
• BSC 1407 - Introductory Biology II
• BSC 111 - Introduction to Biology
• BSC 301 - Biological Literature
• BSC 303 - Cell Biology
• BSC 304 - Genetics
• BSC 305 - General Physiology
• BSC 306 - Applied Microbiology
• BSC 307 - Ecology
• BSC 401 - Senior Seminar

Required support courses (37 sh)

• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• CHEM 201 - Organic Chemistry Tutorial I
• CHEM 202 - Organic Chemistry Tutorial II
• CHEM 211 - Organic Chemistry I
• CHEM 212 - Organic Chemistry II
• PHYS 1401 - College Physics
• PHYS 1402 - College Physics

Plus one course from:

• MATH 453 - Essentials of Statistics
• PSY 302 - Psychological Statistics: Descriptive and Inferential
• BSC 412 - Quantitative Biology

Plus 6 sh from:

• MATH 1314 - College Algebra
• MATH 142 - Pre-Calculus
• MATH 2413 - Calculus I
• MATH 192 - Calculus II

SUGGESTED CURRICULUM OUTLINE (B.S)

Freshman

• BSC 1411 - Botany
• BSC 1413 - Zoology
• BSC 111 - Introduction to Biology
• MATH 1314 - College Algebra or
• MATH 2413 - Calculus I
• MATH 142 - Pre-Calculus or
• MATH 192 - Calculus II
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
Total (31 sh)

Sophomore

- BSC 301 - Biological Literature
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- CHEM 201 - Organic Chemistry Tutorial I
- CHEM 202 - Organic Chemistry Tutorial II
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics
- HIST 1301 - US History to 1877

Total (32 sh)

Junior

- BSC 305 - General Physiology
- BSC 306 - Applied Microbiology
- BSC 307 - Ecology
- PSCI 2301 - Principles of United States and Texas Government or
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- HIST 1302 - US History from 1865
- US Vis/Perf Arts, 3 sh
- US Humanities, 3 sh
- Advanced Class Biological Sciences, 3 sh

Total (30 sh)

Senior

- BSC 401 - Senior Seminar
- BSC 412 - Quantitative Biology or
- MATH 453 - Essentials of Statistics or
- PSY 302 - Psychological Statistics: Descriptive and Inferential
- SPC 1311 - US - Studies in Human Communication
- US Soc/Behav Sci, 3 sh
- US PE Activity, 2 sh
- Advanced Classes Biological Sciences, 15 sh

Total (32 sh)

Total Semester Hours: 120

**Biological Sciences B.S. - Secondary Certification (Grades 8-12) Life Sciences**

(135 semester hours)

**Required courses in the major (57)**

- Biological sciences, 12 sh (Adv)
- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- BSC 111 - Introduction to Biology
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- BSC 305 - General Physiology
- BSC 306 - Applied Microbiology
- BSC 307 - Ecology
- BSC 461 - Biology for Middle School Teachers
- CHEM 101 - General Chemistry Tutorial I
- CHEM 102 - General Chemistry Tutorial II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- ENVS 1301 - Introduction to Environmental Science

**Required support courses (12 sh)**
- IS 451 - Historical Development of Great Ideas in Science
- PSY 300 - Learning Processes and Development
- SPED 346 - Introduction to Exceptional Children
- CSCI 126 - Microcomputer Applications
  or
- ETEC 224 - Computer Literacy

**Teacher education courses (24 sh)**

- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- SED 300 - The Teaching Profession
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 405 - Residency in Secondary Teaching
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools

**University studies courses (43 sh)**

**Broadfield Science (Chemistry) B.S.**

(137 semester hours)

**Major in Chemistry**

**Required courses in the major (58 sh)**

- ESci (Adv), 3 sh
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- CHEM 340 - Quantitative and Instrumental Analysis
- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- BSC 307 - Ecology
- ASTR 1412 - Introduction to Stars and the Universe

- PHYS 1401 - College Physics
  or
- PHYS 2425 - University Physics I

- PHYS 2426 - University Physics II
- PHYS 321 - Atomic Physics
- PHYS 333 - Wave Motion, Acoustics, and Optics

**Teacher education courses (24 sh)**

- RDG 415 - Learning and Teaching with Expository Text
- RDG 370 - Reading and Literacy II
- SED 300 - The Teaching Profession
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 405 - Residency in Secondary Teaching

**Recommended support courses (9 sh)**

- MATH 192 - Calculus II
- PSY 300 - Learning Processes and Development
- SPED 346 - Introduction to Exceptional Children
  or
- SPED 475 - Collaboration, Accommodation and Modification

**University studies courses to fulfill requirements**

**Broadfield Science with a Major in Chemistry B.S.**

**Teacher Certification, 8-12 Science**

**Required courses in the major (66 sh)**

*May also be used to satisfy other requirements.*
- Earth Sciences, 3 sh (Adv)
- ASTR 1411 - Astronomy of Solar System
  or
- ASTR 1412 - Introduction to Stars and the Universe

- PHYS 1401 - College Physics
  or
- PHYS 2425 - University Physics I

- PHYS 2426 - University Physics II
- PHYS 321 - Atomic Physics
- PHYS 333 - Wave Motion, Acoustics, and Optics

- CHEM 1411 - General and Quantitative Chemistry I
  *
  and
- CHEM 1412 - General and Quantitative Chemistry II
  *
  or
- CHEM 1405 - Survey of General Chemistry
  *
  and
- CHEM 1407 - Survey of Organic and Biochemistry
  *

- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- CHEM 340 - Quantitative and Instrumental Analysis
- BSC 1411 - Botany
- BSC 1413 - Zoology
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- BSC 307 - Ecology
- ESCI 1403 - Physical Geology

**Teacher education courses (24 sh)**

- RDG 370 - Reading and Literacy II
- RDG 415 - Learning and Teaching with Expository Text
- SED 300 - The Teaching Profession
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 405 - Residency in Secondary Teaching

**Recommended support courses (6 sh)**
- PSY 300 - Learning Processes and Development
- MATH 192 - Calculus II
- SPED 346 - Introduction to Exceptional Children
  or
- SPED 475 - Collaboration, Accommodation and Modification

University studies courses as required

**Broadfield Science with a Major in Physical Science B.S.**

**Teacher Certification, 8-12 Physical Science**

**Required courses in the major (50 sh)**

- 3 sh advanced Physics or Chemistry
- ASTR 1411 - Astronomy of Solar System
  or
- ASTR 1412 - Introduction to Stars and the Universe
- PHYS 1401 - College Physics
  or
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II
- PHYS 321 - Atomic Physics
- PHYS 333 - Wave Motion, Acoustics, and Optics
- PHYS 441 - Advanced Physics Laboratory
- IS 451 - Historical Development of Great Ideas in Science
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- CHEM 340 - Quantitative and Instrumental Analysis
- ENVS 1301 - Introduction to Environmental Science

**Teacher Education courses (24 sh)**

- RDG 370 - Reading and Literacy II
- RDG 415 - Learning and Teaching with Expository Text
- SED 300 - The Teaching Profession
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 405 - Residency in Secondary Teaching

Support courses (16 sh)

- PSY 300 - Learning Processes and Development
- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- SPED 346 - Introduction to Exceptional Children
  or
- SPED 475 - Collaboration, Accommodation and Modification
- CSCI 126 - Microcomputer Applications
  or
- ETEC 224 - Computer Literacy

University studies as required

**Business Administration Major with Six-Course Minor in Another Area B.S.**

The B.S. degree with a major in business administration provides the student with a broad-based business major and affords the student an opportunity to select a minor to complement business studies. Popular minors are computer science, psychology, mathematics, and various science fields. Minors in foreign languages and international studies are also available and enhance employment opportunities in international business. Graduates of this program would qualify for entry-level management or management trainee positions in marketing, finance, real estate, retailing and wholesaling, as well as positions in government or hospital administration. In addition to the common body of knowledge in business competencies, majors in business administration will demonstrate competencies in their chosen minor field. With a six-course minor, the business administration degree program contains 121 semester hours.

In addition to the completion of the University Studies Program and the College of Business & Technology's core business courses (courses required of all business majors in the College of Business & Technology) for students majoring in Business Administration a minor of at least 18 semester hours is required.

**Freshman**

- US Science, 8 sh
- US PE Activity, 2 sh

- MIS 128 - Business Computer Systems
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II

Total (31 sh)

Sophomore

- US Humanities 3sh
- US Vis/Perf Arts, 3 sh
- Psy/Soc/Anth, 3 sh
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1321 - US - Business and Professional Speaking

Total (30 sh)

Junior

- Minor (Adv), 3 sh
- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- BA 303 - Business Communication
- MGT 305 - Management and Organizational Behavior
- MGT 307 - Operations Management
- MGT 308 - Entrepreneurial Strategy
- MKT 306 - Marketing
- FIN 304 - Introduction to Business Finance
- FIN 312 - Money, Banking, and Financial Markets

Total (30 sh)

Senior

- Minor (6 sh Adv), 15 sh
• BA 420 - International Business
• MIS 426 - Management Information Systems
• MGT 439 - Business Strategy
• ECO 309 - Economic Forecasting
• ACCT 311 - Managerial Accounting

Total (30 sh)

Total Semester Hours: 121

Note:

**Mgt 439 Should be taken the last semester of the senior year.

Chemistry B.S.

A.C.S. Professional Degree

The American Chemical Society professional degree prepares students for careers in a wide variety of positions in industry, government, and education. It is recommended for those students intending to do graduate study in chemistry or seeking employment as chemists in industry. The competencies of students with this degree should meet the criteria for a professional chemist stated by the American Chemical Society.

Required courses in the major (52 sh)

• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• CHEM 201 - Organic Chemistry Tutorial I
• CHEM 202 - Organic Chemistry Tutorial II
• CHEM 211 - Organic Chemistry I
• CHEM 212 - Organic Chemistry II
• CHEM 340 - Quantitative and Instrumental Analysis
• CHEM 351 - Physical Chemistry I
• CHEM 352 - Physical Chemistry II
• CHEM 401 - Chemical Science and Profession
• CHEM 414 - Biochemistry
• CHEM 415 - Inorganic Chemistry
• CHEM 418 - Undergraduate Research
• CHEM 441 - Instrumental Analysis
Required support courses* (17 sh)

*These courses may apply on a second major or minor.

- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- MATH 314 - Calculus III
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- CHEM 101 - General Chemistry Tutorial I
- CHEM 102 - General Chemistry Tutorial II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

Total (30 sh)

Sophomore

- US Soc/Behav Sci, 3 sh
- CHEM 201 - Organic Chemistry Tutorial I
- CHEM 202 - Organic Chemistry Tutorial II
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- CHEM 340 - Quantitative and Instrumental Analysis
- MATH 314 - Calculus III
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- PHYS 2425 - University Physics I
• PHYS 2426 - University Physics II

Total (32 sh)

Junior

• US Vis/Perf Arts, 3 sh
• *Minor, 9 sh (3 Adv)
  □ *Courses can be used to receive second major in Math or Physics.
• CHEM 351 - Physical Chemistry I
• CHEM 352 - Physical Chemistry II
• CHEM 401 - Chemical Science and Profession
• CHEM 418 - Undergraduate Research
• CHEM 441 - Instrumental Analysis
• PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (32 sh)

Senior

• US PE Activity, 2 sh
• US Humanities, 3 sh
• *Minor, 9 sh (Adv)
  □ *Courses can be used to receive second major in Math or Physics.
• CHEM 401 - Chemical Science and Profession
• CHEM 414 - Biochemistry
• CHEM 415 - Inorganic Chemistry
• CHEM 418 - Undergraduate Research

Total (29 sh)

Total Semester Hours: 122

Computer Science B.S.

Required courses in the major (42 semester hours)
• CSCI 152 - Programming Fundamentals II
• CSCI 241 - Machine Language and Computer Organization
• CSCI 251 - Introduction to Information Security, Law, and Ethics
• CSCI 270 - Data Structures and Algorithms
• CSCI 340 - Introduction to Database
• CSCI 359 - Systems Analysis and Design
• CSCI 380 - Web Programming and Interface Design
• CSCI 428 - Object Oriented Programming
• CSCI 430 - Operating Systems
• CSCI 434 - Introduction to Local Area Networks
• CSCI 440 - Applied Software Project Development
• plus 9 semester hours of advanced CSCI courses

Required support courses (37 sh)*

• adv Math, 3 sh
  ○ except 301, 350, 351, 361, 362, 372, 380, 460
• additional science, 4 sh
• ENG 341 - Technical Communication

• PHYS 332 - Digital Logic and Circuitry
  or
• PHYS 432 - Advanced Electronics
  or
• PHYS 492 - Instrumentation and Control

• MATH 2413 - Calculus I
• MATH 192 - Calculus II
• MATH 331 - Discrete Mathematics
• MATH 401 - Introduction to Mathematical Statistics

• PHYS 2425 - University Physics I and
• PHYS 2426 - University Physics II
  or
• CHEM 1411 - General and Quantitative Chemistry I and
• CHEM 1412 - General and Quantitative Chemistry II
  or
• BSC 1411 - Botany and
• BSC 1413 - Zoology
  or
• ENVS 104 - Natural Disasters and
• ENVS 1301 - Introduction to Environmental Science

Notes
*Required support courses may be used to satisfy requirements of a minor/second major, thereby reducing the number of hours required. The 18 sh of Math is a complete Math minor; no additional minor is required. Phys 211, 212, and 332 are half of a Physics minor.

**BSc 101 and 102 at A&M-Commerce are intended for Biology majors only. These courses will satisfy your support course lab science sequence requirement but are not recommended.

Other Departmental Requirements

For a student to enroll in a course above CSci 241, a minimum grade point average of 2.33 is required in the CSci course sequence CSci 151, 152, 241.

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- US Vis/Perf Arts, 3 sh
- US PE Activity, 2 sh
- CSCI 152 - Programming Fundamentals II
- CSCI 241 - Machine Language and Computer Organization
- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

Total (31 sh)

Sophomore

- US Soc/Behav Sci, 3 sh
- US Humanities, 3 sh
- CSCI 251 - Introduction to Information Security, Law, and Ethics
- CSCI 270 - Data Structures and Algorithms
- CSCI 434 - Introduction to Local Area Networks
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1321 - US - Business and Professional Speaking

Total (32 sh)
Junior

- Advanced CSCI, 6 sh
- Science, 4 sh
- CSCI 340 - Introduction to Database
- CSCI 380 - Web Programming and Interface Design
- CSCI 428 - Object Oriented Programming
- MATH 331 - Discrete Mathematics
- MATH 401 - Introduction to Mathematical Statistics
- ENG 341 - Technical Communication

Total (29 sh)

Senior

- Advanced CSCI, 3 sh
- Math (Adv)**, 3 sh
- CSCI 359 - Systems Analysis and Design
- CSCI 430 - Operating Systems
- CSCI 440 - Applied Software Project Development
- PHYS 332 - Digital Logic and Circuitry
  or
- PHYS 432 - Advanced Electronics
  or
- PHYS 492 - Instrumentation and Control
- Electives, 9-10 sh

Total (28 sh)

Total Semester Hours: 120

Notes

*Prerequisites of Math 141 and 142 may be necessary

**Excluding Math 301, 350, 351, 361, 362, 372, 380, 460

Construction Engineering (CONE) B.S.
The U.S. Department of Education defines a Construction Engineering educational program as:

A program that prepares individuals to apply scientific, mathematical, and management principles to the planning, design, and building of facilities and structures. Includes instruction in civil engineering, structural principles, site analysis, computer-assisted design, geology, evaluation and testing, materials, contracting, project management, graphic communications, and applicable laws and regulations.

Construction engineering is involved in the planning, management, and building of structures and facilities essential to societies and communities as well as the overall improvement in the standard of living. The availability of construction engineers is imperative to the rebuilding and maintaining of the infrastructure in the United States, while at the same time developing an emerging infrastructure to support the continued population growth and environment. Federal, state, and local agencies project a faster than average growth rate for construction engineers over the next decade.

Construction engineering at Texas A&M University-Commerce emphasizes the application of engineering and scientific concepts and principles required in the construction industry. In addition the program will consider current and future sustainable technologies. Students in the Construction Engineering program will develop:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- an ability to function on multidisciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Construction engineering graduates are prepared to become a member of an engineer-architect-contractor team in the design-construction effort.

Required courses in the major (63 sh)

- CONE 211 - Statics
- CONE 212 - Dynamics
- CONE 221 - Construction Materials & Methods
- CONE 231 - Construction Estimating
• CONE 331 - Mechanics of Materials
• CONE 341 - Engineering Hydrology & Hydraulics
• CONE 351 - Field Engineering & Surveying
• CONE 411 - Steel & Concrete Design
• CONE 412 - Structural Analysis & Design
• CONE 421 - Construction Safety
• CONE 422 - Construction Engineering Management
• CONE 423 - Contracts and Specifications
• CONE 425 - Construction Planning, Scheduling, and Control
• CONE 431 - Sustainable Construction Methods & Processes
• CONE 432 - Soil Engineering
• CONE 471 - Construction Engineering Internship
• IE 201 - Elementary Engineering Analysis
• IE 207 - Engineering Economic Analysis
• IE 211 - Engineering Probability and Statistics
• IT 111 - Computer Aided Design (CAD)
• IT 340 - Quality Management and Improvement

Required support courses (35 sh)

• CHEM 1411 - General and Quantitative Chemistry I
• MATH 2413 - Calculus I *
• MATH 192 - Calculus II
• MATH 315 - Differential Equations
• MATH 335 - Linear Algebra
• ECO 2301 - Principles of Macro Economics * or ECO 2302 - Principles of Micro Economics *
• PHYS 2425 - University Physics I * and PHYS 2426 - University Physics II *
• ENVS 403 - Environmental Ethics and Law or BSC 417 - Geospatial Mapping
• BA 301 - Legal Environment of Business

* These courses should be used to satisfy the University Studies Requirements in Social and Behavioral Science, Natural Sciences, and Mathematics, respectively; otherwise, the credit hours required to earn the B.S. in CONE will exceed 127.

Suggested Curriculum Outline (B.S.)

Freshman

• CHEM 1411 - General and Quantitative Chemistry I
• ECO 2301 - Principles of Macro Economics or ECO 2302 - Principles of Micro Economics
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865
• IT 111 - Computer Aided Design (CAD)
• MATH 2413 - Calculus I
• MATH 192 - Calculus II
• PHYS 2425 - University Physics I

Total (34 sh)

Sophomore

• CONE 211 - Statics
• CONE 212 - Dynamics
• CONE 221 - Construction Materials & Methods
• IE 201 - Elementary Engineering Analysis
• IE 207 - Engineering Economic Analysis
• IE 211 - Engineering Probability and Statistics
• MATH 315 - Differential Equations
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
• PHYS 2426 - University Physics II
• University PE Activity
• University PE Activity

Total (33 sh)

Junior

• BA 301 - Legal Environment of Business
• CONE 231 - Construction Estimating
• CONE 331 - Mechanics of Materials
• CONE 341 - Engineering Hydrology & Hydraulics
• CONE 351 - Field Engineering & Surveying
• IT 340 - Quality Management and Improvement
• MATH 335 - Linear Algebra
- University Studies Visual/Performing Arts, 3 sh
- University Studies Humanities, 3 sh

Total (30 sh)

Senior

- CONE 411 - Steel & Concrete Design
- CONE 412 - Structural Analysis & Design
- CONE 421 - Construction Safety
- CONE 422 - Construction Engineering Management
- CONE 423 - Contracts and Specifications
- CONE 425 - Construction Planning, Scheduling, and Control
- CONE 431 - Sustainable Construction Methods & Processes
- CONE 432 - Soil Engineering
- CONE 471 - Construction Engineering Internship
- ENVS 403 - Environmental Ethics and Law or BSC 417 - Geospatial Mapping

Total (30 sh)

Environmental Science B.S.

Required courses in major (41 sh)

- BSC 111 - Introduction to Biology
- BSC 307 - Ecology
- BSC 417 - Geospatial Mapping
- ENVS 1301 - Introduction to Environmental Science
- ENVS 301 - Risk Assessment and Environmental Impact Statements
- ENVS 302 - Phase I Environmental Site Assessments
- ENVS 304 - Frontiers in Environmental Sciences
- ENVS 305 - Environmental Hydrology
- ENVS 312 - Introduction to Environmental Toxicology
- ENVS 403 - Environmental Ethics and Law
- ENVS 410 - Environmental Monitoring and Waste Management
Required support courses (24 sh)

- ESCI 1403 - Physical Geology
- ENVS 104 - Natural Disasters
- BSC 1411 - Botany
- BSC 1413 - Zoology
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- BSC 111 - Introduction to Biology
- ESCI 1403 - Physical Geology
- ENVS 104 - Natural Disasters
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 101 - General Chemistry Tutorial I
- CHEM 1412 - General and Quantitative Chemistry II
- CHEM 102 - General Chemistry Tutorial II
- MATH 1314 - College Algebra
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877

Total (31 sh)

Sophomore

- BSC 1411 - Botany
- BSC 1413 - Zoology
- ENVS 1301 - Introduction to Environmental Science
- ENVS 305 - Environmental Hydrology
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
• SPC 1311 - US - Studies in Human Communication
• HIST 1302 - US History from 1865
• US Soc/Behav Sci, 3 sh
• US Vis/Perf Arts, 3 sh

Total (34 sh)

Junior

• BSC 307 - Ecology
• ENVS 301 - Risk Assessment and Environmental Impact Statements
• ENVS 302 - Phase I Environmental Site Assessments
• ENVS 312 - Introduction to Environmental Toxicology
• ENVS 403 - Environmental Ethics and Law
• PLS 309 - Soil Science
• US Humanities, 3 sh
• Minor 6 sh

Total (29 sh)

Senior

• ENVS 410 - Environmental Monitoring and Waste Management
• ENVS 304 - Frontiers in Environmental Sciences
• AEC 219 - Agricultural Economics or
• AEC 445 - Resource and Environmental Economics
• BSC 417 - Geospatial Mapping
• CHEM 1407 - Survey of Organic and Biochemistry
• US PE Activity, 2 sh
• US PE Activity, 2 sh

Total (26 sh)

Total Semester Hours: 120
Industrial Engineering (IE) B.S.

The Institute of Industrial Engineers (IIE) defines Industrial Engineering as:

Industrial engineering is concerned with the design, improvement, and installation of integrated systems of people, materials, information, equipment, and energy. It draws upon specialized knowledge and skill in the mathematical, physical, and social sciences together with the principles and methods of engineering analysis and design, to specify, predict, and evaluate the results to be obtained from such systems.

Industrial Engineering is emerging as one of the vital professions that would be counted on for solving complex problems in a highly technological world. Industrial engineers are confronted with a host of challenging situations ranging from manufacturing and cost estimating to the design of complex systems. They are needed in all kinds of industries and are employed by a variety of organizations including hospitals, banks, engineering firms, petrochemical industries, airline companies, government and military agencies, computer and software firms, and manufacturing.

Industrial Engineering at Texas A&M University-Commerce emphasizes the application of concepts, principles, and managerial skills required in contemporary business and industry. The program of study:

- reflects current and future business and industry practices and competencies
- prepares students for the high-tech engineering world of today and of the future
- develops analytical, critical, and problem-solving skills
- develops leadership skills
- promotes student and faculty interaction with business, industry, and professional organizations
- promotes student and faculty research activities

IE Program Educational Objectives:

1. Students will have the ability to convincingly present their solutions and to do so in the context of written, oral, and electronic media.
2. Students will be prepared to function effectively and provide leadership with an organization as an IE professional including an ability to select and organize, facilitate, lead, coordinate, and participate in teams as well as understand organizational processes and behavior.
3. Students will demonstrate an understanding of the need to collect, analyze, and interpret data relevant to problems arising in the IE discipline.
4. Students will have the ability to approach and diffuse unstructured problems.
5. Students will demonstrate an understanding of and the need to accomplish life-long growth within the industrial engineering profession.
6. Students will be able to utilize the methodological and computational skills to operate effectively within an IE work discipline.

The undergraduate program in Industrial Engineering is accredited by the Engineering Accreditation Commission of ABET; 111 Market Place, Suite 1050; Baltimore, MD 21202-4012; Telephone: (410) 347-7700; Website: http://www.abet.org.

Required courses in the major (67 sh)

- IE 101 - Introduction to Industrial Engineering
- IE 201 - Elementary Engineering Analysis
- IE 207 - Engineering Economic Analysis
- IE 211 - Engineering Probability and Statistics
• IE 305 - Facilities Planning and Management
• IE 311 - Advanced Engineering Statistics
• IE 312 - Industrial Operations Research I
• IE 313 - Industrial Operations Research II
• IE 314 - Statistical Quality Control
• IE 316 - Manufacturing Systems Design and Control
• IE 403 - Human Factors Engineering
• IE 407 - Production Systems Operations
• IE 410 - Systems Simulation
• IE 411 - Engineering Management
• IE 431 - Principles of Programmable Automation
• IE 444 - Systems Engineering
• IE 471 - Planning for Industrial Systems Design
• IE 486 - Service Systems Analysis
• IE 495 - Industrial Systems Design
• IT 111 - Computer Aided Design (CAD)
• IT 112 - Product Design and Development
• IT 340 - Quality Management and Improvement
  or
• MGT 340 - Quality Management and Improvement

Required Support Courses (32 sh)

• CHEM 1411 - General and Quantitative Chemistry I
• CSCI 151 - Programming Fundamentals I
• MATH 192 - Calculus II
• MATH 315 - Differential Equations
• MATH 335 - Linear Algebra
• ECO 2301 - Principles of Macro Economics * or ECO 2302 - Principles of Micro Economics *
• PHYS 2425 - University Physics I * and PHYS 2426 - University Physics II *
• MATH 2413 - Calculus I *

* These courses should be used to satisfy the University Studies Requirements in Social and Behavioral Science, Natural Sciences, and Mathematics, respectively; otherwise, the credit hours required to earn the B.S. in IE will exceed 128.

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

• IT 111 - Computer Aided Design (CAD)
• IT 112 - Product Design and Development
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- IE 101 - Introduction to Industrial Engineering
- CHEM 1411 - General and Quantitative Chemistry I
- MATH 2413 - Calculus I
- MATH 192 - Calculus II

Total (33 sh)

Sophomore

- University Studies PE Activity, 2 sh
- IE 201 - Elementary Engineering Analysis
- IE 207 - Engineering Economic Analysis
- IE 211 - Engineering Probability and Statistics
- CSCI 151 - Programming Fundamentals I
- MATH 315 - Differential Equations
- MATH 335 - Linear Algebra
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II

Total (34 sh)

Junior

- IE 305 - Facilities Planning and Management
- IE 313 - Industrial Operations Research II
- IE 311 - Advanced Engineering Statistics
- IE 312 - Industrial Operations Research I
- IE 316 - Manufacturing Systems Design and Control
- IE 314 - Statistical Quality Control
- IE 410 - Systems Simulation
- IT 340 - Quality Management and Improvement or MGT 340 - Quality Management and Improvement
- ECO 2301 - Principles of Macro Economics
  or
- ECO 2302 - Principles of Micro Economics
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking

Total (30 sh)

Senior

- US Vis/Perf Arts, 3 sh
- US Humanities, 3 sh
- IE 403 - Human Factors Engineering
- IE 431 - Principles of Programmable Automation
- IE 407 - Production Systems Operations
- IE 411 - Engineering Management
- IE 444 - Systems Engineering
- IE 471 - Planning for Industrial Systems Design
- IE 486 - Service Systems Analysis
- IE 495 - Industrial Systems Design

Total (31 sh)

Total Semester Hours: 128

**Instructional Training and Design B.S.**

An undergraduate degree program leading to the Bachelor of Science degree with a major in Instructional Training and Design is available.

The Instructional Training and Design program also offers an avenue for individuals desiring a dual major or a minor. In addition to completing the coursework for the Career and Technology teacher certification, it is possible for the individual to complete a second major or minor in areas such as Industrial Technology, Business, Computer Science, Psychology, Sociology, Criminology, etc. This allows individuals to leave the university environment with preparation to either teach or enter industry at the management level.

The major is composed of a minimum of twenty-four (24) semester hours incorporating elements of professional education and technical content, plus thirty to thirty-six semester (30-36) hours of Career and Technology coursework transferred in from another institution. The major consists of a minimum of twenty-four (24) semester hours composed of professional teacher education courses and a second major or minor in an area such as Industrial Technology, Business, Computer Science, Psychology, Sociology, or Criminology.

The major prepares graduates for a career as a secondary teacher, as well as Business/Industrial Trainers. Teacher preparation program for secondary Cooperative and Pre-Employment Laboratory teachers leading to provisional certificates are provided as
follows: Career/Technical Health Science Technology; Career/Technical Office Education; Career/Technical Trade and Industrial Education and Career/Technical Occupational Investigation.

Courses required for these certification programs may be included in the major. However, in most cases, the professional teacher certificate cannot be secured prior to the completion of two years teaching experience in an approved secondary-level program. Approval for entrance into teaching and eventual certification is not based on coursework and degrees alone, but includes such factors as work experience in the occupation to be taught. Some certification programs may be completed at a graduate level. Students interested in securing approval and/or certificates to teach in a career and technology field should contact the Center for Career and Technology Education faculty in the Department of Educational Leadership for additional information and assistance.

Required courses in major (24 sh)

- TDEV 410 - Utilizing Effective Instructional Techniques
- TDEV 411 - Managing the Instructional Environment
- TDEV 423 - Leadership Applications for Career and Technology
- TDEV 425 - Human Relations for Career and Technology Teachers and Business/Industrial Trainers
- TDEV 427 - Developing Instructional Resources
- TDEV 448 - Designing and Evaluating Curriculum
- TDEV 450 - Practicum
- TDEV 479 - History and Principles of Career and Technology Education

Second Major or Minor (27sh)

Required support courses (6 sh)

- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- SOC 310 - Psychology and Sociology of Diverse Populations
  or
- PSY 310 - Psychology and Sociology of Diverse Populations

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- US Soc/Behav Sci, 3 sh
- US Vis/Perf Arts, 3 sh
- Electives, 6 sh*
- US PE Activity, 2 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1314 - College Algebra
  or
- MATH 1324 - Mathematics for Business Applications
  or
- MATH 179 - Mathematics: Applications and Philosophy

Total (29 sh)

Sophomore

- US Science, 8 sh
- US Humanities, 3 sh
- Second Major, 6 sh
- Electives, 3 sh*
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- SED 200 - Schools, Community, and Society

Total (32 sh)

Junior

- Second Major, 6 sh
- Electives, 3 sh*
- TDEV 410 - Utilizing Effective Instructional Techniques
- TDEV 411 - Managing the Instructional Environment
- TDEV 427 - Developing Instructional Resources
- TDEV 448 - Designing and Evaluating Curriculum
- ETEC 224 - Computer Literacy
- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- SOC 310 - Psychology and Sociology of Diverse Populations
  or
- PSY 310 - Psychology and Sociology of Diverse Populations

Total (30 sh)
Senior

- Second Major, 12 sh
- Electives, 12 sh*
- TDEV 423 - Leadership Applications for Career and Technology
- TDEV 425 - Human Relations for Career and Technology Teachers and Business/Industrial Trainers
- TDEV 479 - History and Principles of Career and Technology Education

Total (33 sh)

Total Semester Hours: 121

Note

*May be applied toward teacher certificate. Have certification office prepare a deficiency plan. Or may be applied toward second major.

Second Major or Minor (27 semester hours)

Required support courses (6 semester hours)

- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- SOC 310 - Psychology and Sociology of Diverse Populations
- PSY 310 - Psychology and Sociology of Diverse Populations

Music with All-Level Teacher Certification B.S.

(127 Semester Hours)

University Studies (43 sh)

Core Curriculum for All Music Majors
Music requirements (43 sh)

- MUS 100 - Ensembles
- MUS 114 - Fundamental Theory
  or
- MUS 115 - Theory I
  with CAS 111
- MUS 117 - Ear Training I
- MUS 125 - Theory II
- MUS 127 - Ear Training II
- MUS 152 - Principal Applied
- MUS 215 - Theory III
- MUS 217 - Ear Training III
- MUS 225 - Theory IV
- MUS 313 - Fundamentals of Conducting
- MUS 316 - Analysis of Music Form
- MUS 323 - Music History I
- MUS 324 - Music History II
- MUS 352 - Principal Applied
- MUS 136(c) - Advanced Chord Class Piano
  (keyboard class 1 sh)
  or
- MUS 151 - Minor Applied Music
  (applied keyboard 1 sh)

Additional Requirements for All Music Majors

All incoming students must audition for acceptance as a music major (BS or BM). At the beginning of the first semester of attendance, music majors take diagnostic exams in theory and are assigned MUs 114 or 115 to be taken concurrently with the Freshmen Success Seminar (CAS 111). In addition, each music major must (1) enroll for a major ensemble each semester until all music degree requirements are met; (2) pass six semesters of recital attendance (MUS 100.001); (3) meet the keyboard competency requirement; (4) pass the barrier examination in applied music study, and (5) present one or more public recital(s).

Keyboard Competency Requirement

Requirements for keyboard skills vary according to the major. Instrumental majors may demonstrate keyboard competency through proficiency examination or by completion of Music 136C. Vocalists must pass two proficiency exams: the first to move from MUS 151 to 351, and the second to complete study at the upper division level (351). All students must demonstrate keyboard competency before conferral of their degrees.

Applied Barrier Exam Requirement

A barrier exam is required of all music majors to achieve advanced standing on their principal applied instrument before registering for upper division applied study. The examination is administered at the end of the fourth semester of study, but may
be taken earlier upon the recommendation of the applied teacher. (Regardless, all students must complete the required total number of semester hours in applied music as specified on the various degree plans.) Students who do not satisfactorily pass the initial exam have, at the discretion of the principal applied professor, one additional long semester to complete the exam requirement. Students who do not satisfactorily pass the second attempt at the barrier exam will be dismissed from the A&M-Commerce music program. Upper division applied credit (352) must be completed at A&M-Commerce to be counted toward a music degree.

Recital Performance Requirement

After enrollment in upper division applied study, students must present one or more public recitals. Performance majors must present a junior half (30 min.) recital and a senior full (60 min.) recital; education majors must present a half recital (30 min.) during their junior or senior year. The applied faculty must approve the scope of the recital.

Music Education Emphasis (20 sh)

Elementary General Emphasis:

- MUS 310 - Music Technology
- MUS 321 - Elementary Music Instruments
- MUS 450 - Music and Movement I
- MUS 465 - Music and Movement II

AND

*For instrument majors*

- MUS 139 - Voice Class
- MUS 133 - Class Instruments
- MUS 151 - Minor Applied Music
- MUS 100 - Ensembles
  
  OR

*For vocal majors*

- MUS 141 - Diction for Singers
- MUS 142 - Diction for Singers
- MUS 351 - Minor Applied Music
- MUS 403 - Voice Production
- MUS 413 - Choral Conducting

Secondary Instrumental Emphasis:

- MUS 133 - Class Instruments
- MUS 134 - Elementary String Class
- MUS 139 - Voice Class
- MUS 310 - Music Technology
- MUS 320 - Music Literature for Elementary Music Education
- MUS 414 - Instrumental Conducting
- MUS 416 - Orchestration/Arranging
• MUS 420 - Instrumental Organization
• MUS 430 - Instrumental Literature

Secondary Vocal Emphasis:

• MUS 141 - Diction for Singers
• MUS 142 - Diction for Singers
• MUS 310 - Music Technology
• MUS 320 - Music Literature for Elementary Music Education
• MUS 351 - Minor Applied Music (piano, 1 sh)
• MUS 403 - Voice Production
• MUS 410 - History and Organization of Choral Music
• MUS 413 - Choral Conducting
• MUS 470 - Choral Literature

Professional Development (21 sh)

• PSY 300 - Learning Processes and Development
• RDG 380 - Comprehension and Vocabulary in Middle and High Schools
• SED 300 - The Teaching Profession
• SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
• SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
• SED 405 - Residency in Secondary Teaching
• ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Prerequisites to Student Teaching in Music

Prior to student teaching, a music major in the Teacher Education program must be:

• admitted to upper division and complete three semester hours of upper division credit in his/her major applied music area,
• complete the courses in his/her area of emphasis and the required professional development courses,
• complete the piano requirements (n.b. Piano requirements are designed for three levels of achievement depending upon the student’s major applied area.),
• be on campus as full-time music majors either two full semesters or one semester and a full summer session prior to registering for student teaching.

Pre-Medical Biological Sciences Major

Required courses in the major (48 sh)

• BSc classes in Specialization Area, 15 sh (Adv)
• BSC 1406 - Introductory Biology I
• BSC 1407 - Introductory Biology II
• BSC 111 - Introduction to Biology
• BSC 301 - Biological Literature
• BSC 303 - Cell Biology
• BSC 304 - Genetics
• BSC 305 - General Physiology
• BSC 306 - Applied Microbiology
• BSC 307 - Ecology
• BSC 401 - Senior Seminar

Required support courses (41 sh)

• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• CHEM 201 - Organic Chemistry Tutorial I
• CHEM 202 - Organic Chemistry Tutorial II
• CHEM 211 - Organic Chemistry I
• CHEM 212 - Organic Chemistry II
• CHEM 314 - General Biochemistry
• MATH 142 - Pre-Calculus
• MATH 2413 - Calculus I
• PHYS 1401 - College Physics
• PHYS 1402 - College Physics

Plus one course from:

• MATH 453 - Essentials of Statistics
• PSY 302 - Psychological Statistics: Descriptive and Inferential
• BSC 412 - Quantitative Biology

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

• BSC 1411 - Botany
• BSC 1413 - Zoology
• BSC 111 - Introduction to Biology
• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• MATH 2413 - Calculus I
• MATH 142 - Pre-Calculus
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research

Total (32 sh)

Sophomore

• BSC 301 - Biological Literature
• BSC 303 - Cell Biology
• BSC 304 - Genetics
• CHEM 201 - Organic Chemistry Tutorial I
• CHEM 202 - Organic Chemistry Tutorial II
• CHEM 211 - Organic Chemistry I
• CHEM 212 - Organic Chemistry II
• PHYS 1401 - College Physics
• PHYS 1402 - College Physics
• HIST 1301 - US History to 1877

Total (32 sh)

Junior

• BSC 305 - General Physiology
• BSC 306 - Applied Microbiology
• BSC 307 - Ecology
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
• US Vis/Perf Arts, 3sh
• US Humanities, 3 sh
• Specialization area, 3 sh (Adv)

Total (30 sh)

Senior
Technology Management (TMGT) B.S.

The Bachelor of Science (B.S.) degree in Technology Management is an online and/or classroom taught program of study designed to integrate technology, applied engineering, project management, costs engineering, quality, business management, leadership and design into a variety of business, construction, and industrial careers. Graduates are suited for professional positions where the solving of complex technological problems; management of the environment, processes and workforce; controlling cost and resources; and insuring a safe and ergonomically correct workplace are essential. Leadership, communication skills, group collaboration, managing and understanding cultural differences, sustainability, increasing value, technological skills and the effective management of current and future global enterprises are emphasized throughout the program. Program graduates are prepared for and encouraged to continue their education after the awarding the B.S. degree by obtaining the Master of Science degree in Technology Management.

Required courses in the major (48 sh)

- IT 111 - Computer Aided Design (CAD)
- IT 303 - Industrial Communications
- IT 340 - Quality Management and Improvement
- TMGT 311 - Environmental & Safety Management
- TMGT 335 - Construction & LEED Systems
- TMGT 336 - Construction Cost Estimating
- TMGT 350 - Principles of Technology Management
- TMGT 351 - Managing Cultural Differences
- TMGT 352 - Principles of Cost Engineering
- TMGT 439 - Construction Management
- TMGT 454 - Contracts & Specifications
• TMGT 455 - Project Planning and Scheduling
• TMGT 456 - Value Chain Control & Management
• TMGT 457 - Enterprise Analysis & Trends
• TMGT 411 - Risk Management
• TMGT 458 - Project Management

Required Support Courses (38 sh)

• ACCT 221 - Principles of Accounting I
• BA 301 - Legal Environment of Business
• BAAS 345 - Organizational Leadership
• BAAS 355 - Dynamic Organization
• BAAS 444 - Strategies for Decision Making
• CSCI 126 - Microcomputer Applications or MIS 128 - Business Computer Systems
• ECO 2301 - Principles of Macro Economics * or ECO 2302 - Principles of Micro Economics *
• MATH 1314 - College Algebra *
• MATH 142 - Pre-Calculus
• * PHYS 1401 - College Physics and *PHYS 1402 - College Physics
• MGT 394 - Human Resource Management

*These courses should be used to satisfy the University Studies Requirements in Social and Behavioral Science, Natural Sciences, and Mathematics, respectively; otherwise, the credit hours required to earn the B.S. in TMGT will exceed 121.

Electives (6 sh)

• Technical Elective, 3 sh
• Technical Elective, 3 sh

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

• CSCI 126 - Microcomputer Applications or MIS 128 - Business Computer Systems
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865
• IT 111 - Computer Aided Design (CAD)
• MATH 1314 - College Algebra
• MATH 142 - Pre-Calculus
- University Studies PE Activity
- University Studies PE Activity
- University Studies Visual/Performing Arts, 3 sh

Total (29 sh)

Sophomore

- ACCT 221 - Principles of Accounting I
- ECO 2301 - Principles of Macro Economics or ECO 2302 - Principles of Micro Economics
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- Technical Elective, 3 sh
- Technical Elective, 3 sh
- University Studies Humanities, 3 sh

Total (32 sh)

Junior

- BA 301 - Legal Environment of Business
- BAAS 345 - Organizational Leadership
- BAAS 355 - Dynamic Organization
- IT 303 - Industrial Communications
- IT 340 - Quality Management and Improvement
- TMGT 311 - Environmental & Safety Management
- TMGT 335 - Construction & LEED Systems
- TMGT 336 - Construction Cost Estimating
- TMGT 350 - Principles of Technology Management
- TMGT 352 - Principles of Cost Engineering

Total (30 sh)
Senior

- BAAS 444 - Strategies for Decision Making
- MGT 394 - Human Resource Management
- TMGT 351 - Managing Cultural Differences
- TMGT 411 - Risk Management
- TMGT 439 - Construction Management
- TMGT 454 - Contracts & Specifications
- TMGT 455 - Project Planning and Scheduling
- TMGT 456 - Value Chain Control & Management
- TMGT 457 - Enterprise Analysis & Trends
- TMGT 458 - Project Management

Total (30 sh)

Total Semester Hours: 121

Wildlife and Conservation Science Broadfield Major B.S.

Associate Wildlife Biologist Pre-Certification

Required Courses in the Major (70 sh)

- AG 335 - Wildlife Management I or BSC 335 - Wildlife Management I
- AG 336 - Wildlife Management II or BSC 336 - Wildlife Management II
- AG 100 - Introduction to Agriculture
- AG 300 - Agricultural Communications Seminar
- AG 400 - Seminar
- AG 405 - Internship in Agri-Industries or BSC 405 - Biology Internship
- AEC 360 - Agricultural Law
- ANS 310 - Genetics of Livestock Improvement
- ANS 319 - Anatomy and Physiology of Domestic Animals
- PLS 309 - Soil Science
- PLS 460 - Plant Taxonomy
- BSC 301 - Biological Literature
- BSC 307 - Ecology
- BSC 337 - Field Methods in Wildlife and Conservation Science
- BSC 402 - Ornithology or BSC 406 - Mammalogy
- BSC 404 - Vertebrate Biology
- BSC 412 - Quantitative Biology
- BSC 436 - Plant Diversity and Conservation
- BSC 417 - Geospatial Mapping
- ENVS 403 - Environmental Ethics and Law

Required Support Courses (11 sh)

- PSY 302 - Psychological Statistics: Descriptive and Inferential
- CHEM 101 - General Chemistry Tutorial I
- CHEM 1407 - Survey of Organic and Biochemistry
- CHEM 1411 - General and Quantitative Chemistry I

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- BSC 1411 - Botany
- BSC 1413 - Zoology
- MATH 1314 - College Algebra
- MATH 142 - Pre-Calculus
- AG 100 - Introduction to Agriculture
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- CHEM 101 - General Chemistry Tutorial I
- CHEM 1407 - Survey of Organic and Biochemistry
- CHEM 1411 - General and Quantitative Chemistry I

Total (30 sh)

Sophomore

- ANS 319 - Anatomy and Physiology of Domestic Animals
- AG 335 - Wildlife Management I or BSC 335 - Wildlife Management I
- AG 336 - Wildlife Management II or BSC 336 - Wildlife Management II
- BSC 301 - Biological Literature
- PLS 309 - Soil Science
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- PSY 302 - Psychological Statistics: Descriptive and Inferential
- US Soc/Behav Sci, 3sh
- US Vis Perf Arts, 3sh

Total (31 sh)

Junior

- US Humanities, 3 sh
- ENVS 403 - Environmental Ethics and Law
- ANS 310 - Genetics of Livestock Improvement
- BSC 307 - Ecology
- BSC 412 - Quantitative Biology
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
  Even Years:
  - AEC 360 - Agricultural Law
  - BSC 402 - Ornithology or BSC 406 - Mammalogy
  - PLS 460 - Plant Taxonomy
  Odd Years:
  - BSC 404 - Vertebrate Biology
  - BSC 417 - Geospatial Mapping

Total (31 sh)

Senior

- US PE Activity, 2 sh
- BSC 337 - Field Methods in Wildlife and Conservation Science
- BSC 416 - Wildlife Population Biology
- BSC 436 - Plant Diversity and Conservation
- AG 405 - Internship in Agri-Industries or BSC 405 - Biology Internship
- AG 300 - Agricultural Communications Seminar
- AG 400 - Seminar
  Even Years:
  - AEC 360 - Agricultural Law
  - BSC 402 - Ornithology or BSC 406 - Mammalogy
  - PLS 460 - Plant Taxonomy
Odd Years:
- BSC 404 - Vertebrate Biology
- BSC 417 - Geospatial Mapping

Total (29 sh)

Total Semester Hours: 121

Notes

Program will also accept Chem 112 and as substitute for Chem 108; BSc 304 as substitute for AnS 310; BSc 305 as substitute for AnS 319.

Bachelor of Science in Computer Information Systems

Computer Information Systems B.S.C.I.S.

Required courses in the major (39 sh)

- CSCI 152 - Programming Fundamentals II
- CSCI 233 - Information Systems Programming
- CSCI 241 - Machine Language and Computer Organization
- CSCI 251 - Introduction to Information Security, Law, and Ethics
- CSCI 270 - Data Structures and Algorithms
- CSCI 340 - Introduction to Database
- CSCI 434 - Introduction to Local Area Networks
- CSCI 359 - Systems Analysis and Design
- CSCI 380 - Web Programming and Interface Design
- CSCI 440 - Applied Software Project Development
- 9 semester hours of advanced CSCI courses

Required support courses (12 sh)
Required support courses may be used to satisfy requirements of a minor/second major, thereby reducing the number of hours required. This program requires a minor or second major from another department; Accounting, General Business, Information Technology, or another area of business is recommended.

- ENG 341 - Technical Communication
- MATH 176 - Mathematics for Business Applications II
- BA 302 - Business and Economic Statistics
- MIS 328 - Project Management and Practice

Other Departmental Requirements

For a student to enroll in a course above CSci 241, a minimum grade point average of 2.33 is required in the CIS course sequence CSci 151, 152, 233, 241.

SUGGESTED CURRICULUM OUTLINE (B.S.C.I.S.)

Freshman

- US Science, 4 sh
- US PE Activity, 2 sh
- CSCI 152 - Programming Fundamentals II
- CSCI 233 - Information Systems Programming
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II

Total (30 sh)

Sophomore

- US Science, 4 sh
- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- US Soc/Behav Sci, 3 sh
- CSCI 241 - Machine Language and Computer Organization
- CSCI 251 - Introduction to Information Security, Law, and Ethics
- CSCI 270 - Data Structures and Algorithms
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1321 - US - Business and Professional Speaking
Total (31 sh)

Junior

- Minor, 9 sh*
- Advanced CSCI, 3 sh
- CSCI 340 - Introduction to Database
- CSCI 380 - Web Programming and Interface Design
- CSCI 434 - Introduction to Local Area Networks
- BA 302 - Business and Economic Statistics
- ENG 341 - Technical Communication
- MIS 328 - Project Management and Practice

Total (30 sh)

Senior

- Minor, 9 sh*
- Electives, 8 sh
- Advanced CSCI, 6 sh
- CSCI 359 - Systems Analysis and Design
- CSCI 440 - Applied Software Project Development

Total (29 sh)

Total Semester Hours: 120

Bachelor of Social Work

Social Work B.S.W.

The major consists of 60 sh, 54 sh of which are in social work. The remainder are in supporting disciplines of psychology and sociology. A second major or a minor is not required for social work majors.

Students seeking a bachelor’s degree with the Social Work major must complete: (1) degree requirements for a Bachelor of Social Work degree and (2) University Studies requirements (refer to those sections of this catalog). The Social Work Program
requires that the social/behavioral science course be Anth 114; and that students take one course in human biology (BSc 107) or two semesters of human anatomy and physiology, or HHPK 172 may be substituted if the student has previously completed two 4hr labs sciences.

The professional foundation in social work education is built on a liberal arts perspective. Students will be expected to have finished most University Studies coursework before admission to the Social Work Program.

To ensure that the knowledge, skills, and values necessary for beginning generalist social work practice are acquired and integrated by the student in an orderly progression, the curriculum is carefully sequenced. Prerequisites and concurrent enrollment requirements are strictly observed.

Due to the complexity of the curriculum, students are expected to obtain advisement by a social work faculty member prior to registration each semester.

Other Requirements

A grade of “C” or higher must be earned in all Social Work courses, Psy 131 and Soc 111. A three or four semester hour course in Human Biology or eight semester hours of Human Anatomy and Physiology are required.

Required courses in the major (60 sh)

- upper division Social Work elective or equivalent, 3 sh
- SWK 225 - Introduction to Social Work
- SWK 250 - Foundations of Social Work Practice
- SWK 275 - Human Behavior and the Social Environment I
- SWK 322 - Human Behavior and the Social Environment II
- SWK 325 - Social Work Practice with Mezzo Systems
- SWK 328 - Social Welfare Policy and Services
- SWK 329 - Social Work Practice with Micro Systems
- SWK 331 - Social Work Practice with Macro Systems
- SWK 340 - Global Perspectives of Human Welfare
- SWK 348 - Promoting Mental Health Across Populations
- SWK 350 - Social Work Research Methods
- SWK 370 - Writing and Technology Skills in Social Work
- SWK 422 - Integration of Practice
- SWK 424 - Generalist Practice in the Field
- SWK 425 - Field Instruction I
- SWK 426 - Field Instruction II
- PSY 2301 - Introduction to Psychology
- SOC 1301 - Introduction to Sociology

University Studies courses (43 sh)

Required from options:

- ANTH 2351 - World Cultures: Perspectives from Anthropology
- BSC 1409 - Human Biology: Structure and Function

**SUGGESTED CURRICULUM OUTLINE**

**Freshman**

- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- US PE Activity, 2 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- ANTH 2351 - World Cultures: Perspectives from Anthropology
- MATH 1314 - College Algebra
  or
- MATH 1324 - Mathematics for Business Applications
  or
- MATH 179 - Mathematics: Applications and Philosophy
- PSCI 2301 - Principles of United States and Texas Government

Total (29 sh)

**Sophomore**

- US Science, 4 sh
- Elective, 3 sh
- SWK 225 - Introduction to Social Work
- SWK 250 - Foundations of Social Work Practice
- SWK 275 - Human Behavior and the Social Environment I
- SOC 1301 - Introduction to Sociology
- BSC 1409 - Human Biology: Structure and Function
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- PSY 2301 - Introduction to Psychology

Total (32 sh)
Junior

- SWk Elective, 3 sh
- Elective, 6 sh
- SWK 322 - Human Behavior and the Social Environment II
- SWK 325 - Social Work Practice with Mezzo Systems
- SWK 328 - Social Welfare Policy and Services
- SWK 329 - Social Work Practice with Micro Systems
- SWK 331 - Social Work Practice with Macro Systems
- SWK 348 - Promoting Mental Health Across Populations
- SWK 350 - Social Work Research Methods
- SWK 370 - Writing and Technology Skills in Social Work
- SWK 340 - Global Perspectives of Human Welfare

Total (36 sh)

Senior

- Electives, 9 sh
- SWK 422 - Integration of Practice
- SWK 424 - Generalist Practice in the Field
- SWK 425 - Field Instruction I
- SWK 426 - Field Instruction II

Total (24 sh)

Total Semester Hours: 121

Note

*A second major or a minor is not required for students selecting this major.

Certificate

Computer Information Systems Teacher Certification, 8-12 Computer Science
Required courses in the major (36 sh)

- CSCI 151 - Programming Fundamentals I
- CSCI 152 - Programming Fundamentals II
- CSCI 241 - Machine Language and Computer Organization
- CSCI 251 - Introduction to Information Security, Law, and Ethics
- CSCI 270 - Data Structures and Algorithms
- CSCI 340 - Introduction to Database
- CSCI 434 - Introduction to Local Area Networks
- CSCI 359 - Systems Analysis and Design
- CSCI 380 - Web Programming and Interface Design
- CSCI 431 - Java Language Programming
- CSCI 440 - Applied Software Project Development
- Adv. CSci, 3 sh

Teacher education courses (24 sh)

- SED 200 - Schools, Community, and Society
- SED 300 - The Teaching Profession
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 405 - Residency in Secondary Teaching
- RDG 370 - Reading and Literacy II

Required support courses (18 sh)

- ENG 341 - Technical Communication
- MATH 176 - Mathematics for Business Applications II
- BA 302 - Business and Economic Statistics
  or
- MATH 453 - Essentials of Statistics
- MIS 328 - Project Management and Practice
- PSY 300 - Learning Processes and Development
- SPED 346 - Introduction to Exceptional Children

Other departmental requirements
For a student to enroll in a course above CSci 241, a minimum grade point average of 2.33 is required in the CIS course sequence CSci 151, 152, 241.

SUGGESTED CURRICULUM OUTLINE (B.S.C.I.S.)

Freshman

- US Science, 4 sh
- US PE Activity, 2 sh
- CSCI 151 - Programming Fundamentals I
- CSCI 152 - Programming Fundamentals II
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1324 - Mathematics for Business Applications
- MATH 176 - Mathematics for Business Applications II

Total (30 sh)

Sophomore

- US Science, 4 sh
- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- US Soc/Behav Sci, 3 sh
- CSCI 241 - Machine Language and Computer Organization
- CSCI 251 - Introduction to Information Security, Law, and Ethics
- CSCI 270 - Data Structures and Algorithms
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SPC 1321 - US - Business and Professional Speaking

Total (31 sh)

Junior

- CSCI 340 - Introduction to Database
- CSCI 380 - Web Programming and Interface Design
- CSCI 431 - Java Language Programming
- CSCI 434 - Introduction to Local Area Networks
• BA 302 - Business and Economic Statistics
  or
• MATH 453 - Essentials of Statistics

• SED 200 - Schools, Community, and Society
• SED 300 - The Teaching Profession
• PSY 300 - Learning Processes and Development
• ENG 341 - Technical Communication
• RDG 370 - Reading and Literacy II

Total (30 sh)

Senior

• CSci (adv), 3 sh
• CSCI 359 - Systems Analysis and Design
• CSCI 440 - Applied Software Project Development
• MIS 328 - Project Management and Practice
• SPED 346 - Introduction to Exceptional Children
• SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
• SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
• SED 404 - Internship in Secondary Teaching
• SED 405 - Residency in Secondary Teaching

Total (30 sh)

Total Semester Hours: 121

History 8-12, Teaching Certification

Required courses in the major (40 sh)

• HIST 253 - Reading and Writing History
• HIST 303 - Historical Geography
• HIST 305 - World History: Origins through the Seventeenth Century
• HIST 306 - The Emergence of the Modern World
• HIST 360 - Themes in World History
• HIST 400 - Controversies in History and Social Studies
• HIST 401 - Introduction to Teaching History and Social Studies
• HIST 415 - History of Texas

Plus 3 sh early Europe:

• HIST 312 - Ancient and Medieval Europe
  or
• HIST 315 - Early Modern Europe

Plus 3 sh modern Europe:

• HIST 327 - Europe in the Age of Enlightenment and Revolution, 1648-1848
  or
• HIST 333 - Modern Europe, 1848-1991

Plus 3 sh Asia or Latin America:

• HIST 365 - History of Modern East Asia

• HIST 375 - Colonial Latin America
  or
• HIST 385 - Latin America in the Modern Period

Plus 3 sh early U.S.:

• HIST 402 - Colonial North America to 1775
  or
• HIST 403 - Revolutionary America and the Early National United States, 1775-1850

Plus 3 sh modern U.S.:

• HIST 407 - Emergence of Modern America, 1850-1920
  or
• HIST 409 - The Twentieth-Century United States

Plus 3 sh from:

• any 300- or 400-level Hist course

Teacher Education Courses (18 sh)

• RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- SED 300 - The Teaching Profession
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 405 - Residency in Secondary Teaching

Support Courses (3 sh)

- PSY 300 - Learning Processes and Development

Other Requirements

A grade of “C” or higher must be earned in all History courses required for this major. Fifteen semester hours of History must be taken at Texas A&M University-Commerce.

Journalism – Secondary Teacher Certification (Option II)

Required courses in the major (21 sh)

- JOUR 115 - Publication Design and Production
- JOUR 214 - Basic Reporting
- JOUR 260 - Advertising Principles
- JOUR 315 - Editing and Production
- JOUR 335 - Media History
- JOUR 336 - Media Law
- JOUR 445 - Ethics in the Media

Required support courses (3 semester hours)

- JOUR 314 - Intermediate Reporting
- JOUR 326 - Advanced Reporting/Feature Writing
- JOUR 350 - Visual Communication for News Publications
- Special Topics class (3) as offered and approved by Division Coordinator.

Social Studies 4-8, Teaching Certification

Students seeking teacher certification in grades four through eight in social studies must take the courses required for this major. In addition they must take required support courses designed to broaden their content knowledge in order to help them teamplan with middle school teachers in other disciplines.
Required courses in the major (34 sh)

- HIST 253 - Reading and Writing History
- HIST 303 - Historical Geography
- HIST 306 - The Emergence of the Modern World
- HIST 333 - Modern Europe, 1848-1991
- HIST 400 - Controversies in History and Social Studies
- HIST 401 - Introduction to Teaching History and Social Studies
- HIST 402 - Colonial North America to 1775
- HIST 403 - Revolutionary America and the Early National United States, 1775-1850
- HIST 405 - The Civil War and Reconstruction, 1850-1877
- HIST 411 - Race and Education in the 20th Century US
- HIST 415 - History of Texas
- PSCI 335 - Political Economy

Required support courses (48 sh)

- PSY 300 - Learning Processes and Development
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- RDG 450 - Building a Community of Readers
- MLED 314 - Young Adolescent Development
- MLED 435 - Integrating Instruction: Science, Mathematics and Technology
- MLED 402 - Best Practices in Pedagogy and Assessment
- MLED 403 - Organization, Motivation and Management in Middle Level Classrooms
- MLED 410 - Fostering School, Family, and Community Relationships
- MATH 350 - Topics in Mathematics for Elementary Teachers I
- MATH 351 - Topics in Mathematics for Elementary Teachers II
- SPED 346 - Introduction to Exceptional Children
- ENVS 403 - Environmental Ethics and Law
- ESCI 461 - Earth Science for Teachers
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs

Plus 3 sh from:

- ELED 300 - Introduction to Teaching or SED 300 - The Teaching Profession

Plus 3 sh from:

- ELED 200 - Schools and Society or SED 200 - Schools, Community, and Society

Other Requirements
A grade of “C” or higher must be earned in all History and Political Science courses required for this major. Fifteen semester hours of the major must be taken at Texas A&M University-Commerce.

Social Studies 8-12, Teaching Certification

Required courses (58 sh)

- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- HIST 253 - Reading and Writing History
- HIST 303 - Historical Geography
- HIST 400 - Controversies in History and Social Studies
- HIST 401 - Introduction to Teaching History and Social Studies
- HIST 415 - History of Texas
- PSCI 330 - Introduction to Political Science
- PSCI 335 - Political Economy
- ESCI 425 - Weather, Climate, and Human Environment

World History (3 sh Needed)

- HIST 305 - World History: Origins through the Seventeenth Century
- HIST 306 - The Emergence of the Modern World or HIST 360 - Themes in World History

Asia or Latin American History (3 sh Needed)

- HIST 365 - History of Modern East Asia
- HIST 375 - Colonial Latin America or HIST 385 - Latin America in the Modern Period

European History (3 sh Needed)

- HIST 312 - Ancient and Medieval Europe
- HIST 313 - A Feudal Society
- HIST 314 - The European Reformations
- HIST 315 - Early Modern Europe
- HIST 327 - Europe in the Age of Enlightenment and Revolution, 1648-1848
- HIST 329 - Women and Gender in European History
- HIST 333 - Modern Europe, 1848-1991 or HIST 334 - Urban Underworlds: The City and Its People in Modern Europe

Early U.S. History (3 sh Needed)
- HIST 402 - Colonial North America to 1775
- HIST 403 - Revolutionary America and the Early National United States, 1775-1850 or HIST 404 - Religion in Early American History

Plus 1 course from:

- PSCI 333 - Non-European Political Systems
- PSCI 430 - Revolutions and Revolutionary Movements
- PSCI 437 - Foreign Policy
- PSCI 438 - International Relations

Plus 1 course from:

- PSCI 331 - European Political Systems
- PSCI 332 - Democracy and Democratization
- PSCI 333 - Non-European Political Systems

Plus 1 course from:

- PSCI 341 - The American Presidency
- PSCI 342 - Introduction to Global Public Policy
- PSCI 441 - Congressional Politics
- PSCI 442 - Constitutional Law
- PSCI 443 - Civil Liberties and Civil Rights

Plus 1 course from:

- PSCI 342 - Introduction to Global Public Policy
- PSCI 344 - American Political Parties and Electoral Politics
- PSCI 345 - Public Opinion
- PSCI 441 - Congressional Politics

Plus 1 course from:

- PSCI 342 - Introduction to Global Public Policy
- PSCI 346 - Introduction to Public Policy
- PSCI 437 - Foreign Policy
- PSCI 442 - Constitutional Law
- PSCI 443 - Civil Liberties and Civil Rights
Plus 1 course from:

- PSCI 332 - Democracy and Democratization
- PSCI 410 - European Political Theory I
- PSCI 411 - European Political Theory II
- PSCI 412 - European Political Theory III
- PSCI 430 - Revolutions and Revolutionary Movements

Special note:

While some courses are included more than once in the list of required courses, a particular course MAY NOT be used to satisfy more than one requirement.

Teacher Education Courses (18 sh)

- RDG 380 - Comprehension and Vocabulary in Middle and High Schools
- SED 300 - The Teaching Profession
- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 405 - Residency in Secondary Teaching

Support Courses (3 sh)

- PSY 300 - Learning Processes and Development

University Studies courses as required

Other Requirements

A grade of “C” or higher must be earned in all History, Political Science, Economics, and Science courses required for this major. Fifteen semester hours of the major must be taken at Texas A&M University-Commerce.

Speech Communication – Secondary Certification (Option I)

This plan is for students who wish to be certified to teach speech at the secondary school level (grades 6-12).

Required courses in the major (30 sh)
• SPC 1315 - US - Fundamentals of Speech
  or
• SPC 1321 - US - Business and Professional Speaking

• SPC 112 - Voice and Phonetics
• SPC 317 - Interpersonal Communication
• SPC 318 - Group Process and Decision Making
• SPC 408 - Intercultural Communication
• SPC 412 - Theory of Communication
• SPC 414 - Political Communication

• SPC 312 - Persuasive Communication
  or
• SPC 418 - Communication and Social Change

• THE 211 - Oral Interpretation
  or
• THE 311 - Readers Theatre

Required support courses (6 sh)

• MGT 305 - Management and Organizational Behavior
• JOUR 1307 - Mass Communication in Society

**Theatre Arts – Secondary Teacher Certification**

Required courses in the major (43-44 sh)

• Practicum or Rehearsal and Performance, 6 sh
• SPC 112 - Voice and Phonetics
• THE 211 - Oral Interpretation
• THE 213 - Fundamentals of Acting
• THE 215 - Technical Theatre

• THE 311 - Readers Theatre
  or
• THE 445 - Projects in Acting

• THE 340 - History of the Theatre I
• THE 415 - Stage Directing
• THE 440 - History of the Theatre II
• THE 480 - Lyric Theatre

• THE 489 - Independent Study
  or
The 490H
or
- THE 495 - Senior Theatre Project

Two courses from:

- THE 316 - Lighting for the Theatre
- THE 349 - Theatrical Costuming
- THE 366 - Introduction to Scene Design

Other Requirements

A grade of “C” or higher must be earned in all courses required for this major. Twelve semester hours of advanced major courses must be taken at Texas A&M University-Commerce. Enrollment in practicum is required each semester of attendance at A&M-Commerce unless waived by the head Mass Media, Communication, and Theatre.

Double Major

Agricultural Sciences Double Major

with an emphasis in Agricultural Economics and Economics/Finance

(121 semester hours)

Required courses in the double major (54 sh)

- AEc electives, 6 sh
- Economics Electives, 3 sh (Adv)
- AG 100 - Introduction to Agriculture
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- AEC 219 - Agricultural Economics
- AEC 314 - Farm Management
- AEC 316 - Agricultural Marketing
- AEC 340 - Agricultural Finance
- AEC 360 - Agricultural Law
- AEC 435 - Agricultural Policy
- ECO 2301 - Principles of Macro Economics
- ECO 309 - Economic Forecasting
• ECO 332 - Intermediate Microeconomics
• ECO 428 - International Trade and Finance
• FIN 312 - Money, Banking, and Financial Markets
• ACCT 221 - Principles of Accounting I

Required support courses (24 sh)

• ANS 118 - Introduction to Animal Science
• ANS 307 - Animal Feeding
• MIS 128 - Business Computer Systems
• MATH 176 - Mathematics for Business Applications II
• BA 302 - Business and Economic Statistics
• PLS 115 - Introduction to Plant Science
  or
• PLS 1415 - Introduction to Horticulture
• PLS 309 - Soil Science

University Studies courses (43 sh)

• CHEM 1405 - Survey of General Chemistry
  or
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1407 - Survey of Organic and Biochemistry
  or
• CHEM 1412 - General and Quantitative Chemistry II
• ECO 2302 - Principles of Micro Economics
• ENG 2326 - Introduction to Literature
• SPC 1321 - US - Business and Professional Speaking

Radio Television and Agricultural Sciences Double Major

(121 semester hours)

Required courses in the double major (63 sh)

• 9 sh (Adv) Agricultural Sciences electives
• RTV 220, 319, 320, 321, 322, 430
• AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- ANS 118 - Introduction to Animal Science
- AEC 219 - Agricultural Economics
- PLS 115 - Introduction to Plant Science
- PLS 309 - Soil Science
- RTV 1335 - Introduction to Broadcasting
- RTV 151 - Broadcast Technology
- RTV 215 - Radio-TV Announcing
- RTV 322 - Video Shooting and Editing
- RTV 326 - Radio-Television Commercial Practices
- RTV 451 - Broadcasting Seminar
  or
- RTV 453 - Social Media
- SPC 112 - Voice and Phonetics

Required support courses (12 sh)

- BSC 106 - Human Biology: Man and His Environment
- BSC 1409 - Human Biology: Structure and Function
- RTV 109 - Tapes
- RTV 209 - KKOM News and Programming
- RTV 309 - KETR-FM Practicum
- RTV 409 - Television Practicum

University Studies courses (43 sh)

Required from options

- CHEM 1405 - Survey of General Chemistry
  or
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1407 - Survey of Organic and Biochemistry
  or
- CHEM 1412 - General and Quantitative Chemistry II
- ENG 2326 - Introduction to Literature
- SPC 1321 - US - Business and Professional Speaking

Dual Degree
Engineering with Texas A&M Dual Degree

Texas A&M University-Commerce and Texas A&M University at College Station have a dual degree program agreement allowing students to simultaneously earn bachelor of science degrees with an engineering major from Texas A&M and a major in computer science, mathematics, or physics from A&M-Commerce. Contact the Pre-Engineering advisor for details.

Endorsement

English as a Second Language Endorsement (SHEd)

Requirements

- Student teaching in ESL or one year’s teaching experience in an ESL or bilingual classroom
- Passing the ESL TExES
- ENG 358 - Language and Society

- ENG 301 - Modern Grammar
  or
- ENG 331 - Introduction to Linguistics

- ENG 457 - Teaching English as a Second Language
- ENG 462 - Language Acquisition and Processing

Other Requirements

Students must earn a “B” grade or above in each of the four required courses. Students who have earned one “C” grade are considered to be at risk and may have to retake a course or courses.

Minors

Accounting Minor

(21 Semester Hours)

Requirements

- ECO 2301 - Principles of Macro Economics
- ACCT 221 - Principles of Accounting I
- ACCT 222 - Principles of Accounting II
- ACCT 321 - Intermediate Accounting I
• ACCT 322 - Intermediate Accounting II

Plus 2 courses from:

• ACCT 311 - Managerial Accounting
• ACCT 326 - Microcomputer Applications in Accounting
• ACCT 433 - Internal Control Systems
• ACCT 437 - Government and Not-For-Profit Accounting
• ACCT 440 - Income Tax Accounting

Computer Science and Management Information Systems majors may substitute:

• CSCI 359 - Systems Analysis and Design
• ACCT 433 - Internal Control Systems

Agricultural Economics Minor

(18 Semester Hours)

• AEc electives, 3 sh
• AEC 219 - Agricultural Economics
• AEC 314 - Farm Management
• AEC 316 - Agricultural Marketing
• AEC 340 - Agricultural Finance
• AEC 435 - Agricultural Policy

Agricultural Education Minor

(18 Semester Hours)

• AGED 371 - Agricultural and Youth Leadership
• AGED 404 - Reading in Agricultural and Natural Sciences
• AGED 470 - Methods of Teaching Agricultural Science and Technology
• AGED 471 - The Program of Instruction in Agricultural Science and Technology plus 6 SH from
• AGED 465 - Student Teaching in Agricultural Science and Technology or
• AG 405 - Internship in Agri-Industries
Required Support Courses

3 SH from
- AMC 315 - Agricultural Systems Technology Management
- AMC 424 - Agricultural Safety or
- AMC 428 - Laboratory Management in Agricultural Mechanization If planning to student teach
  Must also complete prerequisites for AGED 465 which include PSY 300, ETEC 424, SED 300.

Animal Science Minor

(19 semester hours)

- ANS 118 - Introduction to Animal Science
- ANS 307 - Animal Feeding
- ANS 310 - Genetics of Livestock Improvement
- ANS 311 - Reproductive Physiology of Domestic Animals
- ANS 319 - Anatomy and Physiology of Domestic Animals

Plus 3 sh from the following:

- ANS 312 - Artificial Breeding of Domestic Animals
- ANS 313 - Dairying
- ANS 411 - Sheep and Goat Management
- ANS 412 - Beef Cattle Management
- ANS 413 - Swine Management
- ANS 415 - Companion Animal Management
- EQSC 441 - Stable Management

Art Minor

A minor in Art may be taken with emphases in Art History, Fine Arts, or Photography. The minor degree plan will be drawn up in consultation with the department head. A minor in Art consists of at least 18 semester hours, including at least 6 advanced hours.

Biological Sciences Minor

(24 Semester Hours)
• BSC 1411 - Botany
• BSC 1413 - Zoology
• BSC 303 - Cell Biology
• BSC 304 - Genetics

Plus 8 sh from:

• BSC 305 - General Physiology
• BSC 306 - Applied Microbiology
• BSC 307 - Ecology

Business Education Minor

In lieu of a minor, students may take the 27 semester hours professional sequence for teacher certification in basic business. In addition, the student will be required to complete BA 125, Elementary Computer Keyboarding and CSci 151, Programming Fundamentals I. Those students choosing teacher certification will be eligible to take the TExES exam in basic business and will then be eligible to teach basic business courses in high school and in middle school.

Requirements

Professional Course Requirements for All-Level Certificate

Chemistry Minor

(28 Semester Hours)

• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• CHEM 201 - Organic Chemistry Tutorial I
• CHEM 202 - Organic Chemistry Tutorial II
• CHEM 211 - Organic Chemistry I
• CHEM 212 - Organic Chemistry II
• CHEM 340 - Quantitative and Instrumental Analysis

Plus 4 sh from the following:

• CHEM 351 - Physical Chemistry I
• CHEM 352 - Physical Chemistry II
• CHEM 414 - Biochemistry
• CHEM 415 - Inorganic Chemistry
• CHEM 441 - Instrumental Analysis

Coaching Athletics Minor

Required courses in the minor (18 sh)

• HHPK 211 - First Aid and Safety
• HHPK 213 - Prevention and Care of Athletic Injuries
• HHPS 210 - Sport Psychology
• HHPH 331 - Nutrition

Plus 2 courses from:

• HHPK 414 - Theory of Coaching Football and Soccer
• HHPK 416 - Theory of Coaching Baseball and Softball
• HHPK 444 - Administration of Kinesiology and Sports Programs
• HHPK 454 - Theory of Coaching Track and Field and Cross Country
• HHPK 455 - Theory of Coaching Basketball and Volleyball

Note

*Refer to prerequisite.

Computer Science Minor

This minor is not available to Computer Science or Computer Information Systems majors.

Required Courses

• from 241 or advanced CSci courses, 9 sh
• CSCI 151 - Programming Fundamentals I
• CSCI 152 - Programming Fundamentals II
• CSCI 270 - Data Structures and Algorithms

Counseling Minor

A minor in counseling consists of the following five courses:
COUN 301 - Orientation to the Counseling Profession
COUN 315 - Philosophy of the Helping Relationship
COUN 317 - Introduction to Assessment
COUN 409 - Group Leadership
COUN 410 - Introduction to Counseling Theory and Methods

Plus 2 courses from:

- COUN 316 - Parent and Family Dynamics
- COUN 412 - Career Development
- COUN 414 - Home and Family Living
- COUN 497 - Special Topics

Criminal Justice Minor

A minor in criminal justice consists of the following (25 sh)

- CJ 101 - Introduction to Criminal Justice
- CJ 201 - Police and Law Enforcement
- CJ 326 - Juvenile Delinquency
- CJ 430 - Courts and Criminal Procedure or CJ 431 - Criminal Law
- CJ 468 - Correctional Systems or CJ 478 - Community-Based Corrections
- SOC 331 - Introduction to Social Research
- SOC 320 - Deviant Behavior
- SOC 332 - Methods of Sociological Analysis

Other Requirements

1. A Grade of "C" or higher must be earned in all Criminal Justice courses required for this major
2. Nine Semester hours of Sociology must be taken at Texas A&M University-Commerce
3. Courses transferred in from a Community College may not count for 300-400 level courses

Economics Minor

Minor in Economics for the business major:

- Adv Eco, 3 sh
- ACCT 222 - Principles of Accounting II
- ECO 309 - Economic Forecasting
- ECO 331 - Intermediate Macroeconomics
- ECO 332 - Intermediate Microeconomics
• FIN 400 - Principles of Investments

Minor in Economics for the non-business major:

• Adv Eco, 6 sh
• ECO 2301 - Principles of Macro Economics
• ECO 2302 - Principles of Micro Economics
• ECO 331 - Intermediate Macroeconomics
• ECO 332 - Intermediate Microeconomics

Engineering and Systems Management Minor

Required Courses

• IE 101 - Introduction to Industrial Engineering
• BA 302 - Business and Economic Statistics
• MGT 305 - Management and Organizational Behavior
• IT 340 - Quality Management and Improvement or MGT 340 - Quality Management and Improvement
• IE 411 - Engineering Management
• IE 444 - Systems Engineering
• IE 486 - Service Systems Analysis

(21 Semester Hours)

Engineering Mathematics Minor

Required Courses

• IE 101 - Introduction to Industrial Engineering
• MATH 2413 - Calculus I
• MATH 192 - Calculus II
• MATH 315 - Differential Equations
• MATH 335 - Linear Algebra
• IE 312 - Industrial Operations Research I
• IE 313 - Industrial Operations Research II
(23 Semester Hours)

**Engineering Statistics Minor**

**Required Courses**

- IE 101 - Introduction to Industrial Engineering
- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- IE 211 - Engineering Probability and Statistics
- IE 311 - Advanced Engineering Statistics
- IE 314 - Statistical Quality Control
- IE 410 - Systems Simulation

(23 Semester Hours)

**English Minor**

**Required courses in the minor (18 sh)**

- Four advanced (300- or 400-level) English courses (six semester hours of advanced English must be taken at A&M-Commerce).
- ENG 2326 - Introduction to Literature
  *Eng 101 and 102 or equivalency are prerequisites for Eng 201.

**Plus 3 sh from:**

- ENG 202 - Multi-Ethnic American Literature
  or
- ENG 2331 - Literature of the Western World

**Other Requirements**
A grade of “C” or higher must be earned in English courses at the 200-level and above to satisfy requirements for this minor. Capstone courses may not be used to satisfy this minor.

Environmental Science Minor

This program allows a student to have a disciplinary major in a wide range of fields plus an Environmental Science minor.

Required courses:

- ENVS 1301 - Introduction to Environmental Science
- ENVS 301 - Risk Assessment and Environmental Impact Statements
- ENVS 302 - Phase I Environmental Site Assessments

Plus three advanced courses from:

- ENVS 305 - Environmental Hydrology
- ENVS 312 - Introduction to Environmental Toxicology
- ENVS 403 - Environmental Ethics and Law
- ENVS 410 - Environmental Monitoring and Waste Management
- BSC 307 - Ecology
- BSC 417 - Geospatial Mapping

Equine Science Minor

Only available with a major in Animal Science

Requirement courses in the major (19 sh)

- EQSC 241 - Advanced Horsemanship
- EQSC 342 - Equine Nutrition
- EQSC 343 - Equine Reproduction
- EQSC 344 - Veterinary Techniques in the Equine
- EQSC 345 - Horse Training
- EQSC 441 - Stable Management

Required support courses (41 sh)

- AEC 219 - Agricultural Economics
- PLS 115 - Introduction to Plant Science
  or
- PLS 1415 - Introduction to Horticulture
- PLS 326 - Forage and Pasture Crops
- AMC 425 - Agricultural Structures and Material Handling Systems
- ANS 118 - Introduction to Animal Science
- ANS 307 - Animal Feeding
- ANS 311 - Reproductive Physiology of Domestic Animals
- CHEM 101 - General Chemistry Tutorial I
- CHEM 102 - General Chemistry Tutorial II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- CHEM 1407 - Survey of Organic and Biochemistry
- AG 405 - Internship in Agri-Industries

Equine Studies Minor

19 semester hours total

Required (10 hrs.)

- EQSC 240 - Intro to Equine Science
- EQSC 241 - Advanced Horsemanship
- EQSC 441 - Stable Management

Choose nine (9) from the following:

- EqSc 340 - Yearling Training
- EqSc 341 - Two-Year-Old Horse Training
- EQSC 342 - Equine Nutrition
- EQSC 343 - Equine Reproduction
- EQSC 344 - Veterinary Techniques in the Equine
- EQSC 345 - Horse Training

Family and Consumer Sciences Minor

Required courses in the minor (18 sh)

- AGED 371 - Agricultural and Youth Leadership
- HHPH 331 - Nutrition
- HHPH 332 - Nutrition in the School and Community
- COUN 316 - Parent and Family Dynamics
Finance Minor

Minor in Finance for the business major (BFin):

- Adv Fin, 6 sh
- ACCT 222 - Principles of Accounting II
- ECO 309 - Economic Forecasting
- FIN 400 - Principles of Investments
- FIN 404 - Advanced Financial Management

Minor in Finance for the non-business major:

- Adv Fin, 3 sh
- ACCT 221 - Principles of Accounting I
- ECO 2301 - Principles of Macro Economics
- ECO 2302 - Principles of Micro Economics
- FIN 304 - Introduction to Business Finance
- FIN 312 - Money, Banking, and Financial Markets
- FIN 400 - Principles of Investments

French Minor

Students may minor in French for the bachelor’s degree by completing eighteen hours of which nine advanced semester hours must be taken at Texas A&M University-Commerce.

Requirements for minor:

Elementary

- FRE 131 - Elementary French I
- FRE 132 - Elementary French II

Intermediate

- FRE 231 - Intermediate French I
- FRE 232 - Intermediate French II
Advanced

- Adv. courses, 12 sh

Notes

Oral proficiency is an integral component of language instruction at Texas A&M-Commerce. Before credit or equivalency is given for a foreign language correspondence course, the student requesting such credit or equivalency must demonstrate satisfactory oral proficiency in the language as determined by the Literature and Languages Department.

Gender Studies Minor

Required Courses

- GDRS 300 - Fundamentals of Gender Studies
- GDRS 400 - Topics in Gender Studies

Total Semester Hours 18

General Business Minor

These provide for broad business topic coverage and are required prerequisites for the MBA program. This minor is not available to business majors.

The minor in general business includes 18 (sh)

- 12 semester hours of advanced business courses are required
- ACCT 221 - Principles of Accounting I
- ECO 2301 - Principles of Macro Economics

The following courses are recommended:

- BA 301 - Legal Environment of Business
- BA 302 - Business and Economic Statistics
- MGT 305 - Management and Organizational Behavior
- MKT 306 - Marketing
Global Studies Minor

Students must complete a total of 18 semester hours in two or more of the areas listed below, and these courses must be outside the student's major.

Required 18 Semester hours

- 9 sh must be at the advanced level
- Maximum of 6 sh in International Studies
- AG 392 - Applied Ethics: U S and World Agriculture
- ANTH 2351 - World Cultures: Perspectives from Anthropology
- ANTH 450 - Gender in Cross-Cultural Perspective
- BA 420 - International Business
- ECO 428 - International Trade and Finance
- ENG 474 - Topics in World Literature
- HIST 265 - A World Divided: Global History
- HIST 375 - Colonial Latin America
- HIST 385 - Latin America in the Modern Period
- PSCI 333 - Non-European Political Systems
- PSCI 437 - Foreign Policy
- PSCI 438 - International Relations
- SOC 335 - Global Social Issues
- SPC 408 - Intercultural Communication
- SPC 418 - Communication and Social Change

Total Semester Hours 18

Health Minor

Required courses in the minor (18 sh)

- HHPH 130 - Introduction to Personal and Community Health
- HHPH 172 - Systems of the Human Body
- HHPH 265 - Substance Use and Abuse
- HHPH 331 - Nutrition
- HHPH 362 - Human Diseases
- HHPK 211 - First Aid and Safety
*Note*

*Refer to prerequisite.

**History Minor**

Required courses in the minor (18 sh)

- HIST 253 - Reading and Writing History
- HIST 305 - World History: Origins through the Seventeenth Century
- HIST 306 - The Emergence of the Modern World

Plus 3 sh Europe:

- HIST 312 - Ancient and Medieval Europe
- HIST 313 - A Feudal Society
- HIST 314 - The European Reformations
- HIST 315 - Early Modern Europe
- HIST 327 - Europe in the Age of Enlightenment and Revolution, 1648-1848
- HIST 329 - Women and Gender in European History

- HIST 333 - Modern Europe, 1848-1991
- HIST 334 - Urban Underworlds: The City and Its People in Modern Europe

Plus 3 sh World, Asia, or Latin America:

- HIST 360 - Themes in World History
- HIST 365 - History of Modern East Asia

- HIST 375 - Colonial Latin America
- HIST 385 - Latin America in the Modern Period

Plus 3 sh U.S.:

- HIST 402 - Colonial North America to 1775
- HIST 403 - Revolutionary America and the Early National United States, 1775-1850
- HIST 404 - Religion in Early American History
- HIST 405 - The Civil War and Reconstruction, 1850-1877
- HIST 407 - Emergence of Modern America, 1850-1920
- HIST 409 - The Twentieth-Century United States
- HIST 411 - Race and Education in the 20th Century US
- HIST 425 - History of the American South

- HIST 437 - American Diplomatic History
  or
- HIST 439 - War in the Modern World

**Other Requirements**

A grade of “C” or better must be earned in all History courses required for this minor. Nine semester hours of history must be taken at A&M-Commerce.

**Human Performance Minor**

**Required courses in the minor (18-20 sh)**

- HHPK 144 - Foundations of Kinesiology
- HHPK 154 - Concepts of Physical Activity
- HHPK 213 - Prevention and Care of Athletic Injuries

**Plus 3 courses from:**

- HHPH 331 - Nutrition
  *
- HHPH 430 - Health Promotion with Special Populations
  *
- HHPK 335 - Kinesiology and Biomechanics
  *
- HHPK 350 - Motor Learning and Motor Control
  *
- HHPK 417 - Measurement and Evaluation
  *
- HHPK 444 - Administration of Kinesiology and Sports Programs
- HHPK 450 - Exercise Physiology
  *

**Note**

*Refer to prerequisites.

**Human Resource Management Minor**
Any student who elects to minor in either human resource management should contact the Department of Marketing and Management.

**Information Technology Minor**

(18 Semester Hours)

**Required courses in the minor:**

- CSCI 131 - Visual Basic Net Programming
- MIS 128 - Business Computer Systems
- MIS 326 - Information Systems Technology Productivity
- MIS 328 - Project Management and Practice
- MIS 422 - Web Based System Development
- MIS 424 - Networking and Telecommunications

**International Business Minor**

The Minor in International Business is an innovative undergraduate program, both interdisciplinary and international in its orientation, offered by the College of Business & Technology at Texas A&M University-Commerce. The International Business minor is designed to broaden the scope of traditional business education and, in a broader sense, it seeks to establish a foundation for increasing students’ awareness of the global competitiveness of American corporations and industries. International business communities are becoming increasingly intertwined, which creates an atmosphere in which long-term strategies and daily management decisions are heavily influenced by such challenging international factors as exchange rates, trade and foreign investment regulations, cross-cultural differences, and the opening of world markets. The International Business minor offers you the opportunity to establish an international business, culture, and language knowledge base which will prepare you to meet global business challenges.

**Required courses (21 sh)**

- ACCT 221 - Principles of Accounting I
- ECO 2301 - Principles of Macro Economics
- BA 420 - International Business
- MKT 467 - Global Consumer Behavior
- ECO 428 - International Trade and Finance

**Plus 6 sh from:**

- up to 6 sh from foreign study programs approved by the major advisor
- SPA 131 - Elementary Spanish I
- SPA 132 - Elementary Spanish II
- PSCI 335 - Political Economy
- ANTH 2351 - World Cultures: Perspectives from Anthropology
International Studies Minor

Required courses*:

- HIST 265 - A World Divided: Global History
- ANTH 2351 - World Cultures: Perspectives from Anthropology
- PSCI 331 - European Political Systems
- PSCI 333 - Non-European Political Systems
  or
- PSCI 438 - International Relations
- BA 420 - International Business
  or
- ECO 428 - International Trade and Finance

Plus 3 sh from:

- HIST 333 - Modern Europe, 1848-1991
- HIST 365 - History of Modern East Asia
- HIST 375 - Colonial Latin America
- HIST 385 - Latin America in the Modern Period

Plus 3 sh from:

(1) two Foreign Language courses or (2) 6 sh from non-U.S. History, non U.S. Political Science, and/or, non-US Geography and/or from foreign study programs sponsored by Texas A&M University-Commerce.

Journalism Minor

A minor in journalism consists of the following 24 semester hours:

- JOUR 115 - Publication Design and Production
- JOUR 214 - Basic Reporting
- JOUR 260 - Advertising Principles
- JOUR 314 - Intermediate Reporting
- JOUR 315 - Editing and Production
- JOUR 335 - Media History
- JOUR 336 - Media Law
Marketing Minor

Any student who elects to minor in marketing should contact the Department of Marketing and Management.

Mathematics Minor

A student in the College of Arts and Sciences who elects a minor in mathematics must complete:

A minimum of 18 sh:

- Math (Adv.), 10 sh
- MATH 2413 - Calculus I
- MATH 192 - Calculus II

Note

Mathematics 301, 350, 351, 361, 362, 372, 380, and 460 may not be used to satisfy mathematics requirements for a major or minor in non-education programs.

Minor in Astronomy

A minor in Astronomy provides another option especially for students majoring in Arts and Social Sciences to get a degree in science that is not math intensive but very interesting and appealing.

Required Courses:

- ASTR 1411 - Astronomy of Solar System
- ASTR 1412 - Introduction to Stars and the Universe
- ASTR 260 - Archaeoastronomy
- ASTR 310 - Observational Astronomy
- ASTR 337 - Introduction to Astrophysics
- PHYS 401 - Current Problems

Total Required Hours: 20

Music Minor
A non-teaching minor in music (18 sh, six of which must be adv.)

- ensemble, 2-3 sh
- piano, 2 sh
- (Adv.) non-applied electives, 3 sh

Theory (4-8 sh)

- MUS 115 - Theory I
- MUS 117 - Ear Training I
- MUS 125 - Theory II
- MUS 127 - Ear Training II

Literature and history (3-6 sh)

- MUS 1308 - Introduction to Music Literature
- MUS 111 - Music Literature, II
- MUS 323 - Music History I
- MUS 324 - Music History II
- MUS 313 - Fundamentals of Conducting

Minor applied (4-6 sh)

- MUS 151 - Minor Applied Music
- MUS 351 - Minor Applied Music

Note

A student must complete at least 12 sh, including the ensemble and upper division hours at TAMU-C.

**Personal Financial Planning Minor**

Required courses:

- ACCT 221 - Principles of Accounting I
- ECO 2301 - Principles of Macro Economics
- FIN 400 - Principles of Investments
- FIN 430 - Financial Planning
- ACCT 440 - Income Tax Accounting
- MGT 438 - Compensation Management
• BA 385 - Principles of Risk and Insurance

Philosophy Minor

Requirements

• Phil, 18 sh (12 advanced)
  • PHIL 2303 - Logic

Photography Minor

(22-24 semester hours)

• Photography courses, 10-12 sh (6 sh Adv), with the exception of Pho 489 and 495
  • PHO 111 - Introduction to Digital Media
  • PHO 280 - Color Photography
    or
  • PHO 250 - Digital Image Manipulation I

Physics Minor

• The 20 semester hours (6 courses) required for a minor in Physics are selected with a view toward contributing to the individual student’s educational goals.

Most physics minors take one of the following tracks:

Non-Calculus:

• 9 sh (Adv) on approval of departmental advisor
  • PHYS 1401 - College Physics
  • PHYS 1402 - College Physics
  • PHYS 132 - Basic Electronics for Scientists and Engineers

Calculus Required:

• PHYS 2425 - University Physics I
  • PHYS 2426 - University Physics II
  • PHYS 317 - Mathematical Physics I
• PHYS 321 - Atomic Physics
• PHYS 333 - Wave Motion, Acoustics, and Optics

Plus 3 sh from:

• PHYS 319 - Scientific Computing
• PHYS 420 - Introduction to Wave Mechanics
• PHYS 430 - Optics
• PHYS 411 - Advanced Mechanics
• PHYS 412 - Advanced Electricity and Magnetism

Electronics and/or Computer Science:

• PHYS 1401 - College Physics
  or
• PHYS 2425 - University Physics I

• PHYS 1402 - College Physics

• PHYS 2426 - University Physics II

• PHYS 132 - Basic Electronics for Scientists and Engineers
• PHYS 332 - Digital Logic and Circuitry

Plus 6 sh (Adv) from:

• PHYS 319 - Scientific Computing
• PHYS 321 - Atomic Physics
• PHYS 333 - Wave Motion, Acoustics, and Optics
• PHYS 397 - Special Topics
• PHYS 432 - Advanced Electronics
• PHYS 492 - Instrumentation and Control

Plant and Soil Science Minor

(20-22 semester hours)

• PLS 115 - Introduction to Plant Science
  or
• PLS 1415 - Introduction to Horticulture

• PLS 309 - Soil Science
• PLS 381 - Crop Physiology

Plus one of the following sequences:

For agronomy students:
• PLS 323 - Field Crops
• PLS 326 - Forage and Pasture Crops
• PLS 420 - Crop Production Practicum

For horticulture students:
• PLS 305 - Landscape Design
• PLS 306 - Plant Propagation
• PLS 430 - Greenhouse Management

For soils students:
• PLS 320 - Soil Fertility and Plant Nutrition
• PLS 321 - Soil Morphology Classification and Mapping
• PLS 420 - Crop Production Practicum

**Political Science Minor**

At least 21 sh political science courses, to include:
• Student’s choosing (excluding PSci 223, 310, 312, 321, 322, 323, 324, 325, 328, 422, 423, 426, 427), 9 sh
• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
• PSCI 330 - Introduction to Political Science
• PSCI 335 - Political Economy

**Pre-Dental Hygiene**

Advisor: John Slovak, Department of Biological and Environmental Sciences, 903-886-5378

The course requirements for entrance into a Dental Hygiene Program vary among the different baccalaureate degree granting institutions. Specific information on the various programs should be directed to a Pre-Dental Hygiene advisor.
The following curriculum is provided for the student's guidance:

Freshman I

- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- CHEM 1405 - Survey of General Chemistry
- CHEM 1407 - Survey of Organic and Biochemistry
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research

Total (22 sh)

Freshman II

- US PE Activity, 2 sh
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1314 - College Algebra
  or
- MATH 1324 - Mathematics for Business Applications

Total (11 sh)

Sophomore I

- ENG 2326 - Introduction to Literature
- ENG 202 - Multi-Ethnic American Literature
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- PSY 2301 - Introduction to Psychology
- SOC 1301 - Introduction to Sociology

Total (18 sh)

Sophomore II

- Electives, 12 sh
- SPC 1311 - US - Studies in Human Communication
A student in the medical pre-professional programs must have a thorough understanding of the basic sciences but also must possess a broad cultural knowledge of the people with whom he/she will work. It is highly recommended that the student entering these programs formulate plans to complete the bachelor’s degree since most professional schools in Texas require a bachelor’s degree. The student should consult with the pre-medical advisor during the freshman year to plan a major and minor. The student should consider alternate career goals in this planning in case admission to medical school is not achieved. The student should plan to take the MCAT or DAT during the spring semester preceding the fall semester that application is made to medical school.

The following curriculum is provided for the student’s guidance:

Freshman

- US PE Activity, 2 sh
- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- MATH 1314 - College Algebra
  or
- MATH 142 - Pre-Calculus
- MATH 2413 - Calculus I
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

Total (39 sh)
Sophomore

- US Soc/Behav Sci, 3 sh
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (33 sh)

Junior

- First Major, 12-16 sh (Adv)***
- US Humanities, 3 Sh
- Second Major, 12-16 sh
- US Vis/Perf Arts, 3 sh (Adv)***

Total (30-38 sh)

Senior

- First Major, 12-16 sh (Adv)
- Second Major, 12-16 sh (Adv)
- US Capstone, 3 sh

Total (27-35 sh)

Total Semester Hours: 129-145

Notes

*Pre-medical students will elect Mathematics 141 and/or 142, and 191.

**Non-biological sciences majors may choose a different biological sciences course upon consultation with advisor.

***First and Second major course requirements will vary depending upon academic discipline selected.
Pre-Engineering

Advisor: Boa-An Li, Physics

The curriculum listed below is equivalent to approximately two years of course work in engineering. The advisor for pre-engineering should be consulted by each student for advisement on an individual program that meets the requirements of the engineering schools in which the student is considering enrolling. Transfer agreements are continuously updated with Texas A&M University to assure guaranteed admission into specific programs at College Station.

The following curriculum is presented for the student’s guidance:

- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II
- ENGR 111 - Foundations of Engineering I
- ENGR 211 - Principles of Engineering I

**Total (30 sh)**

- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- MATH 314 - Calculus III
- MATH 315 - Differential Equations
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research

**Total (25 sh)**

**Total Semester Hours: 69-71**

**Notes**

An additional 18-20 sh will be selected upon advisement from Math 315, 335; Phys 321, 3334; Eco 231; Spc 245; Chem 2114, 2124, Engr 211**.  

*If a student lacks training in algebra and trigonometry in high school, he/she should plan to take Math 141 and 142 prior to enrolling in Math 191.*
Pre-Health Information Management

Advisor: John Slovak, Department of Biological and Environmental Sciences, 903-886-5378

The Health Information Management Program requires a minimum of 64 semester hours in the following prerequisite courses. In addition an overall GPA of 2.0 or better is required in each of the following prerequisite categories: basic sciences, English language, statistics and computer sciences is required. In addition, an overall GPA OF 2.0 or better is required in each of the following prerequisite categories.

The following curriculum is provided for the student’s guidance:

Freshman

- Soc or Psy, 3 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- BSC 1411 - Botany
- BSC 1413 - Zoology
- CSCI 126 - Microcomputer Applications
- CSCI 151 - Programming Fundamentals I
- MIS 128 - Business Computer Systems
- MATH 453 - Essentials of Statistics
  or
- BSC 412 - Quantitative Biology
- BA 302 - Business and Economic Statistics

Total (32 sh)

Sophomore

- Acct, 3 sh
- US Humanities, 3 sh
- Soc or Psy, 3 sh
- ENG 341 - Technical Communication
- SPC 1311 - US - Studies in Human Communication
- BA 345 - Information Management for Business Professionals
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- BSC 2401 - Human Anatomy and Physiology I
• BSC 2402 - Human Anatomy and Physiology II
• MGT 305 - Management and Organizational Behavior
• MGT 394 - Human Resource Management

Total (32 sh)

Total Semester Hours: 64

Notes

*a* Computer Science courses should include one introduction to computers/information systems and one using word processing/spreadsheets/database application.

**BSc 251/252** is a two-semester sequence and both semesters are required, but will count as 4 sh toward the biology prerequisite.

Pre-Law

Advisor: Chad King, Political Science
Collaborating Departments: History, Literature and Languages, Political Science, and Business Administration

There is no specific pre-law curriculum at Texas A&M University-Commerce, and no law school recommends a particular major or minor as preparation for admission. The Statement on Pre-legal Education of the Association of American Law Schools states that “What law schools seek in their entering students is not accomplishment in mere memorization but accomplishment in understanding, the capacity to think for themselves, and the ability to express their thoughts with clarity and force.” The pre-law student therefore should strive to achieve comprehension and skill in the English language, insights into the human institutions and values with which the law deals, and the power to think clearly carefully, and independently. Since these skills are nurtured by the general education requirements, the beginning pre-law student must make it a priority during the first two years of undergraduate education to complete these requirements.

Aside from the courses in general education requirements, pre-law students should consider taking courses in political science, economics, philosophy (especially logic), history, English, statistics, computer science, accounting, and general business.

Pre-law students are strongly recommended to major in Political Science, History, English, Philosophy, and Economics. It is also recommended that a second major or minor, as well as electives, should be chosen from the subject-matter areas listed above.

A bachelor’s degree is required for admission to most accredited law schools. Since admissions to law schools are highly competitive, the pre-law student must have an acceptable score (preferably 150-180) on the Law School Admissions Test (LSAT), and, in most cases, an accumulative grade point average of 3.5 or better. The LSAT should be taken in June or October of the year before the student plans to enter law school. Applications to law school, together with test scores, transcripts, and recommendations, should be submitted to law schools no later than January 1 of the year the student plans to begin law school.

Before deciding on a pre-law course of study, the student should consult with the pre-law advisor.

Pre-Medical Chemistry Major and Second Major in Biology
Required courses in the major (36 sh)

- Chem, 4 sh (Adv)
- CHEM 101 - General Chemistry Tutorial I
- CHEM 102 - General Chemistry Tutorial II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- CHEM 201 - Organic Chemistry Tutorial I
- CHEM 202 - Organic Chemistry Tutorial II
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- CHEM 340 - Quantitative and Instrumental Analysis
- CHEM 351 - Physical Chemistry I
- CHEM 401 - Chemical Science and Profession
- CHEM 418 - Undergraduate Research

Required support courses (44 sh)

- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II
- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- BSC 304 - Genetics
- BSC 305 - General Physiology
- BSC 306 - Applied Microbiology
- BSC 307 - Ecology

SUGGESTED CURRICULUM OUTLINE (B.S.)

Freshman

- CHEM 101 - General Chemistry Tutorial I
- CHEM 102 - General Chemistry Tutorial II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 2413 - Calculus I
- MATH 192 - Calculus II

Total (30 sh)

Sophomore

- CHEM 201 - Organic Chemistry Tutorial I
- CHEM 202 - Organic Chemistry Tutorial II
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- CHEM 340 - Quantitative and Instrumental Analysis
- BSC 1411 - Botany
- BSC 1413 - Zoology

- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking

- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II

Total (33 sh)

Junior

- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- US PE Activity, 2 sh
- CHEM 351 - Physical Chemistry I
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- BSC 305 - General Physiology

Total (30 sh)

Senior

- Chem, 4 sh (Adv)
- BSc (Adv)
• Stats Elective
• US Soc/Behav Sci, 3 sh
• CHEM 401 - Chemical Science and Profession
• CHEM 414 - Biochemistry
• CHEM 418 - Undergraduate Research
• BSC 306 - Applied Microbiology
• BSC 307 - Ecology

Total (28 sh)

Total Semester Hours: 121

Pre-Medical Technology

Advisor: John Slovak, Department of Biological and Environmental Sciences, 903-886-5378

Upon the successful completion of the following recommended course of study, the student should apply to a school certified by the American Society of Clinical Pathologists. Several possible options exist for students interested in pursuing a medical technology program. Upon entering A&M-Commerce a student should consult with the medical technology program advisers.

Required courses in the major, minor or specialization (33 sh)

• BSC 1406 - Introductory Biology I
• BSC 1407 - Introductory Biology II
• BSC 254 - General Microbiology
• BSC 303 - Cell Biology
• BSC 305 - General Physiology
• BSC 306 - Applied Microbiology
• BSC 420 - Immunology
• BSC 422 - Comparative Vertebrate Anatomy
• BSC 430 - Topics in Microbiology

Required support courses (28 sh)

• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II
• CHEM 211 - Organic Chemistry I
• CHEM 212 - Organic Chemistry II
• CHEM 340 - Quantitative and Instrumental Analysis
• PHYS 1401 - College Physics
• PHYS 1402 - College Physics
The following general curriculum is presented for the student’s guidance:

Freshman

- BSC 1411 - Botany
- BSC 1413 - Zoology
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- MATH 1314 - College Algebra
- MATH 142 - Pre-Calculus
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

Total (34 sh)

Sophomore

- BSC 254 - General Microbiology
- BSC 303 - Cell Biology
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- ENG 2326 - Introduction to Literature
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics
- SPC 1311 - US - Studies in Human Communication
- SPC 1321 - US - Business and Professional Speaking

Total (36 sh)

Junior

- BSC 305 - General Physiology
- BSC 306 - Applied Microbiology
- BSC 420 - Immunology
- BSC 422 - Comparative Vertebrate Anatomy
- BSC 430 - Topics in Microbiology
• CHEM 340 - Quantitative and Instrumental Analysis

Total (21 sh)

Total Semester Hours: 91

Pre-Nursing

Required courses in the major, minor or specialization (12 sh)

• BSC 2401 - Human Anatomy and Physiology I
• BSC 2402 - Human Anatomy and Physiology II
• BSC 254 - General Microbiology

Required support courses (8 sh)

• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II

The following curriculum is presented for the student’s guidance:

Freshman I

• US PE Activity, 2 sh
• ENG 1301 - College Reading and Writing
• ENG 1302 - Written Argument and Research
• HIST 1301 - US History to 1877
• HIST 1302 - US History from 1865
• PSY 2301 - Introduction to Psychology
• PSY 319 - Child Growth and Development

Total (20 sh)

Freshman II

• MATH 1314 - College Algebra
- MATH 453 - Essentials of Statistics
  or
- PSY 302 - Psychological Statistics: Descriptive and Inferential
- BSC 2401 - Human Anatomy and Physiology I
- BSC 2402 - Human Anatomy and Physiology II

Total (14 sh)

Sophomore I

- ENG 2326 - Introduction to Literature
- ENG 202 - Multi-Ethnic American Literature
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SOC 1301 - Introduction to Sociology
- SOC 1306 - Social Problems

Total (18 sh)

Sophomore II

- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- BSC 254 - General Microbiology
- HHPH 331 - Nutrition

Total (15 sh)

Total Semester Hours: 67

Pre-Optometry

Advisor: John Slovak, Department of Biological and Environmental Sciences, 903-886-5378

After completion of the suggested program outlined below, the student should apply to a school offering a degree in optometry. The student should consult the catalog of the optometry school of interest in order to insure that all admission requirements to that school have been met.

Required courses in the major, minor or specialization (24 semester hours)
- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- BSC 2401 - Human Anatomy and Physiology I
- BSC 2402 - Human Anatomy and Physiology II
- BSC 254 - General Microbiology
- BSC 305 - General Physiology

Required support courses (24 semester hours)

- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics
- PSY 302 - Psychological Statistics: Descriptive and Inferential

The suggested pre-professional program is outlined below:

**Freshman**

- US PE Activity, 2 sh
- BSC 1411 - Botany
- BSC 1413 - Zoology
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- MATH 1314 - College Algebra
- MATH 142 - Pre-Calculus

Total (36 sh)

**Sophomore**

- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics
- BSC 2401 - Human Anatomy and Physiology I
- BSC 2402 - Human Anatomy and Physiology II
- BSC 254 - General Microbiology
- PSY 2301 - Introduction to Psychology
- PSY 302 - Psychological Statistics: Descriptive and Inferential

Total (34 sh)

Junior

- CHEM 351 - Physical Chemistry I
- CHEM 414 - Biochemistry
- BSC 305 - General Physiology
- MATH 2413 - Calculus I
- MATH 192 - Calculus II
- ENG 2326 - Introduction to Literature
- ENG 202 - Multi-Ethnic American Literature
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (30 sh)

Total Semester Hours: 100

Pre-Osteopathy

Advisor: John Slovak, Department of Biological and Environmental Sciences, 903-886-5378

A student in the medical pre-professional programs must have a thorough understanding of the basic sciences but also must possess a broad cultural knowledge of the people with whom he/she will work. It is highly recommended that the student entering these programs formulate plans to complete the bachelor’s degree since most professional schools in Texas require a bachelor’s degree. The student should consult with the pre-medical advisor during the freshman year to plan a major and minor. The student should consider alternate career goals in this planning in case admission to medical school is not achieved. The student should plan to take the MCAT or DAT during the spring semester preceding the fall semester that application is made to medical school.

The following curriculum is provided for the student's guidance:

Freshman

- US PE Activity, 2 sh
- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- MATH 1314 - College Algebra
  or
- MATH 142 - Pre-Calculus
- MATH 2413 - Calculus I
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

Total (39 sh)

Sophomore

- US Soc/Behav Sci, 3 sh
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- PHYS 2425 - University Physics I
- PHYS 2426 - University Physics II
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (33 sh)

Junior

- First Major, 12-16 sh (Adv)***
- US Humanities, 3 Sh
- Second Major, 12-16 sh
- US Vis/Perf Arts, 3 sh (Adv)***
Total (30-38 sh)

Senior

- First Major, 12-16 sh (Adv)
- Second Major, 12-16 sh (Adv)
- US Capstone, 3 sh

Total (27-35 sh)

Total Semester Hours: 129-145

Notes

*Pre-medical students will elect Mathematics 141 and/or 142, and 191.

**Non-biological sciences majors may choose a different biological sciences course upon consultation with advisor.

***First and Second major course requirements will vary depending upon academic discipline selected.

Pre-Pharmacy

Advisor: John Slovak, Department of Biological and Environmental Sciences, 903-886-5378, or the Department of Chemistry at 903-886-5392.

Pre-Pharmacy students usually take two years of general education and basic sciences courses and then transfer to a pharmacy school for three additional years of study to complete the degree. Requirements for admission differ among the various pharmacy schools. The student should obtain a catalog from the pharmacy school of his or her choice and consult the pre-pharmacy advisor.

The following general curriculum is presented for the student’s guidance:

Freshman I

- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- MATH 1314 - College Algebra
  or
- MATH 142 - Pre-Calculus
- MATH 2413 - Calculus I
Total (22 sh)

Freshman II

- PE Activity, 2 sh
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- ECO 2301 - Principles of Macro Economics

Total (11 sh)

Sophomore I

- BSC 254 - General Microbiology
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics

Total (26 sh)

Sophomore II

- Elective, 3 sh
- PE Activity, 2 sh
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- ENG 2326 - Introduction to Literature
- MATH 453 - Essentials of Statistics
  or
- BA 302 - Business and Economic Statistics

Total (15 sh)

Total Semester Hours: 74
Notes

*Two Texas pharmacy schools require 3 sh of calculus.

Pre-Physical Therapy

Advisor: John Slovak, Department of Biological and Environmental Sciences, 903-886-5378

A student undertaking the pre-professional physical therapy program must have a thorough understanding of the basic sciences, including the evaluation, maintenance, and improvement of the functions of the musculoskeletal, neuromuscular, cardiovascular, and respiratory systems of humans. In addition, good communication skills are needed to relay instruction of treatments to patients, families and support personnel as well as other health care professionals. The student should develop a broad cultural knowledge in order to work with a broad spectrum of patients.

The following curriculum is provided for the student's guidance:

Freshman

- US PE Activity, 2 sh
- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- MATH 1314 - College Algebra
  or
- MATH 142 - Pre-Calculus
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865

Total (36 sh)

Sophomore

- US Soc/Behav Sci, 3 sh
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- CHEM 211 - Organic Chemistry I
- CHEM 212 - Organic Chemistry II
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics
- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies

Total (33 sh)

Junior

- US Humanities, 3 sh
- US Vis/Perf Arts, 3 sh
- BSC 305 - General Physiology
- BSC 422 - Comparative Vertebrate Anatomy
- CHEM 340 - Quantitative and Instrumental Analysis

12 sh (6 sh Adv) from:

- HHPK 154 - Concepts of Physical Activity
- HHPK 211 - First Aid and Safety
- HHPK 213 - Prevention and Care of Athletic Injuries
- HHPK 274 - Adapted Physical Education
- HHPK 335 - Kinesiology and Biomechanics
- HHPH 331 - Nutrition

Total (29 sh)

Senior

- BSc, 2 Adv. Courses
- US Capstone, 3 sh
- PSY 302 - Psychological Statistics: Descriptive and Inferential
- PSY 322 - Understanding Human Development
- PHYS 319 - Scientific Computing

- CSCI 126 - Microcomputer Applications
  or
- CSCI 151 - Programming Fundamentals I
Total (24 sh)

Total Semester Hours: 122

Notes

Psy 131 and Soc 111 are required. Also one course in medical terminology is required. The pre-physical therapy program leads to a degree in broadfield science which the professional schools prefer.

Pre-Physician’s Assistant

Advisor: John Slovak, Department of Biological and Environmental Sciences, 903-886-5378

The Physician’s Assistant Program requires two years of undergraduate training to gain admission to the School of Allied Health Professions, Southwest Medical School in Dallas; School of Allied Health Sciences, University of Texas Medical Branch in Galveston; and Baylor College of Medicine in Houston. Completion of the program may lead to a baccalaureate degree in health care sciences, certification as a physician’s assistant, and eligibility to write the National Certification Examination administered by the National Board of Medical Examiners.

Required courses in the major, minor or specialization (12 sh)

- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- BSC 2401 - Human Anatomy and Physiology I

Required support courses (12 sh)

- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- CHEM 211 - Organic Chemistry I

The following curriculum is provided for the student’s guidance:

Freshman I

- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- PSY 2301 - Introduction to Psychology
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1412 - General and Quantitative Chemistry II
- SPC 1311 - US - Studies in Human Communication
  or
- SPC 1321 - US - Business and Professional Speaking

Total (20 sh)

Freshman II

- US PE Activity, 2 sh
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- BSC 1411 - Botany
- MATH 1314 - College Algebra

Total (15 sh)

Sophomore I

- BSC 1413 - Zoology
- BSC 2401 - Human Anatomy and Physiology I
- PHIL 2303 - Logic
- SPA 131 - Elementary Spanish I
- SPA 132 - Elementary Spanish II
- CHEM 211 - Organic Chemistry I

Total (21 sh)

Sophomore II

- PSCI 2301 - Principles of United States and Texas Government
- PSCI 2302 - United States and Texas Government: Institutions and Policies
- SOC 1301 - Introduction to Sociology
- SOC 1306 - Social Problems
- PSY 322 - Understanding Human Development

Total (15 sh)
Total Semester Hours: 71

Pre-Veterinary Medicine

Advisor: David B. Crenshaw, Agricultural Sciences

A total of at least 84 semester hours must be completed before entry into the Professional Veterinary Program. In addition, large animal experience is required. The two animal science courses listed in the freshman year will document this experience. The veterinary program is the most competitive of any professional program. Thus, it is highly recommended that a major be selected in the event that admission into the program is denied. Regular consultation with the Pre-Veterinary advisor is encouraged.

The suggested pre-professional program is outlined below:

Freshman

- ANS 118 - Introduction to Animal Science
- ANS 317 - Livestock Management Techniques
- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- HIST 1301 - US History to 1877
- HIST 1302 - US History from 1865
- ENG 1301 - College Reading and Writing
- ENG 1302 - Written Argument and Research
- MATH 2413 - Calculus I
  or
- MATH 176 - Mathematics for Business Applications II

Total (30 sh)

Sophomore

- SPC 1321 - US - Business and Professional Speaking
- ENG 2326 - Introduction to Literature
- ENG 202 - Multi-Ethnic American Literature
  or
- ENG 2331 - Literature of the Western World
- ENG 341 - Technical Communication
- PHYS 1401 - College Physics
- PHYS 1402 - College Physics
• CHEM 101 - General Chemistry Tutorial I
• CHEM 102 - General Chemistry Tutorial II
• CHEM 1411 - General and Quantitative Chemistry I
• CHEM 1412 - General and Quantitative Chemistry II

• ANS 307 - Animal Feeding
  or
• ANS 407 - Animal Nutrition

• ANS 310 - Genetics of Livestock Improvement

Total (33 sh)

Junior

• CHEM 201 - Organic Chemistry Tutorial I
• CHEM 202 - Organic Chemistry Tutorial II
• CHEM 211 - Organic Chemistry I
• CHEM 212 - Organic Chemistry II
• BSC 303 - Cell Biology
• BSC 306 - Applied Microbiology
• BSC 422 - Comparative Vertebrate Anatomy
• AG 497 - Special Topics
  when offered as Biochemistry and Nutritional Biochemistry

Total (28 sh)

Total Semester Hours: 91

Psychology Minor

Required courses

• PSY 2301 - Introduction to Psychology
• PSY 316 - Abnormal Psychology
• PSY 317 - Psychology of Personality
• PSY 322 - Understanding Human Development
• PSY 403 - Development of Modern Psychology
Plus 9 sh from:

- PSY 214 - Aspects of Psychology
- PSY 2306 - Psychology of Sexual Behavior
- PSY 302 - Psychological Statistics: Descriptive and Inferential
- PSY 305 - Experimental Psychology
- PSY 315 - Physiological Psychology
- PSY 319 - Child Growth and Development
- PSY 321 - Psychology of Adolescence
- PSY 323 - Health Psychology
- PSY 327 - Cognitive Social Psychology
- PSY 350 - Cognition Psychology
- PSY 404 - Organizational Psychology
- PSY 409 - Group Processes: The Psychology of Groups

Public Relations Minor

Required courses in the minor (18 semester hours)

- JOUR 115 - Publication Design and Production
- JOUR 260 - Advertising Principles
- JOUR 328 - Public Relations Principles
- JOUR 329 - Writing for Public Relations
- JOUR 425 - Public Relations Case Studies
- JOUR 426 - Public Relations Campaigns

Plus 6 sh from:

- JOUR 315 - Editing and Production
- JOUR 335 - Media History
- JOUR 350 - Visual Communication for News Publications
- JOUR 445 - Ethics in the Media

Radio-Television Minor

Required courses in the minor (22 sh)
- Practicum required each semester of enrollment in an RTV course with a minimum of 4 sh (2 sh in Radio, 2 sh in Television)
- RTV 1335 - Introduction to Broadcasting
- RTV 151 - Broadcast Technology
- RTV 215 - Radio-TV Announcing
- RTV 221 - Radio Production
- RTV 322 - Video Shooting and Editing
- RTV 440 - News Practices

Social Welfare Minor

A minor in social welfare is a good choice for persons majoring in related disciplines who may wish to work in health or human services settings. This minor does not qualify a person to practice social work, or become licensed as a social worker.

Required courses in the minor (18 sh)

- SWK 225 - Introduction to Social Work
- SWK 250 - Foundations of Social Work Practice
- SWK 275 - Human Behavior and the Social Environment I
- SWK 322 - Human Behavior and the Social Environment II
- SWK 328 - Social Welfare Policy and Services

Plus 3 sh from:

- SWK 360 - Human Service Careers with Children
- SWK 361 - Issues in Family Treatment
- SWK 362 - Child Welfare

Sociology Minor

A minor of 18 sh in Sociology is available.

Required Courses

- 12sh of Advanced SOC courses
- SOC 1301 - Introduction to Sociology
- SOC 1306 - Social Problems

Other Requirements

1. A Grade of "C" or higher must be earned in all Criminal Justice courses required for this major
2. Nine Semester hours must be taken at Texas A&M University-Commerce
3. Courses transferred in from a Community College may not count for 300-400 level courses

**Spanish Minor**

**Required courses in the minor (21* sh)**

- Spanish, 6 sh advanced (300-400 level)
- SPA 231 - Intermediate Spanish I
- SPA 232 - Intermediate Spanish II
- SPA 331 - Spanish Conversation for Oral Proficiency or
- SPA 333 - Spanish for Heritage Speakers I (for heritage speakers)
- SPA 332 - Spanish Composition and Grammar or
- SPA 334 - Spanish for Heritage Speakers II (for heritage speakers)
- SPA 341 - Introduction to Spanish Literature

**Notes**

Note: Spa 335—Spanish for TOPT does not count toward the minor.

*Prerequisites: Spa 131 and 132 or equivalency.

**Other Requirements**

A grade of “C” or higher must be earned in all Spanish courses required for this minor. Nine semester hours of advanced (300-level or above) Spanish must be taken at Texas A&M University-Commerce.

**Speech Communication Minor**

**Required courses in the minor (21 sh)**

- SPC 1315 - US - Fundamentals of Speech or
- SPC 1321 - US - Business and Professional Speaking
- SPC 112 - Voice and Phonetics
- SPC 312 - Persuasive Communication
SPC 317 - Interpersonal Communication
SPC 412 - Theory of Communication
SPC 318 - Group Process and Decision Making
or
SPC 418 - Communication and Social Change

Teaching English as a Second Language Minor

Required courses in the minor (18 sh)

- SPA 231 - Intermediate Spanish I
  or
- FRE 231 - Intermediate French I
- SPA 232 - Intermediate Spanish II
  or
- FRE 232 - Intermediate French II
- ENG 301 - Modern Grammar
- ENG 358 - Language and Society
- ENG 457 - Teaching English as a Second Language
- ENG 462 - Language Acquisition and Processing

Theatre Minor

Required courses in the minor (25-26 sh)

- in Electives (Adv), 6 sh
- 4 sh Practicum
- THE 415 - Stage Directing

Plus 6 sh from:

- THE 1310 - Introduction to the Theatre
- THE 340 - History of the Theatre I
  or
- THE 440 - History of the Theatre II

Plus 3 sh from:
• THE 213 - Fundamentals of Acting
• THE 315 - Stage Dialects
  or
• THE 445 - Projects in Acting

Plus 3 sh from:

• THE 215 - Technical Theatre
• THE 316 - Lighting for the Theatre
• THE 218 - Stage Make-up
  or
• THE 349 - Theatrical Costuming

Writing Minor

Non-English majors may minor in writing. An eighteen-semester-hour emphasis, in which at least nine semester hours of advanced coursework must be taken at Texas A&M University-Commerce.

Includes the following requirements:

• ENG 333 - Advanced Writing: Non-Fiction
• ENG 341 - Technical Communication

Plus 6 sh from:

• ENG 315 - Advanced Writing: Creative Writing
• ENG 317 - Word Building
• ENG 332 - Pre-Law Composition
• PHIL 2303 - Logic

Plus 3 sh from:

• ENG 331 - Introduction to Linguistics
• ENG 358 - Language and Society
• ENG 424 - Development of the English Language

Plus 3 sh from:

• JOUR 214 - Basic Reporting
• JOUR 314 - Intermediate Reporting
Other Requirements

A grade of “C” or higher must be earned in these courses to satisfy requirements for the minor.

Requirements

Professional Course Requirements for All-Level Certificate

Before participating in the Residency Semester, the candidate must have completed the following courses:

- ELED 300 - Introduction to Teaching
- SED 300 - The Teaching Profession
- PSY 300 - Learning Processes and Development
- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
- RDG 370 - Reading and Literacy II
  or
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools

Residency Semester

- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- ELED 452 - Student Teaching in Field-Based Teacher Education Programs
- SED 405 - Residency in Secondary Teaching

Professional Course Requirements Secondary Certificate

Before participating in the Residency Semester, the candidate must have completed the following courses:

- SED 300 - The Teaching Profession
- PSY 300 - Learning Processes and Development
- ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum
  (Optional: contact teaching field department)
- RDG 380 - Comprehension and Vocabulary in Middle and High Schools

**Residency Semester**

- SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments
- SED 404 - Internship in Secondary Teaching
- SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments
- SED 405 - Residency in Secondary Teaching

**Second Major**

**Agriculture Second Major**

**Required courses in the second major (27 sh)**

- ANS 118 - Introduction to Animal Science
- ANS 317 - Livestock Management Techniques
- AEC 219 - Agricultural Economics
- AG 100 - Introduction to Agriculture
- AG 300 - Agricultural Communications Seminar
- AG 392 - Applied Ethics: U S and World Agriculture
- AG 400 - Seminar
- AMC 315 - Agricultural Systems Technology Management
- PLS 115 - Introduction to Plant Science
  or
- PLS 1415 - Introduction to Horticulture
- PLS 309 - Soil Science

**University Studies courses (43 sh)**

- CHEM 1405 - Survey of General Chemistry
  or
- CHEM 1411 - General and Quantitative Chemistry I
- CHEM 1407 - Survey of Organic and Biochemistry
  or
- CHEM 1412 - General and Quantitative Chemistry II
- MATH 1314 - College Algebra
  or
Biological Sciences Second Major

Required Courses:

- BSc courses, 3 sh (Adv)
- BSC 1406 - Introductory Biology I
- BSC 1407 - Introductory Biology II
- BSC 303 - Cell Biology
- BSC 304 - Genetics
- BSC 305 - General Physiology
- BSC 306 - Applied Microbiology
- BSC 307 - Ecology

Computer Information Systems Second Major

This second major is not available to Computer Science or Computer Information Systems majors.

Required courses in the second major (24 sh)

- Adv. CSci courses, 6 sh
- CSCI 151 - Programming Fundamentals I
- CSCI 152 - Programming Fundamentals II
- CSCI 241 - Machine Language and Computer Organization
- CSCI 270 - Data Structures and Algorithms
- CSCI 428 - Object Oriented Programming
  or
- CSCI 431 - Java Language Programming
- CSCI 340 - Introduction to Database

Computer Science Second Major

This second major is not available to Computer Science or Computer Information Systems majors. Requirements for the second major are the same as those for the first major, Computer Science B.S. including required support courses.

Criminal Justice Second Major

Students choosing a second major in Criminal Justice must complete minimum of 34 semester hours, including 24 advanced hours.
Complete the following courses:

- CJ 101 - Introduction to Criminal Justice
- CJ 201 - Police and Law Enforcement
- CJ 326 - Juvenile Delinquency
- CJ 330 - Crime and Criminology
- CJ 301 - Criminal Investigation
- CJ 430 - Courts and Criminal Procedure or CJ 431 - Criminal Law
- CJ 468 - Correctional Systems or CJ 478 - Community-Based Corrections
- CJ 470 - Criminal Justice Internship I or CJ 480 - Senior Seminar in Criminal Justice
- SOC 331 - Introduction to Social Research
- SOC 332 - Methods of Sociological Analysis
- SOC 320 - Deviant Behavior or SOC 370 - Minority Groups

Other Requirements

1. A Grade of “C” or higher must be earned in all courses required for the second major.
2. Fifteen Semester hours of Criminal Justice courses must be taken at Texas A&M University-Commerce.
3. Courses transferred in from a Community College may not count for 300-400 level course.

English Second Major

Required courses for second major (24 sh)

- Six advanced (300-400 level) English courses (18 sh)
- Four courses (12-14 sh) in a foreign language or equivalent are strongly recommended.

Students who are considering teaching in high schools or middle schools should follow the course requirements for English or language arts teacher certification. Capstone courses do not count toward the second major.

- ENG 2326 - Introduction to Literature
  Eng 101 and 102 or equivalency are prerequisites for Eng 201.

Plus 3 sh from:

- ENG 202 - Multi-Ethnic American Literature
  or
- ENG 2331 - Literature of the Western World

Other Requirements

A grade of “C” or higher must be earned in all English courses required for this second major. Twelve semester hours of Advanced English (300-level or above) must be taken at Texas A&M University-Commerce.
Notes

*This program is not an option for secondary certification, option II, English majors.* Students electing English as a second major should consult with the head of the department of Literature and Languages. Recommendations in course selection will be based on the specific uses the student will make of the second major (e.g., in preparation for graduate study in literature or language or in preparation for the GRE, MCAT, or other professional school entrance examinations).

**History Second Major**

**Required courses in the major (30 sh)**

- HIST 253 - Reading and Writing History
- HIST 305 - World History: Origins through the Seventeenth Century
- HIST 306 - The Emergence of the Modern World
- HIST 360 - Themes in World History

**Plus 3 sh Europe:**

- HIST 312 - Ancient and Medieval Europe
- HIST 315 - Early Modern Europe
- HIST 327 - Europe in the Age of Enlightenment and Revolution, 1648-1848
  or
- HIST 333 - Modern Europe, 1848-1991

**Plus 3 sh Asia or Latin America:**

- HIST 365 - History of Modern East Asia
- HIST 375 - Colonial Latin America
  or
- HIST 385 - Latin America in the Modern Period

**Plus 3 sh U.S.:**

- HIST 402 - Colonial North America to 1775
- HIST 403 - Revolutionary America and the Early National United States, 1775-1850
- HIST 407 - Emergence of Modern America, 1850-1920
- HIST 409 - The Twentieth-Century United States

**Plus 3 sh focused study in European History:**
• HIST 313 - A Feudal Society
• HIST 314 - The European Reformations
• HIST 329 - Women and Gender in European History
• HIST 334 - Urban Underworlds: The City and Its People in Modern Europe

Plus 3 sh from focused study in U.S. history:

• HIST 404 - Religion in Early American History
• HIST 405 - The Civil War and Reconstruction, 1850-1877
• HIST 411 - Race and Education in the 20th Century US
• HIST 425 - History of the American South

• HIST 437 - American Diplomatic History
  or
• HIST 439 - War in the Modern World

Plus 3 sh from:

• any 300- or 400-level History course

Other Requirements

A grade of “C” or higher must be earned in all History courses required for this major. Fifteen semester hours of History must be taken at Texas A&M University-Commerce.

Journalism Second Major

Course requirements for a second major in journalism (news-editorial or public relations) are the same as for the first major. Substitutions for course requirements may be made with the approval of the journalism division coordinator.

Mathematics Second Major

Selection of courses should be determined by the student’s interests. More than eight courses is strongly recommended, especially for those students who plan to do graduate study in mathematics. Please consult mathematics staff members for advice.

(24 semester hours)

• MATH 2413 - Calculus I
• MATH 192 - Calculus II
• MATH 314 - Calculus III

Plus 12 sh chosen from:
• MATH 315 - Differential Equations
• MATH 317 - Numerical Analysis
• MATH 321 - College Geometry
• MATH 331 - Discrete Mathematics
• MATH 334 - Introduction to Abstract Algebra
• MATH 335 - Linear Algebra
• MATH 401 - Introduction to Mathematical Statistics
• MATH 426 - History of Mathematics
• MATH 436 - Introduction to Analysis
• MATH 437 - Elementary Number Theory
• MATH 438 - Complex Analysis
• MATH 440 - Introduction to Topology
• MATH 453 - Essentials of Statistics

**Photography Second Major**

(57-58 semester hours)

• Requirements for a second major in Photography are the same as for the first major, Photography B.A.

**Physics Second Major**

A student who elects a second major in physics must complete a minimum of eight courses including four advanced courses. The student will consult the department head to choose the specific courses to fit his/her needs and interests.

**Political Science Second Major**

**Required courses in the second major (30 sh)**

• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
• PSCI 330 - Introduction to Political Science
• PSCI 335 - Political Economy
• PSCI 488 - Contemporary Ideas

**Political Theory and Philosophy 1 course from:**

• PSCI 332 - Democracy and Democratization
• PSCI 410 - European Political Theory I
• PSCI 411 - European Political Theory II
• PSCI 412 - European Political Theory III
• PSCI 430 - Revolutions and Revolutionary Movements

Public Policy 1 course from:

• PSCI 342 - Introduction to Global Public Policy
• PSCI 346 - Introduction to Public Policy
• PSCI 437 - Foreign Policy
• PSCI 442 - Constitutional Law
• PSCI 443 - Civil Liberties and Civil Rights

American Political Institutions and Processes 1 course from:

• PSCI 341 - The American Presidency
• PSCI 342 - Introduction to Global Public Policy
• PSCI 344 - American Political Parties and Electoral Politics
• PSCI 345 - Public Opinion
• PSCI 441 - Congressional Politics
• PSCI 442 - Constitutional Law
• PSCI 443 - Civil Liberties and Civil Rights

Comparative Politics 1 course from:

• PSCI 331 - European Political Systems
• PSCI 332 - Democracy and Democratization
• PSCI 333 - Non-European Political Systems

International Relations 1 course from:

• PSCI 333 - Non-European Political Systems
• PSCI 430 - Revolutions and Revolutionary Movements
• PSCI 437 - Foreign Policy
• PSCI 438 - International Relations

Paralegal Studies Emphasis

Required courses in the major (33 sh)

• PSCI 2301 - Principles of United States and Texas Government
• PSCI 2302 - United States and Texas Government: Institutions and Policies
• PSCI 222 - Introduction to Law
• PSCI 223 - Legal Research
• PSCI 310 - Law Office Management
• PSCI 322 - Civil Procedure
• PSCI 426 - Paralegal Internship
• PSCI 427 - Torts and Personal Injury Law

9 sh from the following, 6 sh must be PS-E

• PSCI 312 - Bankruptcy for Paralegals
• PSCI 321 - Probate
• PSCI 323 - Business Law for Paralegals
• PSCI 324 - Criminal Law and Procedure
• PSCI 325 - Family Law
• PSCI 328 - Real Estate Law for Paralegals
• PSCI 422 - Trial and Appellate Litigation and Procedure
• PSCI 442 - Constitutional Law
• PSCI 443 - Civil Liberties and Civil Rights

Spanish Second Major

Students who are considering teaching in high schools or middle schools and plan to pursue emergency permits should follow the course requirements for English or language arts teacher certification.

Required courses in the major (33 sh)

• Spanish, 9 sh advanced (300-400 level)
• SPA 131 - Elementary Spanish I
• SPA 132 - Elementary Spanish II
• SPA 231 - Intermediate Spanish I
• SPA 232 - Intermediate Spanish II

• SPA 331 - Spanish Conversation for Oral Proficiency or
• SPA 333 - Spanish for Heritage Speakers I (for heritage speakers)

• SPA 332 - Spanish Composition and Grammar or
• SPA 334 - Spanish for Heritage Speakers II (for heritage speakers)

• SPA 341 - Introduction to Spanish Literature
• SPA 485 - Seminar in Spanish

Notes
Spa 335—Spanish for TOPT does not count toward the major.

This plan of study is not an option for Secondary Teacher Certification, Option II, Spanish majors.

Other Requirements

A grade of “C” or higher must be earned in all Spanish courses required for this major. Twelve semester hours of advanced (300-level or above) Spanish must be taken at Texas A&M University-Commerce.

Speech Communication Second Major

Required courses in the major (30 sh)

- SPC 1315 - US - Fundamentals of Speech
  or
- SPC 1321 - US - Business and Professional Speaking

- SPC 112 - Voice and Phonetics
- SPC 317 - Interpersonal Communication
- SPC 318 - Group Process and Decision Making
- SPC 408 - Intercultural Communication
- SPC 412 - Theory of Communication

- SPC 312 - Persuasive Communication
  or
- SPC 418 - Communication and Social Change

- THE 211 - Oral Interpretation
  or
- THE 311 - Readers Theatre

Required support courses (6 sh)

- MGT 305 - Management and Organizational Behavior
- JOUR 1307 - Mass Communication in Society

Theatre Second Major

Required courses in the major (43-44 sh)*

- Practicum or Rehearsal and Performance, 6 sh
- THE 1310 - Introduction to the Theatre
- THE 211 - Oral Interpretation
  or
- THE 311 - Readers Theatre
- THE 213 - Fundamentals of Acting
- THE 215 - Technical Theatre
- THE 445 - Projects in Acting
- THE 316 - Lighting for the Theatre
  or
- THE 349 - Theatrical Costuming
  or
- THE 366 - Introduction to Scene Design
- THE 340 - History of the Theatre I
- THE 415 - Stage Directing
- THE 440 - History of the Theatre II
- THE 480 - Lyric Theatre
- THE 489 - Independent Study
  or
  The 490H
  or
- THE 495 - Senior Theatre Project
- SPC 112 - Voice and Phonetics

Other Requirements

Practicum is required in each semester of attendance at Texas A&M University-Commerce unless waived by the Mass Media, Communication, and Theatre head. A grade of “C” or higher must be earned in all courses required for this major. Twelve semester hours of advanced major courses must be taken at Texas A&M University-Commerce.

Courses

ACCT 221 - Principles of Accounting I

Hours: Three

An introduction to financial accounting concepts and financial reporting, with the focus being on how decision makers analyze, interpret, and use accounting information. Emphasis is given to how accounting measures, records, and reports economic
activities for corporations and on the relationship between accrual and cash flow measures in interpreting accounting information. Prerequisite Completion or concurrent enrollment in MIS 128 or CSci 126.

Texas Common Course Number (Acct 2301)
When Offered (1, 2; 3 or 4)

ACCT 222 - Principles of Accounting II

Hours: Three

A study of the role of management accounting and control in business firms with an emphasis on organizational activities that create value for customers. Topics include activity based costing, cost behavior, cost allocation, pricing and product mix decisions, capital budgeting, compensation, benchmarking and continuous improvement, and behavioral and organizational issues. Prerequisite Acct 221.

Texas Common Course Number (Acct 2302)
When Offered (1, 2; 3 or 4)

ACCT 311 - Managerial Accounting

Hours: Three

Designed to give the students knowledge of cost accounting systems and how the data supplied by these systems are utilized in decision making. This includes a study of product costing concepts, budgeting, responsibility accounting, cost behavior, and quantitative techniques. Prerequisite Acct 222 and a minimum of 55 sh credit.

When Offered (1, 2, 3 or 4)

ACCT 321 - Intermediate Accounting I

Hours: Three

A study of accounting principles and procedures essential to the preparation of financial statements with particular emphasis on the corporate form. Topics of coverage include current assets and liabilities, investments and property, plant and equipment. Prerequisite Acct 222 and a minimum of 55 sh credit or Acct 501.

When Offered (1, 2)

ACCT 322 - Intermediate Accounting II

Hours: Three

A continuation of the detailed study of financial accounting principles and procedures begun in Accounting 321. Emphasis will be given to accounting for long-term liabilities and investments, stockholders’ equity, income recognition, leases, accounting
changes and errors, and financial reporting and analysis. Prerequisite Acct 321.

When Offered (2)

**ACCT 326 - Microcomputer Applications in Accounting**

Hours: Three

A study of the software applications and microcomputer operating systems utilized for accounting applications in business. Emphasis will be on spreadsheet applications to solve accounting problems using the microcomputer. Prerequisite Acct 222 and MIS 128 or CSci 126 or equivalent, and a minimum of 55 sh credit or Acct 501.

When Offered (1, 2)

**ACCT 421 - Advanced Accounting**

Hours: Three

A continuation of the financial accounting sequence. The course emphasizes business combinations and consolidations and will also cover other selected financial accounting topics. Prerequisite Acct 322 or approval of faculty.

When Offered (1, 2)

**ACCT 427 - Auditing**

Hours: Three

Principles and practices used by public accountants and internal auditors in examining financial statements and supporting data. Special emphasis is given to assets and liabilities. Prerequisite Acct 322 or approval of faculty.

When Offered (1)

**ACCT 430 - Business Ethics for Accountants**

Hours: Three

The course will provide a background in the process of ethical reasoning, the ethical environment, application of ethical rules and guidelines to case problems, and a framework for ethical decision-making. The focus will be on the ethical environment within which professional accountants and business operate. The objective is to provide the student with an educational background in what constitutes ethical conduct in businesses and accounting. Prerequisite Acct 222 and a minimum of 55 sh credit.

**ACCT 431 - Internship in Accounting**
Hours: Three

This course provides an opportunity for selected students to earn elective credits in accounting through supervised work experience with area business firms under the supervision of a faculty member. Prerequisite Twelve hours of accounting and permission of the head.

**ACCT 433 - Internal Control Systems**

Hours: Three

This course explores information systems that provide accounting and other information to make effective and efficient decisions. Emphasis is given to the interaction between the systems analyst, the financial accountant, the internal auditor, the external auditor, and other decision-makers. Overall data flow in systems is studied with an emphasis on flow and logic concepts and designing appropriate internal controls for these systems. Prerequisite Acct 222 and a minimum of 55 sh credit.

When Offered (1 or 2)

**ACCT 437 - Government and Not-For-Profit Accounting**

Hours: Three

A study of accounting principles and procedures as they apply to governmental units and to private non-profit organizations. Prerequisite Acct 222 and a minimum of 55 sh credit.

**ACCT 439 - Advanced Income Tax Accounting**

Hours: Three

A study of taxation of partnerships, corporations, estates, and trusts under current federal income tax laws. An emphasis will be on solving practical problems using tax research tools and software. Prerequisite Acct 222 and a minimum of 55 sh credit.

Note on solving practical problems using tax research tools and software.

When Offered (1)

**ACCT 440 - Income Tax Accounting**

Hours: Three

A study of income tax laws. Emphasis is given to the impact of the federal income tax on the individual taxpayer. Various research software and tools are utilized to solve practical tax problems. Prerequisite Acct 222 and a minimum of 55 sh credit.

When Offered (2)
ACCT 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

ACCT 497 - Special Topics

Hours: Three

Organized class.

Note May be repeated when topics vary. For description of graduate courses, see Graduate catalog.

AEC 219 - Agricultural Economics

Hours: Three

A study of economic principles, with emphasis on their application to the solution of farm, agribusiness, and agricultural industry problems.

Texas Common Course Number (AGRI 2317)

AEC 314 - Farm Management

Hours: Three

Techniques and procedures used for decision making in the farm business. Determination of optimum enterprise choice, resource combination and techniques of financial management, budgeting, and whole farm/ranch planning.

AEC 316 - Agricultural Marketing

Hours: Three

A broad view of marketing; food markets and consumption; marketing functions and institutions. Applications of economic theory to agricultural price estimation, discovery, and determination.

AEC 340 - Agricultural Finance
Analysis of capital investments, interpretation of financial statements, capital structure considerations for agricultural firms, farm real estate pricing, and financial intermediation in agriculture.

**AEC 360 - Agricultural Law**

Hours: Three

Survey of law and legal decisions that impact agriculture including farm and preservation, water rights, pollution abatement standards, workers’ rights, externalities, pesticide/insecticide regulation, product inspection, development of legislation, mineral rights and employer liability. Prerequisite Junior standing.

**AEC 370 - Microcomputing in Agriculture**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Study of the design, uses and programming techniques of microcomputers with practical application to crop, livestock, financial, capital and chemical management in agriculture. Prerequisite 12 semester hours of Agriculture.

**AEC 435 - Agricultural Policy**

Hours: Three

Analytical treatment of historical, recent and current economic problems, and governmental policies influencing American agriculture and rural America. The focus is on developing an historical and conceptual understanding of the economics of agriculture and how public policy has and does influence the nature and performance of American agriculture.

**AEC 445 - Resource and Environmental Economics**

Hours: Three

This course explores the approach that economists take to environmental and resource problems. It examines both the economic roots of environmental problems and the solutions that economists suggest. The course focuses on questions a policymaker must face in deciding how and when to regulate, including issues of efficiency and distribution.

**AEC 455 - Commodity Futures Marketing**

Hours: Three

The objectives of this course are to understand why futures exchanges and commodity futures contracts exist; understand and be able to forecast basis; understand hedging and be able to design hedging strategies for various commodity producers and users;
understand both put and call options and their potential use in a commodity risk management program; and understand the usefulness and shortcomings of fundamental and technical analysis.

**AEC 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**AEC 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduate courses see Graduate Catalog.

**AG 100 - Introduction to Agriculture**

Hours: One

Introduction to agriculture and its relationship to the sciences. Also explores careers and opportunities in agriculture. Insights into the agriculture curriculum and course content are also presented.

Note Required of all agriculture majors.

**AG 300 - Agricultural Communications Seminar**

Hours: One

Techniques of agricultural communication emphasizing principles involved in job search. Techniques of interviewing, resume writing, letters of inquiry, etc. Prerequisite Nine hours of English and Junior standing.

Note For agriculture majors.

**AG 335 - Wildlife Management I**

Hours: Three
Introduction to wildlife management. Principal wild birds and animals of economic importance to Texas farms. Methods and techniques of population manipulation.

Cross Listed/Same As Cross listed with BSc 335

**AG 336 - Wildlife Management II**

Hours: Three

The material will provide a comprehensive coverage of wildlife and water, wildlife and soils, wildlife and farmlands, wildlife and rangelands, forest management and wildlife, wildlife in parks and refuges, urban wildlife, exotic wildlife, nongame and endangered wildlife, economics of wildlife, conservation biology and wildlife management, wildlife as a public trust. Field trips providing practical experience with wildlife management techniques are required.

Cross Listed/Same As Cross listed with BSc 336

**AG 392 - Applied Ethics: U S and World Agriculture**

Hours: Three

This course examines major, contemporary issues in agriculture and food policy with emphasis on the ethical aspects of each issue. Discussion focuses on assessing the particular economic, cultural, geographic, political, religious, technological and scientific principles with a moral and ethical framework. Course scope is approximately half U.S. Domestic issues and half international issues. Prerequisite Junior standing.

**AG 400 - Seminar**

Hours: One

Techniques involved in presenting scientific and technical oral reports. Prerequisite Spc 111 or 245 and senior standing.

Note Oral presentations required.

**AG 405 - Internship in Agri-Industries**

Hours: Three to Six

This course provides the opportunity for students to gain on-the-job experience in the preparation for careers in the rapidly growing agri-related areas of industry and business. Assignments will be at an approved work situation under supervision of a designated faculty member.

Note Ten to twenty hours per week will be required.
AG 407 - General Biochemistry

Hours: Three

Nomenclature, structure, and function of major biomolecules and study of life processes involving them. Topics include enzymology, metabolism, molecular genetics, and biosynthesis. Treatment is qualitative, with very few quantitative considerations. Whenever appropriate, biochemistry is related to biological and health issues. Prerequisite BSc 1406, 1407; and Chem 212; or consent of the instructor. Note: For majors in life sciences and students interested in health professions such as veterinary medicine, osteopathic medicine, pharmacy, and dentistry

Note Cross list with Chem 314

AG 408 - Nutritional Biochemistry

Hours: Three

A course in biochemistry using nutrition as a model. Topics will include the energetics of metabolism, the structure and metabolism of proteins, carbohydrates, lipids and the integration of metabolic systems. Included also will be the chemistry of nitrogenous bases and how transcription and translation is accomplished on the cellular level. The course is 3-credit-hour class with 3 hours lecture and no lab (3, 0). Prerequisites are ANS 407, CHEM 212, CHEM 314.

AG 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

AG 495 - Undergraduate Research in the Agricultural Sciences

Hours: Three

Undergraduate research for those students pursuing a bachelors degree in the agricultural sciences. Prerequisite Junior status and a 2.7 cumulative grade point average with a 3.0 major grade point average. Must have prior acceptance by a faculty member in the agricultural sciences.

Note May not be taken if an honors thesis is being completed.

AG 497 - Special Topics

Hours: One to Four
Organized class.

Note May be repeated when topics vary. For description of graduate courses see Graduate Catalog.

**AGED 371 - Agricultural and Youth Leadership**

Hours: Three

Application of leadership principles with emphasis on interpersonal and personal skills, organizational structure, and FFA and 4-H Club activities.

**AGED 404 - Reading in Agricultural and Natural Sciences**

Hours: Three

Theoretical foundations of content area reading as applied to secondary instruction in the agricultural and natural sciences.

**AGED 465 - Student Teaching in Agricultural Science and Technology**

Hours: Six

Student teaching in Agricultural Science and Technology at the secondary level. The student teacher will work under the joint supervision of university personnel and local school officials for a minimum of 12 weeks. Prerequisites: SED 300, and PSY 300.

When Offered (2)

**AGED 470 - Methods of Teaching Agricultural Science and Technology**

Hours: Three

Professional skills associated with planning, delivering, and managing classroom and laboratory instruction in secondary Agriculture Science and Technology. Prerequisite: AgEd 371

When Offered (2)

**AGED 471 - The Program of Instruction in Agricultural Science and Technology**

Hours: Three
Professional principles and practices associated with developing and improving secondary programs in Agricultural Science and Technology including budgets, facilities and equipment, public relations, advisory committees, roles as FFA advisor, and ethical standards for professional educators.

Note For description of graduate courses see Graduate Catalog.

When Offered (2)

**AMC 315 - Agricultural Systems Technology Management**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Theoretical and practical application of mechanical and information technology in managing agricultural systems with emphasis on structures, energy, and natural resources. Prerequisite Math 1314 or 1324.

**AMC 423 - Natural Resources Management**

Hours: Three Lecture Lab/ Clock Hours 3 Lec

An investigation of best management practices and conservation techniques used by land owners and managers to protect renewable natural resources from intensive agricultural production methods. Emphasis will be on preventing soil loss and contamination, maintaining water quality, and protecting wildlife habitat. Prerequisite Junior standing or instructor approval.

**AMC 424 - Agricultural Safety**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab).

Principles and strategies for implementing safety training and reducing risk of injuries in agricultural enterprises including shop and machinery operations, chemical applications, livestock handling, transportation, and farm-based recreation. Prerequisite Junior or instructor approval.

**AMC 425 - Agricultural Structures and Material Handling Systems**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

A study of the principles and theories needed to comprehend and manage agricultural environmental technology associated with structural systems. Reduction and synthesis of natural and applied science principles which involve structural materials and their selection; heating, ventilation, and cooling of structures; processing and handling of biological materials; and knowledge of entrepreneurship, client relations, communications, economics, safety, service, planning, and regulation of technologies associated with agriculture and the environment. Prerequisite Junior standing.

**AMC 426 - Agricultural Power and Energy Systems Management**
A study of the principles and theories needed to comprehend and manage agricultural and environmental technology associated with machinery/equipment and energy systems. Reduction and synthesis of natural and applied science principles which involve mechanical, electrical, chemical power systems; the adjustments, fabrication, maintenance, repair and management of machines and equipment utilized in said systems; knowledge of entrepreneurship, client relations, communications, economics, safety, service, planning, and regulation of technologies associated with agriculture and the environment. Prerequisite Amc 315 and Junior standing.

AMC 428 - Laboratory Management in Agricultural Mechanization

Hours: Three

Principles and techniques for planning, organizing, and supervising instructional activities in agricultural mechanization. Topics include lab safety, inventory control, equipment selection, skill development, and assessment methods.

AMC 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

AMC 497 - Special Topics

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduate courses see Graduate Catalog.

ANS 118 - Introduction to Animal Science

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

Preliminary study of the selection, reproduction, nutrition and marketing of beef and dairy cattle, swine, sheep, horses and poultry.

Texas Common Course Number (AGRI 1419)
ANS 205 - Livestock Selection and Evaluation

Hours: Three Lecture Lab/ Clock Hours (1 lecture, 4 lab)

Selection and evaluation of breeding and market animals, breed characteristics, and carcass evaluation as it relates to live animal evaluation. Prerequisite AnS 118 or concurrent enrollment.

Note Occasional Field trips required.

Texas Common Course Number (AGRI 2321)

ANS 307 - Animal Feeding

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Chemical composition of feedstuffs, requirements of domestic animals, utilization of nutrients, formulating and balancing rations. Prerequisite AnS 118, Chem 11405 or 1411, Math 1314.

ANS 308 - Animal Nutrition

Hours: Three

Functions of carbohydrates, proteins, vitamins, lipids, minerals and water. Chemistry and physiology of nutrients and their metabolites.

Prerequisite: AnS 118, Chem 108 or 211

ANS 310 - Genetics of Livestock Improvement

Hours: Three

Introduction to genetic principles involved in domestic animal improvement Methods available to the animal breeder and their effectiveness. Gene action, crossbreeding, inbreeding and other mating plans. Prerequisites: BSC 1407 or ANS 118 or PLS 1415 or PLS 115

Prerequisite

ANS 311 - Reproductive Physiology of Domestic Animals

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)
Comparative anatomy and physiology of the male and female reproductive systems of domestic animals, endocrinology of reproduction, gestation and parturition. Prerequisite AnS 118, BSc 1407, Chem 1411.

**ANS 312 - Artificial Breeding of Domestic Animals**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Principles of artificial breeding of farm animals semen collection and evaluation, gamete freezing and storage, reproduction management techniques and pregnancy diagnosis. Prerequisite AnS 311.

**ANS 313 - Dairying**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Dairy breeds and their selection, milk secretion, composition and handling, milking equipment and facilities. Prerequisite AnS 118.

**ANS 317 - Livestock Management Techniques**

Hours: Three Lecture Lab/ Clock Hours (1 lecture, 4 lab)

Application of animal handling and management techniques for dairy, beef, sheep, swine and poultry. Prerequisite AnS 118.

**ANS 319 - Anatomy and Physiology of Domestic Animals**

Hours: Three

Structure and function of organ systems with special reference to domestic animals. Prerequisite Chem 1407 or 211.

**ANS 407 - Animal Nutrition**

Hours: Three


**ANS 408 - Animal Feeds and Feeding**

Hours: Three
Chemical composition of feedstuffs, requirements of domestic animals, utilization of nutrients, formulating and balancing rations.

Prerequisite: AnS 308

ANS 411 - Sheep and Goat Management

Hours: Three

Types, breeds and usefulness of sheep and goats in the U.S. Management systems, production schemes, and general husbandry. Prerequisite AnS 118, 307, 310, 311.

ANS 412 - Beef Cattle Management

Hours: Three

Concepts and principles of breeding, feeding and management of beef cattle in the U.S. A survey of the past, present and future ideas of the beef cattle industry. Prerequisite AnS 118, 307, 310, 311.

ANS 413 - Swine Management

Hours: Three

Commercial and purebred swine operations. Feeding, breeding, and management practices, production efficiency and waste management facilities. Prerequisite AnS 307, 310, 311, 317, 319.

ANS 415 - Companion Animal Management

Hours: Three

Anatomy, physiology, nutrition, genetics and health of companion animals including cats, dogs, rabbits, rats, mice, reptiles, amphibians and fish. Problem solving and enterprise management. Prerequisite AnS 118, 307, 310, and 311 or consent of instructor.

Note Occasional Field trips required.

ANS 416 - Animals and Society

Hours: Three

This course is designed to provide a thorough understanding of how animals (companion animals, livestock, wild animals) impact and effect our daily lives, our society, and our economy and their impacts on national security. Topic areas include: Introduction; Animals in History; Animals in Other Societies; Animal-Human Relationships; Animals in Prison Industries;
Animal Rights/Animal Welfare; and Management and various unique aspects of species of Companion Animals, including dogs, cats, and horses; and birds reptiles and other pets.

**ANS 419 - Diseases and Parasites of Livestock**

Hours: Three

A study of the control and prevention of common infectious and non-infectious diseases of livestock. The common parasites, their prevention, and control. Prerequisite AnS 118, BSc 1407 and 254.

**ANS 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. May be repeated when the topic varies. Prerequisite Consent of head.

**ANS 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduates courses see Graduate Catalog.

**ANTH 450 - Gender in Cross-Cultural Perspective**

Hours: Three

This course examines issues and theories of gender cross-culturally. Ethnographic and interdisciplinary materials will be used to explore the diversity of gender roles and gender belief systems in the contemporary world. Emphasis will be on encouraging students to critically examine the social, cultural, and historical underpinnings of gender inequality.

**ANTH 497 - Special Topics**

Hours: Three

Organized class.

Note May be repeated when topics vary.
ANTH 2351 - World Cultures: Perspectives from Anthropology

Hours: Three

ANTH 2351 - (ANTH 114) - This course undertakes the study of culture and society from a cross-cultural perspective. It provides an introduction to the major concepts, research methods, and theoretical frameworks of cultural anthropology. Topics focus on marriage and family practices, gender roles and identities, subsistence strategies, political and economic systems and religion. The course will help students to better understand variations in behaviors and beliefs cross-culturally while also providing important insights into U.S. Culture.

Texas Common Course Number (ANTH 2351)

ART 110 - Drawing I

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 studio)

The development of perceptual and descriptive skills through and introduction to a variety of drawing media, techniques and subject matter.

ART 111 - Two-Dimensional Design and Color Theory

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 studio)

An exploration of the fundamental elements and organizing principles of two-dimensional design including an introduction to basic concepts of color theory.

ART 112 - Drawing II

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 studio)

A continuation of Drawing I, this course reinforces basic rendering skills and introduces additional drawing media and techniques. Emphasis is placed on the development of expressive and conceptual capabilities.

ART 140 - Three-Dimensional Design and Color Theory

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 studio)

Students tackle a variety of challenging 3-D Design projects while expanding upon their knowledge of color theory. Students must consider craftsmanship, color and texture while completing projects that involve prototype making and invention, product parameters and marketing, shape, scale and material construction.

ART 141 - Introduction to Practical Woodworking Applications and Woodshop Safety
Students are introduced to woodshop tools, methods and shop safety practices. In the process of learning how to use the shop and tools safely and effectively, students will complete basic projects that will assist them in future, more advanced studio classes. Such projects include frame, stretcher, pedestal and shelf building. All students must complete this course prior to taking upper-level art courses in order to gain access to the woodshop.

**ART 213 - Figure Drawing**

Hours: Three Lecture Lab/ Clock Hours (6 lecture/studio)

The solving of total compositional problems, through drawing media. Emphasis is placed upon the figure, with additional concentration upon other subject matter and nonobjective image-making.

**ART 216 - Sophomore Studio: Introduction to Communication Design**

Hours: Three semester hours: Lecture Lab/ Clock Hours 3 Lecture

This course provides an introduction to the aesthetic and pragmatic fundamentals of contemporary communication design through the mediums of print and electronic graphics.

**ART 227 - Sophomore Studio: Introduction to Painting**

Hours: Three Lecture Lab/ Clock Hours 3 Lecture/3 Lab

Introduction to the fundamentals of painting with an expanded practical investigation of color interactions beyond the basics introduced in Two-Dimensional Design and Three-Dimensional Design. Exploration of traditional and contemporary techniques and methodologies through a variety of subjects including still life, figure, self-portrait and landscape from direct observation or imagination.

**ART 240 - Sophomore Studio: Introduction to Sculpture**

Hours: Three semester hours: Lecture Lab/ Clock Hours 3 Lecture/3 Lab

This course provides an introductory exposure to woodworking, moldmaking and casting. Students will learn basic methods and techniques while discussing how specific mediums and processes are being used in a sculptural and art making context. Gallery and museum visits will be incorporated into the class as students research and discuss the work of contemporary artists.

**ART 250 - Sophomore Studio: Introduction to Ceramics**

Hours: Three semester hours:
This course provides an introductory exposure to the history of ceramics and a beginning level experience in the use of clay as a fine art medium. Forming techniques, surface development and glazing, and kiln firing practices will be introduced. Both the functional and sculptural ceramic traditions will be explored.

ART 300 - Typography

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

This course emphasizes the utilization of type design in the broader arenas of printed and electronic media. Initial emphasis is placed on hand-eye skills and accurate visual judgments, while later topics include letter-spacing, overall visual order, positive/negative space, and historical and original usage of type design and design concepts. Students will sometimes work in groups to simulate the team efforts found among professionals in the Communication Arts. Prerequisite Junior or Senior standing.

Note Course may be repeated for up to 8 sh.

Formerly Art 260

ART 304 - American Art and Architecture

Hours: Three

A survey of all major visual art forms produced in America, including those by American Indians, from the period prior to colonization to the present. All the artworks will be examined in respect to their cultural, psychological, literary and philosophical contexts. Comparisons between select works of art will be made in respect to content, style, technique, composition and purpose.

ART 305 - Integrated Arts for Elementary Teachers

Hours: Three

This course is designed to introduce students to various creative theatre, visual, and musical arts content and experiences in the elementary school classroom.

Cross Listed/ Same As Same as Mus 305 and The 305

ART 307 - Art in Context I

Hours: Three

This course surveys the visual arts in their social and cultural context from the prehistoric societies of the Paleolithic Age to the end of the Middle Ages. Art is examined as an expression of the human imagination and is considered in relation to other
disciplines, such as science, literature, philosophy, politics, economics and the performing arts. The course will emphasize the contributions of various cultural groups and historical periods to the universal language of art. Prerequisite Junior Standing.

Capstone (Capstone)

ART 309 - Digital Imaging for Communication Art

Hours: Four Lecture Lab/ Clock Hours (6 studio/lecture)

Introduction to digital photo manipulation and the manipulation of other images. Students will learn the Preparation of images for use with print production, animation and web-based applications. Prerequisite Pho 111 and Junior or Senior standing.

ART 310 - Electronic Media

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

A broad-based practicum in computer-based electronic media with emphasis on advanced applications in the graphic arts. Area of emphasis will include typography, graphic design, illustration, digital imaging, and pre-press preparation. Prerequisite Junior or Senior standing.

Note Course may be repeated for up to 8 sh.

Formerly Art 216

ART 311 - Multimedia I

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

An introduction to producing multimedia presentations. students learn authoring techniques to incorporate digital imagery, audio and video into a running interactive presentation. Prerequisite Art 300, 309, 310.

Cross Listed/ Same As Same as CSci 311

ART 312 - Internet Development I

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Introduction to web site design and publishing. Students learn the basics of HTML programming to incorporate graphics into functional interactive sites, including HTML tags, frames and scripting. Prerequisite Art 300, 309, 310.

Cross Listed/ Same As Same as CSci 312
ART 313 - Interactive Vector Graphics and Animation

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Vector-based graphics for the implementation of internet applications ranging from a navigational interface to 2D animation. Prerequisite Art 300, 309, 310.

ART 316 - Advanced Drawing

Hours: Three Lecture Lab/ Clock Hours (3 lecture/3 lab)

Emphasis on experimental and individually based, expressive statements using drawing media. A variety of subjects, including the figure, will be used.

Note May be repeated to a maximum of 8 semester hours.

ART 317 - Three-Dimensional I

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Overview of 3D modeling, texturing, lighting, and animation. Exploration of the tool sets involved in creating and animating the 3D scene. Prerequisite Art 365 or permission of the instructor.

ART 320 - Airbrush Painting

Hours: Three Lecture Lab/ Clock Hours (3 lecture/3 lab)

Introduction to fundamentals of painting with an airbrush, and operation and maintenance of the basic airbrush. Stencils, frisket, and freehand techniques are explored. Prerequisite Art 111 and 212.

Note May be repeated to a maximum of 8 sh.

ART 321 - Watercolor I

Hours: Three Lecture Lab/ Clock Hours

Exploration of a variety of traditional and contemporary experimental watercolor processes and concepts. Ongoing evaluation of development of personal expression.

Note May be repeated to a maximum of 8 sh

ART 330 - Printmaking
Hours: Three Lecture Lab/ Clock Hours (3 lecture/3 lab)

A technical and conceptual exploration of fine art printmaking that may include relief, intaglio, planographic, and stencil processes and crystallographic prints. Emphasis is placed on the development of the student’s personal expression. Screenprinting may be a follow-up for the course.

**ART 331 - Screenprinting**

Hours: Three Lecture Lab/ Clock Hours 3 lecture/3 lab

A technical and conceptual exploration of fine art printmaking using screen printing techniques. Emphasis is placed on the development of the student’s personal expression.

Note May be repeated up to a maximum of 8 sh.

**ART 332 - Printmaking II**

Hours: Three Lecture Lab/ Clock Hours 3 lecture/3 lab

This course is intended for students who have previous experience with printmaking and wish to continue exploring various print media. It is also open to those who wish to work independently on printmaking projects or would like to incorporate printmaking into other media. Monoprinting, etching, and all kinds of relief printing are covered in this course with a leaning towards experimentation and idea development. Students will work with colour, choose their own subject matter, and will be instructed in the non-hazardous use of printmaking materials.

Prerequisite: Prerequisite: ART 330 Printmaking I or equivalent

**ART 340 - Sculpture I: Introduction to Fabric, Video, Performance and Public Art**

Hours: Three Lecture Lab/ Clock Hours (6 lecture/studio)

Students will be introduced to fabric and video as sculptural mediums while learning basic patterning, sewing, camera and editing techniques. Additionally, students will study the role of public and performance art by researching and discussing a variety of contemporary artists who use this exhibition format to communicate ideas. Museum and gallery trips will be incorporated into this class. Prerequisite Art 140.

Note May be repeated to a maximum of 8 sh.

**ART 341 - Sculpture I B: Introduction to Metals and Mechanical Systems**

Hours: Three Lecture Lab/ Clock Hours (6 lecture/studio)

Students will use metal as a sculptural medium as they are introduced to basic welding and cutting techniques. Additionally,
students will begin to study kinetic sculpture by creating motor and handle-operated cam and pulley systems as an introduction to making mechanical and electro-mechanical systems. Students will study the role of kinetic art by researching and discussing a variety of contemporary artists who use this approach to communicate ideas. Museum and gallery trips will be incorporated into this class. Prerequisite Art 140.

Note May be repeated to a maximum of 12 sh.

**ART 350 - Ceramics I**

Hours: Three Lecture Lab/ Clock Hours (3 lecture/3 lab)

An exploration of ceramic techniques, processes, and concepts pertinent to the use of clay as a fine art medium. The focus of the course is on the ceramic vessel as functional form and as a vehicle for creative expression. Handbuilding, wheelthrowing, surface options including slip and glaze, and experience in firing kilns will be covered. Clay body and glaze formulation will be introduced. Prerequisite ART 250

Note May be repeated to a maximum of 12 sh.

**ART 360 - Illustration I**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Exploration of a variety of contemporary and traditional approaches to illustration. Prerequisite Art 300, 309, 310.

Note May be repeated to a maximum of 8 sh.

**ART 365 - Design Communications I**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Introduction to, and resolution of, graphic design problems, including posters, logos, letterheads, billboards, and ad campaigns. Emphasis upon creative solutions and concepts Includes layout and prepress preparation. Illustration students will do related projects from the perspective of the illustrator. Prerequisite Art 300, 309, 310.

Note May be repeated to a maximum of 8 sh.

**ART 380 - Experimental Concepts**

Hours: Three Lecture Lab/ Clock Hours (3 lecture/3 lab)

In-depth experimentation with concepts that address the creative process. Media selection is up to the individual students with the intent of arriving at innovative and effective individual expressions that explore the relevant concepts.

Note May be repeated to a maximum of 8 sh.
ART 403 - Practicum in Art

Hours: Three

This course prepares students for the job market in the visual arts through exercises in résumé writing, artist’s statements, and grant writing. It also provides information to help students in compiling and organizing portfolios, presenting slide lectures, entering into gallery and sales contracts, and understanding copyright and IRS laws.

When Offered Every third semester

ART 404 - Contemporary Issues

Hours: Three

This course considers criticism, theory, styles, processes and other issues relevant to an understanding of contemporary art.

ART 405 - History of Modern Art

Hours: Three

This course surveys the major developments in the visual arts of Europe and North America from the latter half of the nineteenth century to the 1960s.

ART 410 - Three-Dimensional II

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

The creation of complex mechanical and organic 3D objects. Students explore the fundamentals of lighting, mapping, and rendering of 3D models. Prerequisite Art 317 and 365.

ART 411 - Multimedia II

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

An introduction to producing multimedia presentations. Students learn authoring techniques to incorporate digital imagery, audio and video into a running interactive presentation. Prerequisite Art 310 and 313.

Cross Listed/ Same As Same as CSci 411

ART 412 - Internet Development II
An introduction to web site design and publishing. Students learn the basics of HTML programming to incorporate graphics into functional interactive sites, including HTML tags, frames and scripting. Prerequisite Art 312 and 313.

**Cross Listed/ Same As** Same as CSci 412

**ART 414 - Motion Graphics**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Exploration of linear animation. Students will learn the basics of how to composite and apply special effects to graphics, audio, and video over a time sequence. Prerequisite Art 313.

**ART 416 - Advanced Electronic Media**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Advanced study in electronic media with emphasis on complex illustration and graphic design, focusing, too, on creative problem-solving and individual style. Prerequisite Art 300, 309, 310.

Note Student may repeat for a maximum of 8 sh.

**ART 417 - Three-Dimensional III**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Creation of complex environments with multiple 3D objects. Emphasis on the creation of realism through the use of custom mapping, lighting and rendering. Prerequisite Art 410.

**ART 418 - Three-Dimensional IV**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Animation of three-dimensional environments and incorporation of special effects in time based sequence. Prerequisite Art 417 or permission of the instructor.

**ART 422 - Painting II**

Hours: Three

Advanced Concepts in Painting: Students are taught to create a personal, creative, articulate, visual language. a) Tutorial Practice:
Basic Studio Problems b) Tutorial Practice: Studio Emphasis c) Tutorial Practice: Advanced Problems Prerequisite Art 212 and 320 or 325 or 321 or permission of the instructor.

Note May be repeated to a maximum of 9 semester hours.

**ART 432 - The Art of the Book**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Study and development of original books, with emphasis upon unifying aesthetic relationships between visual and literary contents. The class will address original concepts, and both contextual and practical aspects of visual imagery, design, writing and production. Prerequisite Permission of the head.

Note May be repeated to a maximum of 12 sh.

**ART 433 - Screenprinting II**

Hours: Three Lecture Lab/ Clock Hours 3 lecture/3 lab

Expanded study of the technical and conceptual practices and uses of this fine art medium. The student will be encouraged to expand and broaden their own views related to the creation of imagery as well as honing their technical skills.

Prerequisite ART 331

**ART 440 - Sculpture II: Advanced Studio Problem Solving with an Emphasis on Installation Techniques**

Hours: Three Lecture Lab/ Clock Hours (6 lecture/studio)

Students will create advanced projects while learning large-scale, site-specific, installation techniques. Prior to this course, students will have learned to use a variety of materials and methods, which will allow them to more accurately problem-solve when planning, creating and installing room-sized works. Students will research and discuss a variety of contemporary artists who effectively communicate ideas using large-scale and site-specific installations. Museum and gallery trips will be incorporated into this class.

Prerequisite Art 140.

Note May be repeated to a maximum of 12 sh.

**ART 441 - Sculpture II A: Advanced Studio Problem Solving with Solo Exhibitions**

Hours: Three
Students will continue to create advanced sculptural objects, performances, and/or installations using knowledge about a variety of materials and methods gained from previous coursework. Students will continue to study and discuss the work of contemporary artists while learning to place their own work in an art and art history context. Each student will be required to design, build and advertise a solo exhibition of recent works. Museum and gallery trips will be incorporated into this class.

Prerequisite Art 340, Art 341

**ART 450 - Ceramics II**

Hours: Three Lecture Lab/ Clock Hours (3 lecture/3 lab)

This course offers further exposure to ceramic forming processes; surface treatment; and firing processes, including oxidation, reduction, raku, soda, and wood. Increased attention will be given to the conceptual and aesthetic aspects of ceramics and the development of an expressive, individual direction. Increased emphasis on critical research in contemporary and historical ceramics. Prerequisite ART 250 and ART 350.

Note May be repeated to a maximum of 9 sh

**ART 451 - Ceramics III**

Hours: Three Lecture Lab/ Clock Hours (3 lecture/3 lab)

Advanced studio practice emphasizing the development of a personal approach to the creation of expressive objects using clay. Continued research in historical and contemporary ceramic trends and issues. Increase experience with clay body formulation, glaze formulation, and a variety of firing methods Prerequisite ART 250 and ART 350

Note May be repeated to a maximum of 9 sh.

**ART 460 - Illustration II**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Advanced problems leading to finished portfolio pieces, with emphasis on current trends in illustration. Prerequisite Art 310 and 360 or permission of the instructor.

Note May be repeated to a maximum of 8 sh.

**ART 462 - Illustration III**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Continuation of advanced problems in illustration, combined with an introduction to the network of illustrators and publishers in the Dallas-Fort Worth area. Visits to the studios of established illustrators. Prerequisite Art 310 and 360 or permission of the instructor.
Note May be repeated to a maximum of 8 sh.

**ART 466 - Design Communications II**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Development of portfolio pieces using a variety of design concepts, methods, and technologies. Emphasis upon the visual and thematic relationship between design and headline or simple body copy. Prerequisite Art 365 or permission of the instructor.

Note May be repeated to a maximum of 8 sh.

**ART 467 - Design Communications III**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Advanced problems in design communications for students in design, art direction, and advertising art. Assignments in design and advertising concepts will emphasize brainstorming and problem-solving. Prerequisite Art 310 and 365 or permission of the instructor.

Note May be repeated to a maximum of 8 sh.

**ART 472 - Art Direction**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Problems in advertising art from the perspective of an art director. Emphasis upon contemporary trends in advertising, brainstorming and group concept-forming techniques. Relationships between concept, design, and copy will be emphasized. Prerequisite Art 310 and 365 or permission of the instructor.

Note May be repeated to a maximum of 8 sh.

**ART 473 - Advertising Art Concepts and Copywriting I**

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Problems in advertising art concepts and copy writing, with emphasis on brainstorming and group collaboration. Prerequisite Art 365 and 472, or permission of the instructor.

Note May be repeated to a maximum of 8 sh.

**ART 474 - Advertising Art Concepts and Copywriting II**
Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Advanced problems in advertising art concepts and copy writing. Prerequisite Art 365 and 472, or permission of the instructor.

Note May be repeated to a maximum of 8 sh.

ART 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of art faculty and head.

Note May be repeated when the topic varies.

ART 490H. - Honors Thesis

ART 491H. - Honors Research

ART 495 - Internship

Hours: Four

Supervised work in the field of Communication Arts. Terms and conditions of the internship must be approved before enrollment. Prerequisite Permission of the instructor.

ART 497 - Special Topics

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For descriptions of graduate courses the Graduate Catalog.

ART 1301 - Art, Technology and Civilization

Hours: Three

ART 1301 - (ART 202) - This course examines the relationships between the visual arts and other expressions of human
imagination and invention. Special attention is given to parallel developments in the histories of ideas, technology and art.

Texas Common Course Number (ARTS 1301)

**ART 1303 - History of Art I**

Hours: Three

ART 1303 - (ART 200) - A survey of the visual arts in Western Europe from prehistory to the Renaissance. Both the form and content of major works of art will be examined in relation to their social and cultural contexts.

Note Art 200 meets the University Studies’ Visual/Performing Arts requirement.

Texas Common Course Number (ARTS 1303)

**ART 1304 - History of Art II**

Hours: Three Lecture Lab/ Clock Hours Lecture

A survey of the visual arts from Early Renaissance to 1900. Major examples of architecture, sculpture and painting will be examined in relation to their social and cultural context.

Note Note Art 1304 meets the University Studies’ Visual/Performing Arts requirement.

**ASTR 260 - Archaeoastronomy**

Hours: Three

An introduction to the interdisciplinary study of ancient cultures and astronomy. Topics of study will include basic naked eye astronomy, architectural alignments, calendar systems and the role of astronomy in ancient cultures.

**ASTR 310 - Observational Astronomy**

Hours: Four Lecture Lab/ Clock Hours 3 Lec, 2 Lab

This class focuses on astronomical observation techniques and analysis of data including practical experience with modern telescopes and imaging devices, computer-based reduction and analysis, and interpretation of astronomical data.

Prerequisite ASTR 1411 or ASTR 1412

Note Required for minor in astronomy
ASTR 337 - Introduction to Astrophysics

Hours: Three

This class provides an introduction to the physical laws governing the celestial mechanics of the planets, stars, galaxies, and structure of the universe. It will include a study of star formation, interstellar medium, orbital dynamics, stellar evolution. Prerequisite ASTR 1411 or ASTR 1412 or Instructor’s approval, and having met the University Study requirement in Math 1314 or 1324 or 179 or 2413.

ASTR 1411 - Astronomy of Solar System

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

ASTR 1411 - (ASTR 101) - A basic introductory course in the astronomy of the solar system. Included are a study of the sun, the planets and their satellites, comets, and other members of the solar system, and the inter-planetary medium. The use of appropriate scientific tools for the study of the solar system will be examined. Theories on the evolution and origin of the solar system will be examined within the context of supporting evidence. Prerequisite No.

Note One two-hour laboratory per week, including night telescope viewing sessions.

Texas Common Course Number (PHYS 1411)

ASTR 1412 - Introduction to Stars and the Universe

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

ASTR 1412 - (ASTR 102) - A descriptive survey of astronomy with emphasis on modern developments in stellar and galactic astronomy and the role of physical science in the measurement and interpretation of astronomical data. Included are studies of structure and evolution of stars and galaxies and of current cosmological theories. Prerequisite No.

Note One two-hour laboratory or night telescope viewing session per week.

Texas Common Course Number (PHYS 1412)

BA 125 - Elementary Computer Keyboarding

Hours: Three

Introduction to the operation of the microcomputer keyboard, development of touch keyboarding, development of speed and accuracy, and basic skill for computer keyboarding competency.

When Offered (2)

BA 195 - Introduction to Business
Hours: Three

This course gives the beginning business student background information related to the scope of business activity and the methods of solving business problems. Emphasis is placed on units dealing with management, finance, marketing, and accounting.

Texas Common Course Number (BUSI 1301)
When Offered (1, 2)

BA 301 - Legal Environment of Business

Hours: Three

A study of the legal environment and aspects of commerce, including administrative law, trade restraints, price discrimination, labor and employment law, common and statutory liability and regulation of professionals, elements of contract and tort law, as well as an analysis of basic principles of the foreign and international aspects of business and commerce. Prerequisite Junior Standing.

When Offered (1, 2, 3)

BA 302 - Business and Economic Statistics

Hours: Three

This course introduces students to descriptive statistics (measures of central tendency and variation and representing data graphically), and statistical inference. Inference will involve sampling techniques, estimation, hypothesis testing and simple regression. Applications emphasize continuous improvement of products and services. Prerequisite Junior standing and Math 1314 or 1324.

When Offered (1, 2, 3)

BA 303 - Business Communication

Hours: Three

A study of the fundamentals of writing both formal and informal reports, utilizing primary and secondary research. A team approach is used for problem solving and process improvement. Included is the study of life-long learning skills as related to interpersonal communication and intercultural business communication. Prerequisite Junior standing.

When Offered (1, 2, 3)

BA 345 - Information Management for Business Professionals
This course provides an overview of the field of records and information management. The course identifies the skills that are applicable to the management of records in all fields, including those in specialized areas—medical, legal, financial, and archived records management, as well as records center and depository management and records management consulting. Information is provided about employment and career opportunities as records management professionals. The legal and ethical issues in the records management field are addressed. This course will cover the basics for both manual filing and electronic record keeping. Prerequisite Junior standing.

When Offered (2)

**BA 357 - Legal Organizations and Business Transactions**

Hours: Three

A course in commercial law, including a study of negotiable instruments, agency, partnerships, corporations, real estate, wills, sales and secured transactions. Prerequisite Junior Standing.

When Offered (2)

**BA 385 - Principles of Risk and Insurance**

Hours: Three

A survey of the general principles of risk management and insurance. Includes coverage of life, health, automobile, property, fire, and casualty insurance for both the family and business sectors. Prerequisite Junior Standing.

When Offered (1)

**BA 420 - International Business**

Hours: Three

This course provides coverage of a broad survey of international business issues; analyzes the environment in which international businesses operate; introduces multinational enterprises, global competition, international organizations, treaties and international law, national trade policies and the determinants of competitiveness of U.S. firms in international markets. Prerequisite Eco 2301 and 2302 and Junior standing.

When Offered (1, 2, 3)

**BA 430 - Organizational Ethics**

Hours: Three
Foundations of ethical principles and their application in contemporary organizational settings. Included are theories of moral philosophy and the development of professional business codes and laws. Special emphasis on emerging ethical challenges in business technology and culture. Prerequisite Junior standing.

**BA 475 - Statistics for Decision Making**

Hours: Three

Coverage of statistical techniques basic to business decision making including tests of hypotheses, regression, correlation, forecasting, ANOVA, non parametric procedures, and decision theory. Prerequisite Math 176, BA 302, and junior standing.

**BA 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**BA 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary.

**BAAS 301 - Practicum I**

Hours: Three

Supervised work experience under the oversight of a university faculty member. Designed to provide competencies in occupational areas and to acquaint students with standards and procedures found in contemporary business and industry with an emphasis on the individual. Prerequisite Eng 101, 102 and Math 141 or higher.

Note Students are required to complete a minimum of 160 clock hours on the job and document the work experience.

**BAAS 302 - Practicum II**
BAAS 303 - Practicum III

Hours: Three

Supervised work experience under the oversight of a university faculty member. Designed to provide competencies in occupational areas and to acquaint students with standards and procedures found in contemporary business and industry with an emphasis on teams. Prerequisite BAAS 301.

Note: Students are required to complete a minimum of 160 clock hours on the job and document the work experience.

BAAS 305 - Effective Corporate Communications

Hours: Three

This course is a study of effective exchange of information between individuals and organizations including email, reports, memorandums, letters, presentations, web page design, advertising, marketing, and public relations. Emphasis will be placed on professionalism, etiquette, and multi-cultural environment in both internal and inter-communication. Word, MS Excel Spreadsheets, MS Power Point, and E-mail will be reviewed as tools of information exchange. Prerequisite: Junior standing.

BAAS 306 - Org Change, Creat & Div

Hours: Three semester hours

This course will focus on building managerial skills to successfully achieve organizational change through creativity, innovation and cultural diversity. Included in the course will be an in-depth business case analysis with issues related to the causes, effects and implementation of organizational change. Students will be required to research several organizations and make a formal presentation regarding the successful or unsuccessful organization change events. Prerequisite: BAAS 101, ENG 1302, and BAAS 305.

BAAS 345 - Organizational Leadership

Hours: Three
Study of contemporary leadership trends in business and industry. Students will research and study a body of literature with an emphasis on formulation of current leadership practices and future trends. Prerequisite Junior standing

Note A formal research paper is required.

**BAAS 350 - Knowledge Management**

Hours: Three

Study of the process of creating value from an organization’s intangible assets with an emphasis on intellectual capital, including human, structural and customer capital. Prerequisite Junior Standing.

Note A formal research paper or project is required.

**BAAS 355 - Dynamic Organization**

Hours: Three

Study of contemporary business and industrial organizations with an objective to develop a working understanding of factors that contribute to organizational success. Emphasis on benchmarking existing enterprises and examination of company philosophies with the purpose of modeling the exemplary organization. Prerequisite Junior Standing.

Note A formal research paper or project is required.

**BAAS 397 - Special Topics**

Hours: Three

Organized class.

Note May be repeated when topics vary.

**BAAS 409 - Global Technology and Society**

Hours: Three

This course is a comprehensive survey and analysis of societal and ethical implications of contemporary technological innovations. Special Emphasis is placed on cultural, social, economic, and environmental effects resulting from advances and future trends in science and technology on a global scale. Prerequisite Junior Standing.

Note A formal research paper or project is required.
BAAS 444 - Strategies for Decision Making

Hours: Three

This course provides a comprehensive examination of the role and importance of ethics in today’s complex business environment. In the practice of exploring these issues specific attention will be given (1) to think critically about the relationships and social responsibilities of individuals, organizations and communities, and (2) to develop informed decisions by understanding ethical philosophy and applying an ethical decision making process to practical ethical dilemmas confronting leaders and managers in the workplace. This course will develop critical thinking and writing competencies. Prerequisite Must be within 12 semester hours of graduation.

BAAS 497 - Special Topics

Hours: Three

Organized class.

Note May be repeated when topics vary.

BLED 401 - Foundations of Bilingual/ESL (English as a Second Language) Education

Hours: Three

Introduction to the philosophies and theories of bilingual schooling with emphasis on language policy and the sociological, psychological, and legal aspects involved. Provides students with opportunities to reflect on their own language learning and schooling experiences in bilingual settings and compare them to programs and practices shown by research to be effective.

BLED 402 - Bilingual Oral Language and Biliteracy Instruction: Methods, Materials, and Assessment

Hours: Three

An examination of the theories, instructional approaches, curricula, texts, materials, and assessment instruments used for oral language and literacy development in elementary bilingual classrooms. Opportunities to evaluate commercial and research based programs and to create/adapt materials for students with varying degrees of bilingualism and biliteracy. Offered in Spanish and English.

Prerequisite and/or Corequisite BlEd 401 and RDG 350. Also high intermediate to advanced proficiency in Spanish.

BLED 403 - Bilingual Instruction for the Content Areas: Methods, Materials and Assessment

Hours: Three
An examination of the theories, instructional approaches, curricula, texts, materials, and assessment instruments used for teaching language arts, math, science and social studies in elementary bilingual classrooms. Opportunities to evaluate commercial and research-based programs and to create/adapt materials for students with varying degrees of bilingualism and biliteracy. Offered in Spanish and English.

Prerequisite and/or Corequisite BlEd 401 and high intermediate to advanced proficiency in Spanish.

**BLED 412 - Second Language Literacy for English Language Learners**

Hours: Three

Current approaches to the teaching of reading and writing in English to bilingual and ESL students in grades PK-12. Students will assess the oral language and literacy skills of English Language Learners and design, evaluate, and modify/adapt commercial and research-based instructional materials to meet identified needs.

Prerequisite and/or Corequisite BlEd 401 and Rdg 350.

**BLED 413 - Sheltered Content Area Instruction for English Language Learners**

Hours: Three

The application of second language acquisition research, theory, and pedagogical approaches to the teaching of math, science, social studies, and language arts in English to bilingual and ESL students in grades PK-12. Content-based ESL and sheltered instructional approaches, methods, and materials that meet state and local standards will be among those explored and experienced.

Prerequisite and/or Corequisite BlEd 401.

**BSC 105 - Natural History of Texas**

Hours: Four Lecture Lab/ Clock Hours (3 Lecture, 2 Lab)

An introduction to the plants, invertebrates, and animals of Texas. Topics include the geography and climate of Texas and how these factors result in the various ecological regions of the state. In addition to describing the biodiversity of Texas, students will also be exposed to the on-going conservation and wildlife issues within the state of Texas. Laboratory exercises will involve identification and learning about local plants, invertebrates, and animals, as well as field trips

Note
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

**BSC 106 - Human Biology: Man and His Environment**
Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

This (University Studies) course is designed to apply the principles of biology to humans as a functional unit of our social organization.

Note
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

Texas Common Course Number (BIOL 1408)
When Offered Fall, Spring

BSC 111 - Introduction to Biology

Hours: One

Introduction to biological sciences and its relationship to other sciences. Explores careers and opportunities in biology and research methodology in the biological sciences.

Note Required by anyone majoring in Biology, Environmental Science, Pre-Med and all other Pre-Professional majors (excluding Pre-Vet) related to the life sciences.

BSC 254 - General Microbiology

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

Study of microbiology emphasizing fundamental principles and applications.

Note (not interchangeable with BSc 306).

Texas Common Course Number (BIOL 2420)
When Offered (Fall)

BSC 256 - Medical Terminology

Hours: Three

This course will study the basic structure of medical words. Included will be prefixes, suffixes, roots, combining forms, and plurals. Emphasis will be placed on pronunciation and spelling.

Note This course cannot be used or substituted for any course in any degree program in Biological Sciences.

When Offered (Spring)

BSC 297 - Special Topic
BSC 301 - Biological Literature

Hours: Three

This course provides students with the fundamentals of scientific thinking and scientific writing. The course starts with a brief overview of the history and philosophy of science as it pertains to biology. Students will learn about empiricism, parsimony, and how to apply the scientific method to developing and testing hypotheses. Students will be taught how to write in scientific style; naming conventions, how to cite scientific names, how to avoid obfuscatory scrivenry, establishing flow, organizing a scientific document, how to write an abstract, how to present scientific data and statistics, how to cite figures and tables, how to cite scientific sources, how to avoid plagiarism, and how to find scientific information using databases and the internet. The final part of this class deals with bioethics and the use of ethics in biological research.

Note
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

When Offered Spring

BSC 303 - Cell Biology

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

This course is intended for biology and pre-professional majors with a solid understanding of general biology and general chemistry. This course covers the chemical nature of the cell. It deals with the variety of chemicals found in cells as well as the subcellular structures and components. It includes an extensive review of enzymes, cell membranes and transport, cell signalling, motility of cells and within cells, and extracellular adhesion and signals. The regulation, chemical synthesis, and transport of both RNA and proteins are also covered. Principles underlying cellular structure and function. Prerequisite BSc 1406 and 1407 and Chem 1412.

Note
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

BSC 304 - Genetics

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

This course is intended for biology and pre-professional majors with a solid understanding of general biology and general chemistry. Cell Biology is very helpful, and may be taken concurrently. This course covers essentially DNA, studying it at the molecular, organismal, and population levels. Students will cover the mechanisms of inheritance at the organismal level, including Mendelian and non-Mendelian inheritance and genetic recombination in viruses through humans. At the molecular level, topics include the structure and organization of DNA, DNA replication, techniques of DNA analysis (including recombinant DNA and DNA sequencing), and transgenic organisms. The final section of the course covers an introduction to
population genetics with a thorough treatment of the Hardy-Weinberg equation and evolution. Prerequisite BSc 1406 and 1407 and Chem 1412; BSc 303 strongly suggested

Note
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

Texas Common Course Number (BIOL 2416)
When Offered: SPRING ONLY

**BSC 305 - General Physiology**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

This course is designed for majors with a well-rounded background in biology. It provides students with an understanding of basic physiological principles and the functional organization of living systems. Emphasis will be placed on human physiology and the integrated functions of organ systems. Students are expected to learn the basic principles and concepts of human physiology both at the molecular and cellular levels, to learn to reason scientifically, and to understand and describe the cooperative function of multiple organ systems in the human body. Prerequisite: BSc 303.

Note
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

When Offered: FALL ONLY

**BSC 306 - Applied Microbiology**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

Comprehensive course in microbiology emphasizing modern applications. Prerequisite: BSc 303.

Note
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

When Offered (Spring)

**BSC 307 - Ecology**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

Ecology is the study of living things and their interaction with their environment. This class takes a hierarchical look at ecological processes from ecosystems to populations. Specific topics include the flow of energy and matter through global and local ecosystems, factors affecting production and biodiversity, zones of tolerance, ecological succession, ecotones and ecoclines, community ecology, niche theory, population models, and evolutionary arms races. Prerequisite: BSc 1407 or BSc 1413

Note
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

When Offered: FALL ONLY
**BSC 310 - Animal Behavior**

Hours: Three

An introduction to the principles of animal behavior with an emphasis on methods of observations and the proximate and ultimate causes of behavior. Aspects of physiology and development of behavior, instinct and learning, and modern cognitive ethology will be addressed. Prerequisite BSc 101, 102.

**BSC 335 - Wildlife Management I**

Hours: Three

The purpose of this course is to introduce students to the many aspects of wildlife and conservation science. It will provide an introduction to the history of wildlife management and conservation, ecosystems and ecology, population modeling, animal behavior, food and cover, wildlife diseases, predators and predation, and hunting and trapping.

When Offered (Fall)

**BSC 336 - Wildlife Management II**

Hours: Three

This course is designed to complement Wildlife Management I and provides an introduction to the many aspects of wildlife ecology and conservation science. Topics covered include water and soils, farmlands, rangelands, and forests, parks and refuges, urban wildlife management, and non-game and endangered species. Students are required to participate in field trips designed to give practical experience in wildlife management techniques.

When Offered (Spring)

**BSC 337 - Field Methods in Wildlife and Conservation Science**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

This course provides students with training in the methods used to collect quantitative data on plant and animal populations, animal movements and home ranges, habitat associations, and animal behavior. Field exercises are supplemented with lecture material emphasizing study design, statistics, and data interpretation.

Note Attendance of laboratory and field trips is mandatory.
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

When Offered Spring
BSC 401 - Senior Seminar

Hours: One

Discussions and presentations of issues of current interest in the biological sciences and of related career opportunities. Prerequisite: BSc 304, 305, 306, 307, concurrent enrollment in one or more of these classes or permission of instructor.

When Offered (Spring)

BSC 402 - Ornithology

Hours: Three

This course begins with an overview of current theories regarding the origins of birds and flight. This is followed by a brief survey the living orders and their biogeography. Other topics include the mechanics and adaptations for flight, avian physiology and anatomy, migration, communication and behavior, ecology, and avian conservation.

When Offered (Spring—even years)

BSC 404 - Vertebrate Biology

Hours: Three

This course takes a systematic approach to understanding vertebrate evolution, diversity and biology. It will follow the development of each vertebrate taxon through the fossil record from late Cambrian to the present. This is followed by discussions of vertebrate zoogeography, habitat and foraging, feeding modes, dispersal and migration, mating systems and parental care.

When Offered (Spring—odd years)

BSC 405 - Biology Internship

Hours: Three Lecture Lab/ Clock Hours Range of 3 to 6

This course, intended for Wildlife and Conservation Science Majors, provides the opportunity for students to gain hands-on experience in preparation for careers in wildlife management and biological research. Assignments will be at an approved work situation under supervision of a designated faculty member. A minimum of 140 hours of experience is required for 3 sh of credit. May be retaken for a total of 6 sh of credit.

BSC 406 - Mammalogy

Hours: Three Lecture Lab/ Clock Hours 3 lecture
The objective of this course is to survey the phylogenetic relationships, diversity, biology, and ecology of mammals, including an understanding of the characterization of the orders and families of the extant mammals based on morphological traits, evolutionary history, morphological, physiological, and behavioral adaptations.

**BSC 410 - Behavioral Ecology**

Hours: Three

This course examines the adaptive and evolutionary basis of animal behavior. It begins with an economic approach to behavior: optimality models and evolutionary stable strategies. This is followed by looking at predator-prey strategies, behavioral adaptations for competition, social behavior, aggression and fighting, sexual conflict and sexual selection, parental care and mating systems, alternate reproductive strategies, and altruism.

**BSC 412 - Quantitative Biology**

Hours: Three

The objective of this course is to provide students with the knowledge and understanding of the methods of statistical analysis applicable to biological research. Emphasis will be placed on the concepts and application of statistical thinking. Basic probability theory, parametric and non-parametric statistics including t-tests, analysis of variance, correlation, regression, and other quantitative methods will be introduced. Prerequisite: MATH 1314

**BSC 414 - Evolutionary Biology**

Hours: Three

In-depth view of evolutionary theory including gene flow, genetic drift, mutation, molecular evolution, mechanisms of specialization, phylogenies, and the evolution of sex, and sexual selection.

**BSC 416 - Wildlife Population Biology**

This course outlines processes governing the abundance and distribution of animals and plants, and the consequences for natural resource management. Practical applications lie in wildlife management, sustainable harvesting of resources, pest control and conservation of endangered species. Topics will include mathematical models of population growth, population viability analysis, and metapopulations, dispersal, population harvesting, predation, population cycles, and competition. Prerequisite: Math 142, BSc 335, BSc 336, BSc 307. BSc 412 is strongly recommended.

**BSC 417 - Geospatial Mapping**
Hours: Three

The course will provide basic knowledge of the fundamentals of Geographic Information Systems (GIS), including GIS theory and applications. The course will take a hands-on and problem solving approach to learning GIS and will cover basic GIS including map characteristics and projections, spatial data models, relational databases, and spatial analysis with a focus on natural resource research and management and environmental science. Prerequisite: BSc 1407 or BSc 1413

When Offered (Fall—odd years)

**BSC 420 - Immunology**

Hours: Three

This course is designed for majors with a well-rounded background in biology. Therefore, this course provides students with an understanding of basic immunological principles and the functional organization of living systems. Emphasis will be placed on human physiology and the cooperative interplay between innate and acquired immunity. Students are expected to learn the basic principles and concepts of immunology both at the molecular and cellular levels, to learn to reason scientifically, and to understand and describe the function of immune systems in the human body. Prerequisite BSc 305.

When Offered (Spring—odd years)

**BSC 421 - Reproductive Physiology**

Hours: Three

A study of the development and function of the male and female reproductive systems of humans. Prerequisite BSc 305.

When Offered (Spring—even years)

**BSC 422 - Comparative Vertebrate Anatomy**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 4 lab)

The lecture material in this course explore the evolution of vertebrate structure and design among vertebrate tax. Emphasis is placed on the integument, skeletal, muscular, digestive, urogenital, respiratory, circulatory and nervous systems. Laboratory dissections, using the dogfish and the cat as models, are used to complement the lecture material.

When Offered (Spring— even years)

**BSC 423 - Endocrinology**

Hours: Three

The study of the human endocrine system and the mechanisms by which it maintains homeostasis. Prerequisite BSc 305.
When Offered (Fall—even years)

**BSC 424 - Toxicology**

Hours: Three

An overview of the basic science of poisons, including the disposition of chemicals in the body, the role of metabolism in enhancing or reducing their toxicity, mechanisms of toxicity and the effects of toxic ants on major organ systems. Prerequisite BSc 3054 and Chem 2114.

When Offered (Spring—odd years)

**BSC 425 - Fundamentals of Neuroscience**

Hours: Three

This course is intended for advanced undergraduate biology students who understand genetics and cell biology/biochemistry. The course is a survey introducing various aspects of neuroscience and is textbook based. The cell types of the nervous system are introduced, with emphasis on the molecular specializations used for these cells to function and develop connections to other cells. The structure, function, and processing of all 6 senses (including kinesthesia) are covered, as are muscle control circuits. More complex functions of the nervous system, including control of eye movements, hunger, sleep, addiction, speech, and learning and memory are also covered. Prerequisite: BSc 304

When Offered (Spring—even years)

**BSC 426 - Histology: Architecture and Function of Human Organ Systems**

Hours: Three

This three-hour course examines basic human histology from the cellular to the organ system levels using a set of prepared slides, texts, videos and other media. In this way students learn the relationship between cell structure and cell function, how tissue types differentiate and how organ architecture facilitates its function. Students in this class will learn normal histology as a foundation for understanding pathology. The emphasis is on classical histology of normal human tissues rather than diseased tissues, though some pathologies will be examined by comparison to normal tissues. Students will learn technical skills concerning microscopy and slide preparation. Prerequisite BSc 303 (previously BSc 203).

When Offered (Spring)

**BSC 430 - Topics in Microbiology**

Hours: Three

Studies of contemporary knowledge in the areas of: (A) virology and (B) pathogenic microbiology. Prerequisite BSc 306.
Note Course may be repeated if topic varies.

When Offered (Fall)

**BSC 431 - Eukaryotic Cell Biology**

Hours: Three

This course is the study of advanced knowledge of the eukaryotic cell including contemporary concepts of membranes, signal transduction mechanisms, messengers and receptors, extracellular structures, cell adhesions and attachment proteins, cell cycle and regulation, protein synthesis, sorting and targeting, cytoskeleton and cell movements.

When Offered (Fall—odd years)

**BSC 436 - Plant Diversity and Conservation**

Hours: Three

The course focuses on patterns and distribution of plant diversity and threats to plant diversity. Range of strategies and approaches used in plant conservation will be discussed.

When Offered (Fall)

**BSC 437 - Ecological Restoration of Plant Communities**

Hours: Three

The class is an introduction to landscape scale, process-oriented approaches to ecological restoration. Topics include enhancing resource capture, techniques in re-vegetation and restoration of historic vegetation. Prescribed fire and grazing as restoration and management techniques will also be addressed.

**BSC 461 - Biology for Middle School Teachers**

Hours: Three

This course will examine the necessary content for students wishing to teach at the fourth through eighth grade level. This course will combine both content and pedagogy. Emphasis will be placed on the content as expressed the Texas Essential Knowledge and Skills. Prerequisite Math 1314 and 8 sh of biological science or consent of instructor.

Note This course cannot be used for advanced credit for a biology major or minor.

When Offered (Summer I)
**BSC 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a consenting faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**BSC 490H - Honors Thesis**

**BSC 491H - Individual Honors Reading**

**BSC 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For descriptions of graduate courses see Graduate Catalog.

**BSC 1406 - Introductory Biology I**

Hours: Four semester hours Lecture Lab/ Clock Hours 3 Lec/3 Lab

BSC 1406 (BSC 101) - Introductory Biology I - Four semester hours (3 lec / 3 lab)
This course is the first half of the Introductory Biology series. It is designed for the following majors: Broadfield Biology, Pre-Med, Pre-Allied Health, and Pre-Vet. Topics covered include biological evolution, biochemistry, cellular and molecular biology, genetics, and microbiology. Note All courses carrying four semester hours have labs. Students must register for both lecture and lab sections.

**BSC 1407 - Introductory Biology II**

Hours: Four semester hours Lecture Lab/ Clock Hours 3 Lec/3 Lab

This course is the second half of the Introductory Biology series. It is designed for the following majors: Broadfield Biology, Pre-Med, Pre-Allied Health, and Pre-Vet. Topics covered include evolution, the diversity of life, immunology, endocrinology, neurobiology, ecology and behavior. Prerequisite: a grade of C or better in BSc 101. Note All courses carrying four semester hours have labs. Students must register for both lecture and lab sections.
**BSC 1409 - Human Biology: Structure and Function**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

BSC 1409 - (BSC 107) - This (University Studies) course is designed to apply the principles of biology to humans as a functional unit of our social organization.

Note
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

Texas Common Course Number (BIOL 1409)
When Offered Fall, Spring

**BSC 1411 - Botany**

Hours: Four Lecture Lab/ Clock Hours 3 lecture / 2 lab

BSC 1411 - (BSC - 131) - This course is designed for students majoring in Agricultural Science, Plant and Soil Science, Wildlife and Conservation Science, and in Environmental Science. Students are introduced to the structure and function of plants as well as their diversity and ecology. Topics covered include plant cellular and gross anatomy, plant physiology and biochemistry, genetics, evolution, classification, and biogeography

Note All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

Texas Common Course Number (BIOL 1411)
When Offered Fall Only

**BSC 1413 - Zoology**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

BSC 1413 - (BSC 102) - This course is designed for students in Agricultural Science, Plant and Soil Science, Animal Science, Wildlife and Conservation Science, and in Environmental Science. Students are introduced to animal cellular biology and physiology, animal diversity and classification, and the biogeography and ecology of animal populations. Topics covered include cellular metabolism, animal physiology and genetics, developmental biology and architectural patterns, evolution, and the diversity of animal life.

Prerequisite : a grade of C or better in BSC 101

Note All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

Texas Common Course Number (BIOL 1413)
When Offered Spring Only

**BSC 2401 - Human Anatomy and Physiology I**
Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

BSC 2401 - (BSC 251) - Study of the structure and functions of human organ systems.

Note
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

Texas Common Course Number (BIOL 2401)
When Offered (Fall)

BSC 2402 - Human Anatomy and Physiology II

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab).

BSC 2402 - (BSC 252) - Study of the structure and function of human organ systems.

Note (Continuation of BSc 251).
All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

Texas Common Course Number (BIOL 2402)
When Offered (Spring)

CAS 111 - Critical Thinking

Hours: 1 to 3

CAS 112 - Human-Animal Connections

Hours: Three

Course describes the complexities of the multiple relationships (economically, historically, etc.) that humans have and have had with animals.

Note Animals have altered their places in society from beasts of burden and food sources, to food sources, companions, helpers, rescuers, and many other roles. In this country, more and more uses of animals, particularly dogs and horses, are being made for their therapeutic/medical value in illnesses, physical handicaps, and emotional disturbances. In the “war on terrorism,” dogs are often our front-line of defense, but many other species of animals are also widely used, such as dolphins and seals. Animals are also widely used in many rehabilitation programs, from schools to prisons. One of their newer uses is in classrooms to increase attention and retention of materials by students.

CBT 111 - Critical Thinking

Hours: 1 to 3
CED 111 - Critical Thinking

Hours: 1 to 3

CHEM 101 - General Chemistry Tutorial I

Hours: One

Practice in chemical reasoning and solving of conceptual and numerical problems in general chemistry. Review and application of mathematical skills in chemistry. Corequisite Chem 1411.

Texas Common Course Number (CHEM 1104)
When Offered (1)

CHEM 102 - General Chemistry Tutorial II

Hours: One

A continuation of Chemistry 101. Further practice in chemical reasoning and solving of conceptual and numerical problems in general chemistry, especially those concerning chemical equilibrium and reactions. Corequisite Chem 1412.

When Offered (2)

CHEM 201 - Organic Chemistry Tutorial I

Hours: One

Practice in chemical reasoning and problem solving in organic chemistry. Review and application of relevant facts and principles of general chemistry and organic chemistry. Corequisite Chem 211.

When Offered (1)

CHEM 202 - Organic Chemistry Tutorial II

Hours: One


When Offered (2)

CHEM 211 - Organic Chemistry I
An integrated introductory course in organic chemistry. The reactions of caliphate and aromatic compounds are considered in terms of molecular orbital theory; carbonium ion, carbanion and free radical reaction mechanisms; stereo-chemistry and molecular conformation; and transition state theory and techniques of organic synthesis. Prerequisite Chem 1412 with grade of “C” or better or consent of the instructor. Corequisite Chem 201.

Note Credit will not be given for both Chem 108 and 211.

Texas Common Course Number (CHEM 2423)
When Offered (1)

**CHEM 212 - Organic Chemistry II**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 4 lab)

A continuation of chemistry 211. The chemistry of polyfunctional aliphatic compounds, amino acids and proteins, sugars, and carbohydrates, polyclinic and heterocyclic compounds. Prerequisite Chem 211 with a grade of C or better. Corequisite Chem 202.

Texas Common Course Number (CHEM 2425)
When Offered (2)

**CHEM 302 - Introductory Criminalistics**

Hours: Three

An introductory course in criminalization and forensic sciences. Theory and practice of scientific methods of analysis used in detection, investigation and solution of crimes will be covered. Prerequisite Completion of math and science general studies requirements.

Note This course cannot be used for a major or minor in chemistry or broadfield science requirements.

When Offered (2)

**CHEM 314 - General Biochemistry**

Hours: Three

Nomenclature, structure, and function of major biomolecules and study of life processes involving them. Topics include enzymology, metabolism, molecular genetics, and biosynthesis. Treatment is qualitative, with very few quantitative considerations. Whenever appropriate, biochemistry is related to biological and health issues. Prerequisite BSc 1406, 1407, and Chem 212; or consent of the instructor.

Note For majors in life sciences and students interested in health professions such as veterinary medicine, osteopathic medicine, pharmacy, and dentistry.
CHEM 340 - Quantitative and Instrumental Analysis

Hours: Four Lecture Lab/ Clock Hours (2 lecture, 8 lab)

The theories and techniques of classical quantitative analysis and modern instrumental analysis will be covered. Prerequisite Chem 1412.

When Offered (1)

CHEM 351 - Physical Chemistry I

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 4 lab)

This course introduces the student to the field of physical chemistry, and consists of a presentation of the fundamental theories of chemistry, involving a detailed study of the properties of matter in the gaseous, liquid, and solid states. Properties of solutions, colloids, and elementary principles of thermodynamics and thermo chemistry are given extensive consideration. Prerequisite Chem 1412 or equivalent; Math 192; Math 314 (may be taken concurrently), or consent of the instructor.

When Offered (1)

CHEM 352 - Physical Chemistry II

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 4 lab)

A continuation of Chemistry 351 including a detailed study of chemical kinetics, atomic structure, and quantum mechanics.

Prerequisite and/or Corequisite Chemistry 351; Math 314; Physics 2425, 2426; or consent of the instructor.

When Offered (2)

CHEM 397 - Special Topics

Hours: One to Four Lecture Lab/ Clock Hours (3 lecture, 0 lab)

Organized class.

Note May be repeated when topics vary.

CHEM 401 - Chemical Science and Profession

Hours: One
Topics in chemical research, professional concerns, and employment trends are treated in seminar format. Prerequisite Consent of instructor.

Note The course may be taken as many as four times for credit. This course integrates students’ knowledge from other chemistry courses and prepares students for future careers.

Prerequisite and/or Corequisite Chem 351.

When Offered (1, 2)

**CHEM 407 - Science and Society, Contemporary Issues**

Hours: Three

In this University Capstone science course, two or three contemporary science issues of importance to the global society will be studied from various points of view including scientific, political, and economic.

Note This course cannot be used for a major or minor in science.

Capstone (Capstone)

**CHEM 414 - Biochemistry**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 4 lab)

Structure and function of large and small biomolecules involved in metabolism and information transfer in living organization course treats both chemical and biological processes and their me mechanisms. For students majoring in chemistry and life sciences, especially those interested in scientific, medical, or similar professional career. Working knowledge of college algebra is sufficient for success.

Prerequisite and/or Corequisite Chem 212, 351 and Math 192; or consent of instructor.

When Offered (1)

**CHEM 415 - Inorganic Chemistry**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 4 lab)

Structure of molecules and solids and chemical bonding in them; reactions of chemical elements and their various compounds; industrial and other applications or inorganic chemicals. Laboratory deals with synthesis, instrumental characterization, and reactions of interesting compounds. Prerequisite Chem 340.

Prerequisite and/or Corequisite Chem 351.

When Offered (2, odd years)
CHEM 418 - Undergraduate Research

Hours: One to Three

Prerequisite Consent of the faculty prior to registration. Restricted to those students taking the professional chemistry sequence.

Note May be repeated for up to six (6) hours credit.

When Offered (1, 2, 3, 4)

CHEM 441 - Instrumental Analysis

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 4 lab)

Instrumentation and laboratory techniques that are used in the modern analytical laboratory are discussed. The lecture presents the phenomenological basis for the techniques, applicability of the technique, and the instrument design. The laboratory demonstrates the use of some of the instruments. Some of the techniques that are discussed are: ultraviolet and visible, fluorescence and phosphorescence, flame emission and atomic absorption, infrared and Raman, X-ray, nuclear magnetic resonance, and mass spectroscopy. Chromatography and electroanalytical methods are also discussed. Prerequisite Chem 340 and 351, or consent of the instructor.

When Offered (2, even years)

CHEM 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

CHEM 490H - Honors Thesis

Hours: One to Six

CHEM 491H - Honors Readings

Hours: One to Three

CHEM 497 - Special Topics
CHEM 1405 - Survey of General Chemistry

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

CHEM 1405 - (CHEM 107) - A one semester survey of the fundamentals of chemistry, covering the basic physical principles and the descriptive chemistry of the metals and non-metals, with applications to related fields. Prerequisite Math 1314, 1324, or 179 (concurrently).

Note This course is not suitable for biological science majors or minors. (Students planning to enter professional and/or graduate schools should elect Chemistry 211-212.)

Texas Common Course Number (CHEM 1405)
When Offered (1)

CHEM 1407 - Survey of Organic and Biochemistry

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

CHEM 1407 - (CHEM 108) - A one semester survey of organic chemistry. The course treats the principles, nomenclature, reactions and methods of synthesis of organic compounds. Special attention is given to the chemistry of biological processes. Prerequisite Chem 1405 or 1411 or 1412.

Note This course is not suitable for biological science majors or minors. (Students planning to enter professional and/or graduate schools should elect Chemistry 211-212.)

Texas Common Course Number (CHEM 1407)
When Offered (2)

CHEM 1411 - General and Quantitative Chemistry I

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 4 lab)

CHEM 1411 - (CHEM 111) - This course is primarily for students majoring in the scenes of in pre-professional programs. The lecture covers the fundamental last, theories and deceptive aspects of chemistry Problem solving is stressed. Prerequisite Math 1314 (concurrently or adequate high school mathematical preparation). Corequisite Chem 101.

Texas Common Course Number (CHEM 1411)
When Offered (1, 3)
CHEM 1412 - General and Quantitative Chemistry II

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 4 lab)

CHEM 1412 - (CHEM 112) - A continuation of Chemistry 1411. Prerequisite Math 1314 and Chem 101 and 1411 with a grade of “C” or better or the consent of the instructor. Corequisite Chem 102.

Texas Common Course Number (CHEM 1412)
When Offered (2, 4)

CJ 101 - Introduction to Criminal Justice

Hours: Three

An overview of law enforcement, courts and corrections from historical, ethical, philosophical, and practical perspectives. A focus on defining crime, searching for its causes, and studying its impact on society through the investigation and arrest of suspects, prosecution and defense of the accused, and punishment and rehabilitation of criminals.

Texas Common Course Number (CRIJ 1301)

CJ 201 - Police and Law Enforcement

Hours: Three

A general survey of the history and social issues involved in law enforcement in a democratic society with significant problems of crime. The course will also focus on aspects of police administration and police-community linkages.

Texas Common Course Number (CRIJ 2328)
When Offered (2)

CJ 301 - Criminal Investigation

Hours: Three

An examination of theories and practices of the investigation process in the criminal justice system. An analysis of information and application of operational techniques relating to crime scenes, forensic sciences, interviews, and interrogations. A study of issues concerning rules of evidence, trial testimony, and other constitutional processes.

When Offered (1)

CJ 326 - Juvenile Delinquency
Hours: Three

The study of the nature, extent, causation, treatment, and prevention of juvenile delinquency.

**CJ 330 - Crime and Criminology**

Hours: Three

The scientific study of the creation, causation, and societal reaction to crime. Focus is on criminological theories and developing a sociological understanding of trends and patterns of specific crimes and types of criminal offenders.

**CJ 360 - Mass Media and Crime**

Hours: Three

This course examines the media’s effects on perceptions of crime and justice in America. An examination is performed on media-generated crime and criminal justice policies. An example of media-generated crime would be when politicians/media “emphasize” a problem to essentially “create” a crime or crime wave. A discussion of the effect of social constructionism and the ability of the various types of media to create a new type of crime will occur. An investigation of the impact of various types of media (radio, television, motion pictures, records, and printed sources, etc.) on criminals, crime fighters and the courts will be conducted. An example of criminal topics to be discussed is the drug problem, sex offenders, murders, etc.

When Offered (2)

**CJ 383 - Criminal Justice Planning and Administration**

Hours: Three

The study of criminal justice administration (i.e., police, courts, and corrections) with special emphasis on applying theoretical concepts to practical planning and application, including the policy-making process, implementation of new policy, and policy assessment.

**CJ 390 - White-Collar Crime**

Hours: Three

This course examines the theories, ideas, nature and scope that are dominant in the field of white-collar crime. An examination of the structural foundation of occupational, political, and organization/corporate crimes, with some comparison with street (predatory) type crimes will occur in this class. Multi-level responses and forms of intervention will also be discussed.

When Offered (1)
CJ 420 - Crime Profiling

Hours: Three

This course examines various types of crimes, in terms of offender profile, victim profile, and situational elements, using both national crime and victimization data. Within each crime typology, data are utilized to examine the characteristics of the most likely offender, and the circumstances under which the crime is most likely to be committed. Pertinent theories are examined, relating to both the crimes and offenders, by types of crimes. Responses to each type by law enforcement agencies are also discussed.

When Offered (2)

CJ 430 - Courts and Criminal Procedure

Hours: Three

A survey of federal, state, and local judicial systems with an emphasis on pretrial, trial, and appellate criminal procedure. A description of court structures and roles of the judges, prosecutors, defense attorneys, juries, and other court personnel.

Prerequisite CJ 101 or equivalent.

When Offered (1)

CJ 431 - Criminal Law

Hours: Three

Introduction to the basic concepts, principles and the nature of criminal law. The course also examines the mutual relationships between criminal law and society.

When Offered (1)

CJ 468 - Correctional Systems

Hours: Three

A theoretical, historical, and pragmatic overview of institutional corrections, including the administration, design, and organization of adult prisons and jails and juvenile detention facilities and reformatories. An examination of punishment and treatment philosophies and objectives.

Prerequisite CJ 101 or equivalent.

When Offered (1)

CJ 470 - Criminal Justice Internship I
Hours: Three

An academically based work experience within selected agencies of the criminal justice system. The purpose of the internship is to provide an arena for the application of classroom principles within the context of the day to day reality of the criminal justice system. The internship includes field supervision as well as classroom experiences. Prerequisite Junior standing with 12 hours in criminology, law enforcement, and permission of the instructor.

Note Students with previous work experience within the criminal justice system are not eligible.

When Offered (1)

CJ 478 - Community-Based Corrections

Hours: Three

A study of probation, parole, diversion, pre-trial release, and intermediate sanctions. A critical analysis of the statutes and policies relating to the administration of community-based correctional programs.

When Offered (2)

CJ 480 - Senior Seminar in Criminal Justice

Hours: Three

A review and discussion of significant current research and case studies in the criminal justice field. Examination and application of methods of transferring theoretical perspectives, knowledge, and skills from academics to the work environment. An overview of career opportunities, resume preparation, and job interviewing skills. Prerequisite CJ 101, declaration as a Criminal Justice major, and completion of at least 90 semester hours.

When Offered (2)

CJ 488 - Ethics in Criminal Justice

Hours: Three

A review of ethical theories and their application to the fields of law enforcement, courts, and corrections. The development of ethical reasoning, familiarity of professional standards and codes of ethics, and resolution of complex ethical dilemmas.

CJ 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.
Note May be repeated when the topic varies.

**CJ 497 - Special Topics**

Hours: Three

Organized class.

Note May be repeated when topics vary.

**CONE 211 - Statics**

Hours: Three

General principles of mechanics; concurrent force systems; statics of particles; equivalent force/moment systems; centroids and center of gravity; equilibrium of rigid bodies; trusses, frames, internal forces in structural members; friction; second moments of areas.

Prerequisite MATH 192 and PHYS 211

**CONE 212 - Dynamics**

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Kinematics and kinetics of individual particles and systems of particles utilizing Newton’s Laws of Motion, the Principle of Work and Energy, and the Principle of Impulse and Momentum; steady and variable mass flow. Prerequisite: CONE 211

**CONE 221 - Construction Materials & Methods**

Hours: Three Lecture Lab/ Clock Hours 2 Lecture, 2 Lab

Construction materials and methodologies related to commercial construction. Selection, acquisition, and utilization of concrete, steel, masonry and wood in a variety of construction applications
CONE 231 - Construction Estimating

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Principles and application of construction estimating including quantity takeoff, pricing of materials, classification of work, labor, overhead, specifications, bid procedures, and project scheduling. Computerized estimating and scheduling software is introduced.

Prerequisite: CONE 221

CONE 331 - Mechanics of Materials

Hours: Three Lecture Lab/ Clock Hours 2 Lecture, 2 Lab

Applications of conservation principles and stress/deformation relationships for continuous media to structural members; axially loaded members; thin-walled pressure vessels; torsional and flexural members; shear; moment; deflection of members; combined loadings; stability of columns; nonsymmetrical bending, shear center; indeterminate members; elastic foundations.

Prerequisite: CONE 211

CONE 341 - Engineering Hydrology & Hydraulics

Hours: Three Lecture Lab/ Clock Hours 2 Lecture, 2 Lab

Design of water distribution systems and open channels; selection of pumps and turbines; hydraulics of wells; basic engineering hydrology including precipitation, infiltration, runoff, flood routing, fluid flow in pipe, statistical measures and water resources planning. Prerequisite: CONE 212 and CONE 221

CONE 351 - Field Engineering & Surveying

Hours: Three Lecture Lab/ Clock Hours 2 Lecture, 2 Lab

Techniques and procedures used in field engineering practices related to construction projects. Surveying instruments, topographic, building and site layout, and precision dimension control.

Prerequisite: CONE 221

CONE 411 - Steel & Concrete Design

Hours: Three Lecture Lab/ Clock Hours 2 Lecture, 2 Lab
Planning and field engineering for concrete and steel construction. Structural mechanics of concrete beams, slabs, columns, walls and footings. Steel structures including tension members, compression members, flexural members, connections, and building codes. Prerequisite: CONE 221 and CONE 331.

CONE 412 - Structural Analysis & Design

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Functions of structure, design loads, reactions and force systems; analysis of statically determinate structures including beams, trusses and arches; energy methods of determining deflections of structures; influence lines and criteria for moving loads; analysis of statically indeterminate structures including continuous beams and frames. Prerequisite: CONE 221 and CONE 331.

CONE 421 - Construction Safety

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Safety and loss control concepts, practices, and skills to improve construction job site safety; OSHA regulations, accidents, documentation, safety policies and procedures, safe work environments, crisis management, risk management, and other safety related topics. Prerequisite: IT 340.

CONE 422 - Construction Engineering Management

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Study of construction operations, project management and project planning. Includes project selection, estimating bidding, scheduling, subcontracting practices, cost controls, project documentation, construction bonds, insurance, payments, elements of close out and reporting of an engineering project. Prerequisite: BA 301 and CONE 231.

CONE 423 - Contracts and Specifications

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Legal and contractual aspects of construction, types of construction contracts, contractual
relationships among different parties, construction administration, insurance, and concepts in value engineering  Prerequisite CONE 422

**CONE 425 - Construction Planning, Scheduling, and Control**

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Planning, scheduling, and management of time, costs, and other resources within a construction project  Prerequisite : CONE 422 and IE 207

**CONE 431 - Sustainable Construction Methods & Processes**

Hours: Three Lecture Lab/ Clock Hours 2 Lecture, 2 Lab

Sustainable construction materials and methodologies related to commercial construction, including LEED/Green certifications  Prerequisite : CONE 221 and senior classification.

**CONE 432 - Soil Engineering**

Hours: Three Lecture Lab/ Clock Hours 2 Lecture, 2 Lab

Determination of civil engineering properties of soil and their behavior, identification, grain size analysis, compaction, permeability, consolidation, and shear strength.  Attention is given to foundation system selection, design, and construction methods  Prerequisite : CONE 221 and CONE 341

**CONE 471 - Construction Engineering Internship**

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Occupational experience in the construction engineering field. Work experience is cooperatively planned by the faculty and employer to fulfill the student’s objectives  Prerequisite : Construction science major, senior classification and consent of the Department Head.

**CONS 235 - Environmental Control Systems**
Environment control parameters; emphasis on the thermal environment; preparation of design and drawings for a building heating/air conditioning system. Prerequisite Math 141, 142

**CONS 253 - Construction Materials and Methods**

Hours: Three

Materials, assembly techniques and methods, and sequences of the commercial construction process. Emphasis on design, specifications, materials acquisition and the utilization of concrete, steel, masonry and wood in construction. Prerequisite Math 142 or 176

**CONS 331 - Field Engineering and Building Codes**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Study of techniques and procedures used in field engineering practices related to construction projects. Laboratory experiences include use of surveying instruments, topographic, building and site layout, and precision dimension control. Pre-requisite: Math 142 or 176 Prerequisite

**CONS 332 - Soil Mechanics and Foundation Design**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Study of soil mechanics as related to construction projects. Laboratory experiences include sieve analysis, optimum moisture density, compaction, and plasticity index experiments. Attention is also given to foundation system selection, design, and construction methods. Prerequisite Math 142

or
176; CONS 329

**CONS 389 - Independent Study**

Hours: One to Three

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Pre-requisite: Consent of Department Head. May be repeated when the topic varies.

**CONS 397 - Special Topics**
CONS 411 - Architectural Drafting/Design

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

This course includes architectural symbols, building standards, and construction details. Elements of architectural history, building materials, construction techniques, and contemporary architectural design will be studied. Prerequisite IT 111 or Consent of the Department Head

CONS 471 - Construction Internship

Hours: Three

Occupational experience in construction. Work experience is cooperatively planned by the and employer to fulfill the student’s objectives. Pre-requisite: CONS major, junior standing and consent of the Department Head.

Note Weekly conferences, assignments and reports required. Application for internship course should be made 30 days before registration (contact Department Office for applications).

CONS 489 - Independent Study

Hours: One to Three

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite
Consent of the Department Head

Note May be repeated when the topic varies.

CONS 497 - Special Topics

Hours: Three

Organized class.

Note May be repeated when topics vary.
COUN 301 - Orientation to the Counseling Profession

Hours: Three

A study of general professional issues including ethics, history, credentialing, professional associations, and roles of counselors in various settings

When Offered (1, 2)

COUN 315 - Philosophy of the Helping Relationship

Hours: Three

This course is designed to create an understanding of helping intercommunication skills (such as active listening, responding, and interviewing skills) for building helping relationships are developed.

When Offered (1)

COUN 316 - Parent and Family Dynamics

Hours: Three

Approaches to parenting; assessment and development of parenting skills; communication systems; study of children and families with various cultural patterns and lifestyles.

When Offered (1)

COUN 317 - Introduction to Assessment

Hours: Three

Emphasis will be given to the use of standardized and non-standardized procedures to assess and appraise human behavior. Use of test and non-test data will also be covered. Emphasis will also be given to the use of appraisal and assessment methods in a variety of settings, including school, business, mental health, and human services.

When Offered (2)

COUN 409 - Group Leadership

Hours: Three

This course will focus on the literature on groups, group dynamics and leadership. The class will also offer personal experiences
in individual growth through group participation.

When Offered (2)

**COUN 410 - Introduction to Counseling Theory and Methods**

Hours: Three

This course provides a general overview of counseling theories, an introduction to counseling techniques, the conditions which facilitate an effective counseling relationship, and stages in the counseling process.

When Offered (1)

**COUN 412 - Career Development**

Hours: Three

A study of the impact of career services as an instrument of human development and mental health. Emphasis on history of career guidance, contemporary shifts on social values in and the meaning of work, changes in the occupational structure, and work and mental health in today's society.

When Offered (2)

**COUN 414 - Home and Family Living**

Hours: Three

Functional study of modern family with special attention to roles, marriage preparation and partner selection. Emphasis on marital adjustment and other essentials of successful home and family life. Examination of current, relative issues of human relations including family planning, sex education, divorce, communications, and marriages under special circumstances.

When Offered (2)

**COUN 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note May be repeated when the topic varies. Consent of head.

**COUN 497 - Special Topics**
CSCI 126 - Microcomputer Applications

Hours: Three

An introduction to computers, network communications, and information systems. This course provides the student with knowledge about hardware, software and data management systems. The student is provided experience with an operating system environment, application software including productivity tools, and the use of the internet to communicate and search for information.

Note This course will not count toward a major or minor in computer science or computer information systems.

Texas Common Course Number (COSC 1301)

When Offered (1, 2, 3)

CSCI 131 - Visual Basic Net Programming

Hours: Three

This course is designed to provide the student with introductory computer programming skills using an object-oriented computer language. Topics to be covered are algorithms and problem-solving, fundamental programming constructs such as sequence, selection, iteration, and functions, object-oriented interface and program design, and event-driven computer programming with an emphasis on business applications. Prerequisite MIS 128, Math 1314 or 1324.

Note This course will not count toward a major or minor in computer science or computer information systems.

CSCI 141 - Introduction to Computer Systems Hardware and Software Components

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

This course is equivalent to the A+PC Maintenance Semester I and II in preparation for A+ Certification. It involves the study of computer hardware systems and the configuration of computer systems and subsystems. The course emphasizes the distinction between hardware and software failures in computing systems. Topics include an introduction to computer organization, computing components, troubleshooting of hardware as related to software systems. Prerequisite CSci 126/CSci 151.

CSCI 151 - Programming Fundamentals I
Introduction to Graphical Rendering

This course will teach students how to use a high end 3D graphics package. It will familiarize students with the layout of the screen(s) and the terminology used in the 3D graphics community. Students will be expected to have experience working with windows and other 2D graphics packages. Specifically, the SoftImage graphics package will be used. Prerequisite CSci 151 or consent of instructor.

Machine Language and Computer Organization

Basic computer organization; machine cycle; digital representation of data and instructions; assembly language programming.
assembler, loader, macros, subroutines, and program linkages. Prerequisite CSci 151.

Texas Common Course Number (COSC 2325)
When Offered (1, 2, 3)

CSCI 251 - Introduction to Information Security, Law, and Ethics

Hours: Three

An introduction to the various technical and administrative aspects of Information Security and Assurance as related to computing, ethics, and major national laws. Philosophical foundations of ethical issues will be discussed that include the history and social context of computing, methods and tools of analysis, social and professional responsibility, intellectual properties, privacy, computer crime, and civil liberties. Current legal issues in information technology are addressed. Prerequisite CSci 151.

CSCI 270 - Data Structures and Algorithms

Hours: Three

Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), and algorithmic analysis. Prerequisite CSci 152.

Texas Common Course Number (COSC 2336)
When Offered (1, 2, 3)

CSCI 311 - Multimedia I

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

An introduction to producing multimedia presentations. Students learn authoring techniques to incorporate digital imagery, audio and video into a running interactive presentation. Prerequisite Permission of the instructor or Art 1304.

Cross Listed/ Same As Same as Art 311

CSCI 312 - Internet Development I

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Introduction to website design and publishing. Students learn the basics of HTML programming in order to incorporate graphics into functional interactive sites, including HTML tags, frames and scripting. Prerequisite Art 1304 and Art 309 or Pho 250 or permission of the instructor.

Cross Listed/ Same As Same as Art 312
CSCI 317 - Numerical Analysis

Hours: Three

Computer algebra systems will be introduced. Topics include methods for approximate solutions of equations in one variable, polynomial approximation methods, numerical calculus, numerical solutions to ordinary differential equations, linear systems of equations and difference equations. Prerequisite CSci 152. Corequisite Math 192.

Cross Listed/ Same As Same as Math 317

CSCI 319 - Scientific Computing

Hours: Three

Applications of computers in scientific research. Topics to be covered include molecular dynamics simulations, Monte Carlo simulations, genetic algorithms, and animations for visualization of results. Prerequisite Phys 2425 and CSci 151 or consent of instructor.

Cross Listed/ Same As Same as Phys 319

CSCI 321 - Survey of Algorithmic Languages

Hours: Three

An introduction to syntax and semantic issues in existing algorithmic languages. Topics include data specification and handling, storage management, and sequence control in programs. Specific languages covered in the course may vary. Prerequisite CSci 270.

When Offered (1)

CSCI 322 - Computer Organization

Hours: Three

A study of the interconnected components of a digital computing system, particularly with regard to current technology. Computer buses; memory organization; input/output subsystems and interrupts; CPU designs; instruction sets; RISC and CISC machines. Operating system considerations; microprogramming; super scalar and parallel machines. Prerequisite CSci 241.

When Offered (1)

CSCI 332 - Digital Logic and Circuitry

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)
This course covers the fundamentals necessary to apply state-of-the-art digital components to practical problems in computing and scientific research. Components are constructed, operated, and tested in a laboratory environment. Typical topics covered are digital information and number systems, switching algebra and logic networks, flipflop, registers, gates, and arithmetic processors such as adders and counters.

**Cross Listed/ Same As** Same as Physics 332

**CSCI 340 - Introduction to Database**

Hours: Three

This course is an introduction to database systems and information management. It is designed to develop entry-level knowledge and skills in data modeling, design, and the representation of information in relational database systems. Structured Query Language and advanced features of relational database systems will be utilized to develop database applications. In addition, this course will include topics on the physical characteristics of databases, techniques for improving access to information, and improving performance and reliability with relational database systems. Prerequisite CSci 233 or 270 or departmental approval.

When Offered (1)

**CSCI 341 - Introduction to Networking Basics**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

The course focuses on network terminology and protocols, local-area networks (LAN), wide-area networks (WANS), Open System Interconnection (OSI) models, cabling, cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing and basic network standards. Hands-on labs are used to reinforce concepts, provide a skill set, and enhance learning. Prerequisite CSci 151 or permission of instructor.

When Offered (1)

**CSCI 342 - Routers and Routing Basics**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

This course is a continuation of CSci 341. Topics include initial router configuration, Cisco IOS Software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Students will develop skills on router configuration and creating and applying access control lists. Prerequisite CSci 341 or equivalent.

When Offered (2)

**CSCI 343 - Switching, Intermediate Routing, and WAN Technologies**
Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab).

Students enrolled in this class will focus on advanced IP addressing techniques (Variable Length Subnet Masking—VLSM), intermediate routing protocols (RIP v2, single-area OSPF, EIGRP), command-line interface configuration of switches, Virtual LANS (VLANS), Spanning Tree Protocol (STP), VLAN Trunking Protocol (VTP), Network Address Translation (NAT), Port Address Translation (PAT) and DHCP, WAN technologies and terminology, PPP, ISDN, DDR, Frame Relay, network management, and an introduction to optical networking. Hands-on labs are used to reinforce concepts, provide a skill set, enhance learning, and prepare students for taking the CCNA exam. Prerequisite CSci 342 or equivalent.

**CSCI 351 - Foundations of Information Security**

Hours: Three

This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. Prerequisite CSci 341.

**CSCI 352 - Introduction to Computer Law and Forensics**

Hours: Three

This course will introduce students to the fundamentals of computer forensics and cyber-crime scene analysis. The various laws and regulations dealing with computer forensic analysis will be discussed. Students will be introduced to the emerging international standards for computer forensic analysis, as well as a formal methodology for conducting computer forensic investigations. The course combines theory and hands-on learning. Prerequisite Junior standing and CSci 351.

**CSCI 359 - Systems Analysis and Design**

Hours: Three

Traditional and Object-Oriented methods for analysis, design, and implementation of computer based information systems; also includes project management and Computer Assisted System Engineering (CASE) tools. Prerequisite CSci 270, 340. Corequisite Or concurrent enrollment in CSci 340.

When Offered (1)

**CSCI 375 - Introduction to Computer Gaming**

Hours: 3 Lecture Lab/ Clock Hours Lec

This course introduces various computer gaming platforms and gaming programming techniques. The course will emphasize the XNA gaming platform and aspects of the C# programming language that pertain to gaming. Other topics include Open GL and DirectX as related to computer gaming. Prerequisite : CSCI 270
CSCI 380 - Web Programming and Interface Design

Hours: Three

This course provides students with a hands-on overview of current Web programming languages and Web multimedia technologies. Client/Server concepts will be discussed and implemented into student Web projects. Concepts relating to good interface design will be covered. The course will also explore how multimedia tools and features can be used to enhance Web sites. Prerequisite CSci 270 or consent of instructor.

When Offered (2)

CSCI 405 - Internship

Hours: Three

This course is offered to students having work internships within a computing, information technology, or related type of enterprise. Students are supervised by employing personnel and by CSci faculty. This course gives students the opportunity to earn course credit for the application of computing knowledge and skills used in the working environment. Prerequisite Junior or Senior standing in CSci and departmental approval.

CSCI 411 - Multimedia II

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

An introduction to producing multimedia presentations. Students learn authoring techniques to incorporate digital imagery, audio and video into a running interactive presentation. Prerequisite Art 1304 or permission of the instructor.

Cross Listed/ Same As Same as Art 411

CSCI 412 - Internet Development II

Hours: Four Lecture Lab/ Clock Hours (6 lecture/studio)

Introduction to web site design and publishing. Students learn the basics of HTML programming to incorporate graphics into functional interactive sites, including HTML tags, frames and scripting. Prerequisite Art 1304 and Art 309 or Pho 250 or permission of the instructor.

Cross Listed/ Same As Same as Art 412

CSCI 414 - System Administration

Hours: Three

This course provides experience using a UNIX-based operating system in a computer network environment. It includes the
installation and configuration of an open source operating system, a webserver, and a database server as well as server-side scripting. Also user management, network configuration, backup and recovery and security techniques. Prerequisite CSci 270 or consent of the instructor.

**CSCI 416 - Windows Programming**

Hours: Three

Windows Programming is a practical application course which provides students with the basic knowledge required for designing, developing, testing, debugging, and documenting applications within the Windows environment. Topics covered include Unicode, basic drawing (not DirectX), messages, text input/output, interfaces, menus, and dialog boxes. Prerequisite CSci 270.

**CSCI 428 - Object Oriented Programming**

Hours: Three

This course emphasizes current techniques in object oriented design, analysis, and programming. Such topics as encapsulation, information hiding, inheritance and polymorphism are studied in class assignments and programming exercises. The C++ programming language is utilized along with the UML modeling language. Prerequisite CSci 270 or permission of instructor.

**CSCI 430 - Operating Systems**

Hours: Three

A study of operating systems with emphasis on a multiprogramming environment; concentrates on principles involved in resource management; topics such as job scheduling and memory management are also studied. Prerequisite CSci 241 and 270.

When Offered (2)

**CSCI 431 - Java Language Programming**

Hours: Three

This course introduces the Java programming language. It is intended for advanced students and is a fast-paced course moving rapidly from basic concepts to more complex concepts. Topics covered will include: Basics (Data Types, Classes, File I/O), Graphical User Interface (Swing), Layout of GUI (Layout managers, Borders), Advanced concepts (Threads, Processes). Prerequisite CSci 270.

**CSCI 434 - Introduction to Local Area Networks**
This course covers the basic principles and operations of Local Area Networks (LANs). Topics include basic data communications, the OSI model, protocols and topologies. In addition, students will have the opportunity to gain practical experience with the installation and administration of various IPX/SPX and TCP/IP platforms. Prerequisite CSci 241 or permission of instructor.

Note Those wishing to take networking certification exams will find this course helpful.

**CSCI 440 - Applied Software Project Development**

Hours: Three

A capstone project to provide the student with experience with analysis, design and implementation of a semester project as a member of a systems development team. Prerequisite CSci 359, 380; (MIS 328 or permission of instructor).

When Offered (2)

**CSCI 444 - Networking II Routers and Switches**

Hours: 3 Lecture Lab/ Clock Hours LEC

This course is designed to introduce networking devices, the Cisco 2500 series router and the 1900 series data communications switch. Students will gain experience in the use and configuration of routers and switches through laboratory exercises. Also, such common network security techniques as Virtual Local Networks (VLANs) and Access Control Lists (ACLs) will be presented along with other network security topics. The class is organized such that 50% of the class time is spent in the networking laboratory and 50% of the class time will be lecture.

Corequisite :CSCI 434

**CSCI 449 - Automata Theory**

Hours: Three

This course teaches the general theory, concepts, and techniques related to the theory of automata. Practical examples related to programming languages are emphasized. Students will have the opportunity to utilize theoretical aspects of automata theory by performing a medium-scale design project. Topics include Finite Automata, Transition Graphs, Nondeterminism, Finite Automata with Output, Context-Free Grammars, Regular Grammars, Chomsky Normal Form, Pushdown Automata. Context-Free Languages, Non-Context- Free Languages, parsing, and Turing Machines. Prerequisite CSci 270, Math 192.

**CSCI 454 - Introduction to Network Security**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

The introduction to Network Security domain encompasses the structures, transmission methods, transport formats, and security
measures used to provide integrity, availability, authentication, and confidentiality for transmissions over private and public communications networks and media. This course will give the student both knowledge and hands-on practice in network security software, including preventive, defective, and corrective measures. Prerequisite CSci 342 or consent of instructor.

**CSCI 470 - Database Programming**

Hours: Three

A course on the development of database applications with an emphasis on programming for database access. It includes data storage and manipulation, information presentation with database connectivity using such application programming interfaces as stored procedures, embedded SQL, server pages and servlets. Topics in XML programming for data exchange are also included. Prerequisite CSci 340, 431.

When Offered (1,2)

**CSCI 471 - Database Administration**

Hours: Three

A course on the installation, management and control of database management system software, the database structures and data repository. It includes a study of database architecture, configuration control, security and integrity, recovery management, system performance measurement, and database tuning. Prerequisite CSci 340.

**CSCI 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**CSCI 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduate courses, see Graduate Catalog.

**ECE 313 - Child Development: Early Years**
This course examines theoretical and empirical research along with practical experience relating to young children. Cognitive, physical, social and affective developmental domains are explored and implications for curriculum design and learning environments are drawn.

Texas Common Course Number (TECA 1354 non-advance credit)

**ECE 358 - Language Acquisition Development in Early Childhood Education Field-Based Settings**

Hours: Three

This course explores children’s language and linguistic development, with special emphasis given to the nature and function of language, theories of language acquisition, language and cognition, developmental stages in learning to talk, dialectical difference, and partnering with parents to foster language and literacy development.

**ECE 364 - Survey of Theories Influencing Childhood Development**

Hours: Three

This course provides a survey of learning theories and processes. Special emphasis will be placed on cognitive theory as related to learning and performance. Basic theories and beliefs will be linked to programs they have helped form. Special emphasis will be placed on current emerging theories of early childhood development.

Texas Common Course Number (TECA 1311 non-advance credit)

**ECE 366 - Learning Environments**

Hours: Three

This course assists students in planning, designing and evaluating environments for young children. Early childhood organization, management, procedures and physical facilities are explored along with a survey of materials and equipment.

**ECE 460 - Early Childhood Curriculum**

Hours: Three

This course emphasizes an integrated approach to early childhood curriculum development for young children. Relates early childhood pedagogy, research, and content area knowledge to thematic and inquiry curriculum design. Prerequisite ECE 366.

**ECO 309 - Economic Forecasting**
Introduces the student to the economic forecasting approach through which economic theories and policy analysis can be stated and applied. Prerequisite Eco 2301, 2302; Math 176, BA 302.

Texas Common Course Number (Econ 2302)

**ECO 331 - Intermediate Macroeconomics**

Hours: Three

An analysis of national income and its components. Emphasis is placed on the relationship between saving, investment, and employment. Prerequisite Eco 2301.

When Offered (1)

**ECO 332 - Intermediate Microeconomics**

Hours: Three

Demand, cost, and supply functions of firms; sources of data for their estimation; functions of prices and markets. Application of principles to empirical problems, decisions, and situations. Prerequisite Eco 2302

When Offered (2)

**ECO 428 - International Trade and Finance**

Hours: Three

An analytical approach to assessing and understanding current impacts international economies have on the United States. Emphasis is on gains from trade, economic growth, exchange rates, price formation, trade policy, and political considerations. Prerequisite Junior standing.

**ECO 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.
ECO 490 - Honors Thesis in Economics

Hours: Three

This course satisfies the requirements for honors thesis and oral examination on the student’s chosen topic.

ECO 491 - Honors Readings in Economics

Hours: Three

This course satisfies the requirements for honors readings in economics on the student’s chosen topics.

ECO 497 - Special Topics

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduate courses, see Graduate Catalog.

ECO 2301 - Principles of Macro Economics

Hours: Three

ECO 2301 - (ECO 231) - Introduces the student to the workings and interrelationships of the U.S. and world economics. Principles of economic analysis including measurement of aggregate economic activity, national income determination, money and banking, monetary and fiscal policy, and business fluctuation. Emphasis is given to analyzing real world problems such as poverty, inflation, unemployment, and economic instability.

Texas Common Course Number (Econ 2301)

ECO 2302 - Principles of Micro Economics

Hours: Three

ECO 2302 - (ECO 232) - Introduces the student to the basic concepts and tools of analysis in microeconomics. Focuses on the operation of markets, with emphasis placed on the analysis of current problems such as health care, the environment, crime, education and regulatory reform. A major concern is how prices of individual goods and services are determined and how prices influence decision making.

ELED 200 - Schools and Society
A course that explores the culture of schooling and classrooms from the perspective of current political, social, and familial issues impacting schooling and classrooms. Students will participate in early field experiences with varied and diverse student populations; designed to analyze the learning environment and the human experiences of teachers and learners.

Note: Ten clock hours of professional field experiences are required.

Texas Common Course Number (EDUC 1301)

**ELED 300 - Introduction to Teaching**

Hours: Three

Knowledge and skills concerning the unique needs of special learners are emphasized in this course. In addition, structure, organization, and management of the American school system, as well as legal and ethical aspects of teaching, will receive attention. Prerequisite: Sophomore standing, must have passed TSI, and a minimum overall GPA of 2.5.

Note: Thirty clock hours of professional field experiences are required.

Prerequisite and/or Corequisite: ElEd 200.

**ELED 412 - Effective Teaching and Professional Growth**

Hours: Three

This course contains the body of knowledge necessary for understanding the relationship between effective teaching, professional growth, and lifelong learning. This course emphasizes theories and issues of education that are directly related to professional development including: site-based management, professional ethics, school environment issues, communication issues, education research, and political influences. Students will exhibit an understanding of the Texas teacher standards on professional development as assessed by TExES. Prerequisite: Enrollment is limited to students working as educational aides. Corequisite: Minimum overall GPA of 2.5 and must have passed TSI.

**ELED 414 - Management and Curriculum Development in Elementary Classrooms**

Hours: Three

The content of this course will include classroom management strategies, curriculum and lesson planning, teaching models, assessment models, and certification issues. Students will exhibit an understanding of the Texas teacher standards on professional development as assessed by TExES. Prerequisite: Permission of Head, minimum overall GPA of 2.5, admission to teacher education program, and must have passed TSI. Corequisite: ElEd 412.

Note: Enrollment is limited to students working as educational aides.

**ELED 415 - Effective Teaching in Elementary Classrooms**
Hours: Three

This course focuses on understanding theories and strategies that address the needs of all elementary students. Included in this course will be diversity issues, refinement of classroom management and planning techniques, Teaching strategies, and informal and formal assessment practices. Students will exhibit and understanding of the Texas teacher standards on professional development as assessed by TExES Enrollment is limited to students working as educational aides. Prerequisite ElEd 422.

Note ElEd 414, 4223, minimum overall GPA of 2.5, admission to teacher education program, and must have passed TSI.

**ELED 422 - Internship in Teaching**

Hours: Three to Six

This course provides supervised experiences in the elementary school classroom and undesigned students on aide waivers. Regular seminar sessions focus on issues directly related to elementary classroom teaching. Prerequisite Departmental approval limited to educational aide program.

**Cross Listed/ Same As** Same as SHEd 422

**ELED 436 - Integrated Learning: Math in Field-Based Settings**

Hours: Three

Explores the integrated nature of learning with math as the content focus. Seminars are conducted in CPDT centers; field-based applications take place in public schools under the guidance of public school teachers and university personnel that comprise the Instructional Leadership Team. Prerequisite ElEd 300; Rdg 350, 370; admission to teacher education program; placement in a NETCPDT center; minimum overall GPA of 2.5 and must have passed TSI.

**ELED 437 - Integrated Learning: Science in Field-Based Settings**

Hours: Three

Explores the integrated nature of learning with science as content focus. Seminars are conducted in CPDT centers; field-based applications take place in public schools under the guidance of public school teachers and university personnel that comprise the Instructional Leadership Team. Prerequisite ElEd 300; Rdg 350, 370; admission to teacher education program; placement in a NETCPDT center; minimum overall GPA of 2.5 and must have passed TSI.

**ELED 438 - Integrated Learning: Social Studies in Field-Based Settings**

Hours: Three

Explores the integrated nature of learning with social studies as content focus. Seminars are conducted in CPDT centers; field-based applications take place in public schools under the guidance of public school teachers and university personnel that
comprise the Instructional Leadership Team. Prerequisite ElEd 300; Rdg 350, 370; admission to teacher education program; placement in a NETCPDT center; minimum overall GPA of 2.5 and must have passed TSI.

**ELED 443 - Classroom Management for Teacher Candidates in Culturally Diverse Field-Based Settings**

Hours: Three Lecture Lab/ Clock Hours (1 lecture, 4 lab)

A field-based course, normally taught in Centers for Professional Development and Technology, in which prospective teachers develop and improve the skill of managing classroom environments, curriculum, space and time, and student behavior with culturally, economically, and educationally diverse student populations. Candidates acquire knowledge, skill, and ability by observing and working with experienced public school teachers in their elementary and/or middle school classrooms. Seminars are conducted in schools by teams of university and Pre-K-8 teachers.

Note Successful completion of internship in a NETCPDT center; minimum overall GPA of 2.5 and must have passed TSI.

**ELED 452 - Student Teaching in Field-Based Teacher Education Programs**

Hours: Six

This is a course requiring observation, participation, and directed teaching for residents enrolled in the Center for Professional Development and Technology (CPDT). Prerequisite Admission to teacher education; placement in a NETCPDT center; minimum overall GPA of 2.5 and must have passed TSI

**ELED 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note May be repeated when the topic varies. Consent of head.

**ELED 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For graduate, see Graduate Catalog.

**ENG 100 - Introduction to College Reading and Writing**
Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab) (Non-credit)

An introduction to those aspects of reading and writing necessary for college-level literacy. Students will write weekly and revise papers extensively in order to develop an understanding of (and appreciation for) the methods and purposes of revision and an ability to shape essays and frame arguments in effective and convincing ways. Students must prepare a Final Portfolio that proves they are ready to meet the demands of English 101.

Note Required of those students who have not passed the writing portion of the TASP or THEA exam, but also available to anyone who may desire additional preparation before enrolling in English 101. May not be used to satisfy any degree requirement. Students placed in Eng 100 must make a grade of “C” or higher before they can enroll in Eng 101. Eng 100 is based on a departmental requirement and is not directly related to THEA.

When Offered (1, 2; 3 or 4)

**ENG 104 - Basic Listening & Speaking for International Students**

This is a non-credit course for international students or students whose native language is not English and who need help with their academic English. Students work on a variety of tasks, skills, and techniques designed to improve their listening and speaking skills. The focus of instruction is on hands on knowledge directly relevant to the performance of the students in their other courses.

**ENG 105 - Basic Reading and Writing for International Students**

This is a non-credit course for international students or students whose native language is not English and who need help with their academic English. Students work on a variety of tasks, skills, and techniques designed to improve their reading and writing skills. The focus of instruction is on hands on knowledge directly relevant to the performance of the students in their other courses.

**ENG 110 - Developmental Writing and Reading**

Hours: Two Lecture Lab/ Clock Hours (1 lecture, 2 lab) (Noncredit)

A course designed to help students work through the various reading and writing projects assigned in their writing-intensive courses. Students work in small groups with a peer tutor in order to sharpen abilities to read the imperatives of a given writing or reading project/situation and shape discourse to successfully address these imperatives. Much emphasis is placed on the important ways that the reading or writing process used must take into account the writing or reading task at hand.

Note Required of those students who have not passed the reading portion of the THEA exam and those needing additional assistance following English 100, but also available to anyone who may desire supplemental assistance to English 101, 102, or other writing-intensive courses. May not be used to satisfy any degree requirement.
**ENG 189 - Independent Study**

Hours: 1 to 4 semester hour(s)

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.  
Prerequisite: Consent of head

Note: May be repeated when the topic varies.

**ENG 200 - Popular Literature and Culture**

Hours: Three

This course may cover a single popular medium, genre, author, or theme, such as science fiction, fantasy, mystery, romance, western, or horror, among others. This course may include popular literature in translation. Prerequisite Eng 102.

**Eng 201 - US-Intro to Literature**

Hours: 3 Lecture

(ENGL 2326) Introduction to Literature. Three semester hours. (1, 2; 3 or 4)  
An introduction to the three major genres of literature: poetry, drama, and fiction. The course is designed to develop discriminating reading habits, and the student may be required to make analyses and value judgments based on critical thought. Prerequisite: Eng 1302.

**ENG 202 - Multi-Ethnic American Literature**

Hours: Three

This course is designed to give students knowledge of the ethnic diversity of American literature at the same time that they improve their skills in reading and interpreting literature and in writing. The course covers material from at least three of the following ethnic groups: Native American, African American, Hispanic American, and American Eskimo. Other ethnic groups may also be included. Prerequisite Eng 1302.

When Offered (1, 2)

**ENG 203 - US-Lit of Western World**

Hours: 3 Lecture

(ENGL 2331) Literature of the Western World. Three semester hours.  
A study of selected works of fiction, poetry, and drama in the literature of western civilization from classical times to the present. Authors covered may include Sophocles, Virgil, Dante, Voltaire, Goethe, Dostoevsky, Tolstoy, Mann, and Eliot. Prerequisite: Eng 1302.
ENG 300 - Reading, Analyzing, Teaching Literature

Hours: Three

This course introduces students who are pre-service teachers to the reading process and critical reading strategies designed to better prepare them to understand the reading/writing connection, literary terminology, literary analysis, and research skills, in both pedagogical and analytical modes. In addition to examining the TEKS and TExES competencies for middle school and secondary English/Language majors, the course will provide support for pre-professional development through a variety of substantive projects. Prerequisite Eng 333, 2 upper level Literature courses and preferred completion of one of the required Reading courses.

When Offered (2)

ENG 301 - Modern Grammar

Hours: Three

A thorough analysis of the sentence-level grammar of English employing contemporary as well as more traditional methodologies. Emphasizes the relationship between the structure of language and that of everyday experience. Develops an appreciation of change and variation. Prerequisite Eng 1302.

When Offered (1, 2)

ENG 305 - Children’s Literature

Hours: Three

A survey of children’s literature. The course includes various authors and illustrators in such genres as the oral tradition, fantasy, realistic and historical fiction, poetry, and the picture book. Prerequisite Eng 1302.

When Offered (1, 2; 3 or 4)

ENG 311 - Shakespeare

Hours: Three

A study of selected comedies, histories, and tragedies Plays studied may include As You Like It; Henry IV, Part I; King Lear; and others. Prerequisite Eng 1302.

When Offered (1, even years; 3 or 4, odd years)

ENG 313 - English Usage and Composition
Hours: Three

A course to help students become proficient in Standard English Usage and to offer future teachers opportunities to learn how to teach usage in the context of student writing.

Note This course will not count toward the major or minor or toward certification.

**ENG 315 - Advanced Writing: Creative Writing**

Hours: Three

An introduction to creative writing through reading and analyzing models of selected genre or genres. In a workshop atmosphere, students share their writings and critique each other’s work and learn the practical problems of preparing work for submission and marketing. Genres selected for a semester’s focus may include: poetry, fiction, biography, community history, or screenplay. Prerequisite Eng 1302.

Note May be repeated once when the emphasis changes.

**ENG 317 - Word Building**

Hours: Three

A course planned to help students increase their vocabulary primarily through a study of the formation of English words from Latin and Greek roots. Prerequisite Eng 1302.

**ENG 323 - Mythology**

Hours: Three

This course focuses on the myths of the Greeks and Romans but may also include myths from other cultures such as the Norse and American Indian. Emphasis is placed on the influence of myths in literature and psychology and on enlargement of vocabulary through mastery of words derived from mythology. Prerequisite Eng 1302.

When Offered (2)

**ENG 331 - Introduction to Linguistics**

Hours: Three

A survey of major areas of linguistic theory: phonology, morphology, syntax, historical/comparative studies, sociolinguistics, psycholinguistics are included. Prerequisite Eng 1302.

When Offered (1, even years)
ENG 322 - Pre-Law Composition

Hours: Three

This course is designed for any student planning to go on to law school or a paralegal career. It concentrates on clear, correct, and well-reasoned writing. The primary emphasis is on writing effective answers on hypothetical legal case problems. Analytic, logical, and problem-solving skills are stressed. Some attention is given to the nature of the law school and its admissions requirements. Prerequisite Eng 1302.

When Offered (1, even years)

ENG 333 - Advanced Writing: Non-Fiction

Hours: Three

This course provides an intensive study of the principles of nonfictional composition through the analysis of examples from classic and modern writings and practice in the application of those principles. Emphasis is placed on rhetorical organization and the techniques of expository writing. Students devote much time to writing and editing their own work. Prerequisite Eng 1302 and Sophomore standing.

When Offered (1, 2; 3 or 4)

ENG 336 - British Poetry

Hours: Three

A study of the development of form, versification, and style in British poetry. Selected poems from the Old English period to the twentieth century will be read. Prerequisite Eng 1302.

ENG 341 - Technical Communication

Hours: Three

Techniques of objective reporting on scientific and technical material; principles of technical exposition; study of language uses; writing samples and principles of various technical reports, including abstracts, proposals, and manuals. Prerequisite Eng 1302.

When Offered (1, 2)

ENG 351 - American Novel Before World War I

Hours: Three

A study of significant American novels written before World War I. Authors to be studied may include Adams, Cooper, Dreiser, Garland, Hawthorne, James, Jewett, Melville, Poe, Twain, Warren, Wharton, and others. Prerequisite Eng 1302.
When Offered (3 or 4, even years)

**ENG 352 - American Novel After World War I**

Hours: Three

A study of significant American novels written after World War I. Authors to be studied may include Bellow, Cather, Faulkner, Fitzgerald, Hemingway, Porter, Steinbeck, Walker, Warren, Welty, Wright, Updike, and others. Prerequisite Eng 1302.

When Offered (3 or 4, odd years)

**ENG 355 - Women Writers**

Hours: Three

A study of literature by written by women. This course may cover specific historical periods (e.g., U.S. or Latin America texts after 1950), cultural groups (e.g., Black, Chicana, Asian-American, Native American), or specific genre or genres (e.g., science fiction, poetry). Prerequisite Eng 1302.

Note The course may be repeated once when the course emphasis changes.

When Offered (1, even years; 3 or 4, odd years)

**ENG 358 - Language and Society**

Hours: Three

A study of human social behavior and sociocultural interaction as they constrain language acquisition, use, and structure. Topics include sociolinguistics relativity, communicative competence, multilingualism, social and regional dialects, speech-act types, language styles, gender-related issues, and sociolinguistics field methodology. Prerequisite Eng 1302.

When Offered (2, odd years)

**ENG 388 - Shaping the Future**

Hours: 3 semester hours Lecture Lab/ Clock Hours 3 lecture / 0 lab

In this capstone course, students examine alternate possibilities for the future and the causes that might bring about those possibilities. In individual projects, they actually shape a part of their own futures. Prerequisite: Junior standing.

**ENG 399 - Literary and Research Methods**
Hours: Three

This course provides an advanced study of the basic principles and methods of literary analysis. Emphasis is placed on the mastery of formal literary terminology, a coverage of basic critical methodologies, and a thorough understanding of research techniques specific to the field. Required of all English majors. Prerequisites: Eng 102 and sophomore standing.

Prerequisite ENG 1302

ENG 403 - The Discipline of English

Hours: Three

This course is designed primarily for those pursuing teacher certification in secondary English. Reading materials will address methods of teaching composition, grammar, and literature in secondary schools and the competencies of the state-mandated teacher certification test for secondary English. Prerequisite Eng 1302.

When Offered (1)

ENG 406 - Adolescent Literature

Hours: Three

Introduces parents and prospective teachers of middle, junior high, and senior high schools to the major authors and genres of adolescent, or “young adult,” literature. Classroom applications are discussed, but the emphasis is on the interpretation and evaluation of the literature itself. Prerequisite Eng 1302.

When Offered (1, 2)

ENG 420 - Approaches to Literature

Hours: Three

An introduction to various methods of responding to and analyzing literature. These methods will include such traditional approaches as historical, biographical, and psychological, as well as feminist criticism, mythic criticism, and various forms of structuralism. Prerequisite Eng 102.

When Offered (2)

ENG 424 - Development of the English Language

Hours: Three

Insight into the vocabulary and sound systems of modern English through careful consideration of the sociocultural, geographic and linguistic roots of the language. Prerequisite Eng 1302.
When Offered (2, even years)

**ENG 425 - Development of the Novel**

Hours: Three

A study of British novels important in the history of the genre from the eighteenth century to the twentieth century, chosen from such authors as Fielding, Austen, Dickens, Hardy, Woolf, and others. Prerequisite Eng 1302.

When Offered (2)

**ENG 432 - History and Aesthetics of Film**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

A historical and aesthetic survey of film from the late nineteenth century to the present. The interdependence of technology and art is examined through the study of significant motion pictures that continue to influence contemporary filmmakers and reflect changing social and cultural values. Prerequisite Eng 1302.

Note Satisfies visual and performing arts option of University Studies.

**ENG 434 - Literature and Film**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

The interrelationships between film and literature and the unique qualities of each medium are analyzed. The course also examines film adaptations of literary works, films and literature that focus on similar themes, and the differences in reading and perceiving different types of texts. Prerequisite Eng 1302.

Note Satisfies visual and performing arts option of University Studies.

**ENG 441 - A Survey of American Literature I**

Hours: Three

The development of American literature from Colonial times to the Civil War. Prerequisite Eng 1302.

When Offered (1)

**ENG 442 - A Survey of American Literature II**
The development of American literature from the Civil War to the present. Prerequisite Eng 1302.

When Offered (2)

**ENG 444 - African American Literature**

Hours: Three

A study of the literature surrounding the African American experience as expressed through poetry, drama, the short story, and the novel, and occasionally how it is represented in music and film. Readings will include diverse nineteenth- and twentieth century texts that will explore the ways in which writers have given narrative and poetic form to issues such as slavery, religion, urban migration, and social marginalization, and racial identity.

**ENG 451 - Twentieth-Century British Literature**

Hours: Three

A study of British poetry, fiction, and drama in the twentieth century, including works of such authors as Yeats, Joyce, Shaw, Eliot, and selected contemporary writers. Prerequisite Eng 1302.

**ENG 457 - Teaching English as a Second Language**

Hours: Three

This course focuses on the linguistic, psychological, and sociocultural foundations for teaching English to speakers of other languages. It surveys historical, as well as current trends in the methods and materials of ESL, of language testing, and of language-program evaluation. Prerequisite Eng 1302.

Note Also appropriate for student interested in teaching second or foreign languages other than English.

**ENG 460 - Creative and Scholarly Publishing**

Hours: Three

This class is a practicum for students interested in publishing their creative or academic work. Students will work on preparing their work for publication, researching potential markets, and study how to submit work for publication. Extensive research on publishing and peer critiques.

Prerequisite ENG 315

**Cross Listed/ Same As** ENG 560
ENG 462 - Language Acquisition and Processing

Hours: Three

A survey of the cognitive, affective and developmental constraints on language acquisition and use. Topics include language, brain and mind; multilingualism; first and second language acquisition; evolution and change in the representational systems of humans and other animals; and research methods. Prerequisite Eng 1302.

ENG 471 - Survey of English Literature I

Hours: Three

This course covers a thousand years of British literature, from (roughly) 800 to 1800. It may begin with an introduction to Old English (e.g., Beowulf) and Middle English poetry (e.g., Chaucer), proceeding through the Renaissance (e.g., Jonson, Webster, and Shakespeare) and concluding with the Age of Reason (e.g., Dryden, Swift, Pope, and Johnson). Prerequisite Eng 1302.

When Offered (1)

ENG 472 - Survey of English Literature II

Hours: Three

The course covers British literature of the past two centuries, starting with the Romantics and the Victorians. The 20th century may include poets of the Great War, the Modernists, and late-century and contemporary authors. Prerequisite Eng 1302.

When Offered (2)

ENG 474 - Topics in World Literature

Hours: Three

Selected readings in world literature, in translation, with emphasis on cultural aspects and interdisciplinary approaches to the countries represented. Focus will be on, but not limited to, European countries. Prerequisite Eng 1302.

ENG 485 - Advanced Writing: Forms and Genres

This class is an advanced, intensive, reading and writing course that focuses on a specific genre of poetry or prose based on instructor specialization. Students will read and write in the assigned genre. Extensive writing and peer critiques. May be repeated for credit when the genre changes.
Prerequisite ENG 315

Cross Listed/ Same As ENG 585

ENG 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

ENG 490H - Honors Thesis

Hours: Three

ENG 491H - Individual Honors Readings

Hours: Three

ENG 495 - Internship

Hours: Three

Approved work experience in a professional organization. Supervision under the guidance of a practicing professional and departmental faculty member. Prerequisite Junior standing and approval of the head.

Note May be repeated once when the internship organization changes.

ENG 497 - Special Topics

Hours: Three

Organized class.

Note May be repeated when topics vary. For description of graduate courses, see Graduate Catalog.

ENG 1301 - College Reading and Writing
Hours: Three

English 1301 - (ENG 101) - Introduces students to writing as an extended, complex, recursive process and prepares students for English 1302, which more rigorously examines the forms and structures of argument and means to approaching multiple audiences. In 101 students will write weekly, and will work on essay organization and development. The course will emphasize close reading, summarizing, and analysis of expository texts, including student writing.

Texas Common Course Number (ENGL 1301)
When Offered (1, 2; 3 or 4)

**ENG 1302 - Written Argument and Research**

Hours: Three

ENG 1302 - (ENG 102) - This course provides students with advanced training in communication skills emphasizing the writing and reading of argumentative prose and adapting writing to alternate audiences. Students will write weekly, including such texts as journals, reading response logs, summaries of argumentative texts, argumentative papers, and longer papers integrating secondary research activities include close reading of sample texts, both student and professional. Some sections will emphasize special topics in both reading and writing. Prerequisite English 1301 or advanced placement or CLEP.

Texas Common Course Number (ENGL 1302)
When Offered (1, 2)

**ENG 2326 - Introduction to Literature**

Hours: Three

ENG 2326 - (ENG 201) - An introduction to the three major genres of literature: poetry, drama, and fiction. The course is designed to develop discriminating reading habits, and the student may be required to make analyses and value judgments based on critical thought. Prerequisite Eng 1302.

Texas Common Course Number (ENGL 2326)
When Offered (1, 2; 3 or 4)

**ENG 2331 - Literature of the Western World**

Hours: Three

ENG 2331 - (ENG 203) - A study of selected works of fiction, poetry, and drama in the literature of western civilization from classical times to the present. Authors covered may include Sophocles, Virgil, Dante, Voltaire, Goethe, Dostoevsky, Tolstoy, Mann, and Eliot. Prerequisite Eng 1302.

Texas Common Course Number (ENGL 2331)

**ENGR 111 - Foundations of Engineering I**
Introduction to the engineering profession, ethics, and disciplines; development of skills in teamwork, problem solving, logic processing, design and drawing; emphasis on computer applications and CAD tools.

**ENGR 112 - Foundations of Engineering II**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Development of skills in problem solving, design, analysis, estimation and teamwork; utilization of computer tools for documentation and presentation; introduction to logic processing and computer programming; introduction to accounting and conservation principles in engineering sciences. Prerequisite Engr 111, Math 2413.

**ENGR 211 - Principles of Engineering I**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Unified presentation of conservation principles applied to engineering mechanics systems in statics and dynamics. Co-or prerequisite: Phys 2425.

Prerequisite and/or Corequisite Phys 211.

Texas Common Course Number (ENGR 2303)

**ENGR 212 - Conservation Principles in Thermal Science**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Theory and application of energy methods in engineering; conservation principles to investigate “traditional” thermodynamics and internal flow fluids. Prerequisite Eng 211 and Phys 2426 or concurrent enrollment.

**ENVS 104 - Natural Disasters**

Hours: Four Lecture Lab/ Clock Hours 3 Lec/2 Lab

Scientific principles and case studies of natural disasters, including those related to geological, meteorological, biological, cosmological, and man-made hazards and disasters.

Note This is a university studies course.

When Offered (Fall)
ENVS 301 - Risk Assessment and Environmental Impact Statements

Hours: Three

This course is designed to provide an overview of ecological/environmental risk assessments, including problem formulation, risk analysis, and risk characterization and the development of Environmental Impact Statements. Other topics will include toxicity assessment, uncertainty analysis, and risk management. Particular emphasis will be placed on those guidelines developed by regulatory agencies.

When Offered (Fall)

ENVS 302 - Phase I Environmental Site Assessments

Hours: Three

Project-based course on protocol and methods for conducting Phase I Environmental Site Assessments as mandated by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Phase I Environmental Site Assessments are a common type of investigation conducted by environmental professionals within environmental consulting firms.

When Offered (Fall)

ENVS 304 - Frontiers in Environmental Sciences

Hours: One

This course is designed to familiarize environmental science majors with the literature pertaining to environmental science.

When Offered (Fall)

ENVS 305 - Environmental Hydrology

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

An overview of all aspects of the field of hydrology, including the hydrologic cycle, surface water, and groundwater. The bulk of the course concerns groundwater and focuses on practical methods for ascertaining aquifer characteristics necessary to evaluating groundwater supplies and groundwater contamination problems and remediation. Prerequisite Math 1314, ESCI 1403

Note All courses carrying four semester hours have labs. Students must register for both lecture and lab sections

When Offered (Spring)

ENVS 312 - Introduction to Environmental Toxicology
This course is designed to provide an overview of environmental toxicology, including an examination of the major classes of pollutants, their fate in the environment, their disposition in organisms, and their mechanisms of toxicity. An emphasis will also be placed on assessing the toxicity of pollutants in biological and environmental systems. Prerequisite BSc 1406, 1407 and EnvS 206.

When Offered (Spring)

**ENVS 403 - Environmental Ethics and Law**

Hours: Three

Course is designed to acquaint the student with the numerous ethical issues and perspectives confronting society and environmental scientists. The course also provides an overview of environmental laws on regulations and practice in navigating through these laws.

When Offered (Fall)

**ENVS 410 - Environmental Monitoring and Waste Management**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

The various sample collection and analytical techniques are emphasized as they related to detection and control of pollution. Technical and regulatory aspects of handling, control, and management of hazardous and nonhazardous wastes.

Note All courses carrying four semester hours have labs, Students must register for both lecture and lab section

When Offered (Spring)

**ENVS 1301 - Introduction to Environmental Science**

Hours: Four Lecture Lab/ Clock Hours 3 lecture / 2 lab

ENVS 1301 - (ENVS 204) - Survey course designed to cover major areas relating to contemporary environmental issues and to introduce the student to the multiple roles of the environmental professional in addressing these problems.

Note This is a university studies course.

Texas Common Course Number (ENVR 1301)

When Offered (Spring)

**EQSC 141 - Horsemanship**
Principles and techniques of Western and English horsemanship. Functional anatomy, selection and care of tack. Animal care and grooming techniques. The role of riding in lifelong human physical fitness.

Note Available for physical education credit. May be repeated once for credit. Class size limited to 10 per section. Animal use fee: $25.

**EQSC 240 - Intro to Equine Science**

Hours: 3 Lecture Lab/ Clock Hours 2 Lec 2 Lab

An introduction to the selection, care, grooming, handling, and riding of horses.

**EQSC 241 - Advanced Horsemanship**

Hours: Three Lecture Lab/ Clock Hours (1 lecture, 4 lab)

Refinement of equitation skills. Students will enroll in sections based on equitation skills as determined by a riding test. Prerequisite: EqSc 240 or consent of instructor

Note May be taken concurrently or after EqSc 141. Class size limited to 15 per section. Animal use fee: $40

**EqSc 340 - Yearling Training**

Hours: 3 semester hours Lecture Lab/ Clock Hours 2 lecture / 2 lab

This class is designed to help students learn the objectives for putting further training on yearling colts. The students will be doing ground work with the horses that is past the point of halter breaking the colts. The students will work on getting them ready for the many aspects involved in being saddle horses. The students will need to teach the colts how to walk, trot, and lope in both directions on a longe line, load into a trailer on their own, listen to verbal commands, come up to people in the pasture for catching, stand correctly and still for purposes of show, obedience, and future farrier needs, as well as many other aspects of getting a young horse trained.

Prerequisite: EQSC 240

**EqSc 341 - Two-Year-Old Horse Training**

Hours: 3 semester hours Lecture Lab/ Clock Hours 2 lecture / 2 lab

This class is designed to help teach students how to break horses to ride. These horses are 2 years old and have had all of their groundwork done in previous classes. Now, it is time for them to be broke. The objectives of the class are for the students to learn
how to break the horses to ride which includes exercising the horse extensively, teaching the horse to ground drive, saddling the horse for the first time, and teaching the horse to accept a bit in its mouth. Once all this is accomplished, the students shall teach the horses how to accept the students on their backs and ask the horses to move out. The students will have to learn to teach the horses how to walk, jog, lope, back and turn all while the students are on them. The final goal of the class will be for all of the horses to be broke and for all of the students to now know how to break a horse and what all work and training goes into the process Prerequisite : EQSC 240

EQSC 342 - Equine Nutrition

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Nutrition of the horse with emphasis on ration formulation, forage and hay quality and digestive disorders. Prerequisite AnS 307, PIS 326.

Note Lab fee: $15.

EQSC 343 - Equine Reproduction

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Management of reproduction in the mare and stallion to include puberty management, estrous cycles, mare and stallion reproductive management, artificial insemination, ultrasound and palpation, foaling care and rebreeding. Prerequisite AnS 311.

Note Lab fee: $15

EQSC 344 - Veterinary Techniques in the Equine

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Diseases, parasites and common ailments specific to the horse. Treatment of colic, laminates, proper hoof care will be among the topics covered.

Note Occasional field trips required. Lab fee: $15.

EQSC 345 - Horse Training

Hours: Four Lecture Lab/ Clock Hours (1 lecture, 6 lab)

Techniques of horse training. Students will be responsible for developing a two- year old for riding. Emphasis on behavior modification, imprinting, and techniques involved in finishing a young horse. Prerequisite EqSc 341.

Note Class limited to 15 students. Animal use fee: $40.
EQSC 441 - Stable Management

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 3 lab)

Principles of stable management to include stable design, records and reports, equine law, labor management, customer relations, marketing and equine care in confinement. Prerequisite AEc 219, AMc 315 or 425; EqSc 241.

Note Field trips required.

ESCI 203 - History of the Earth

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

Summary of the physical and biological history of the earth, with emphasis on North America; sequence of physical geological events and evolutionary changes in life. Laboratory includes the reconstruction of geologic history of various regions through interpretation of geologic maps, structure sections and simple pale ontological techniques. Field trip included.

Note This is a University Studies course.

When Offered (Spring)

ESCI 425 - Weather, Climate, and Human Environment

Hours: Three

This course is designed to present, in a descriptive format, the basic fundamentals and principles of weather and climate from a global, regional, and local perspective. Major emphasis will be placed on how climate has been a major influence on human physical and cultural evolution, ranging from global population distribution to cultural/economic adaptation. Conversely, future climate modules will be discussed as they might be influenced by rapidly changing human-induced disruptions. Prerequisite Junior standing

Note This is a Capstone

ESCI 461 - Earth Science for Teachers

Hours: Three

This course is designed for middle school (4-8) teachers with an emphasis placed on the four disciplines of Earth Science: geology, oceanography, meteorology and astronomy. Organization, materials selection, and set up of laboratory activities appropriate for achieving curriculum objectives will also be included. Prerequisite Math 1314 and 8 sh of science.

When Offered (Summer II)

ESCI 489 - Independent Study
Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**ESCI 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated with topics vary. For description of graduate courses see Graduate Catalog.

**ESCI 1403 - Physical Geology**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

ESCI 1403 - (ESCI 101) - A systematic study of minerals, rocks, and the processes which shape and modify the surface features of the earth. Energy, plate tectonics, volcanoes, earthquakes, and the practical aspects of geology are studied as they relate to man’s adjustments to the geologic environment.

Note This is a University Studies course.

Texas Common Course Number (GEOL 1403)
Formerly ESci 131
When Offered (Fall)

**ETEC 224 - Computer Literacy**

Hours: Three

Designed to provide students with knowledge and skills in using microcomputers; applying higher level means of communicating instructions to the computer; developing and evaluating software; and examining legal, ethical, and value issues regarding uses of microcomputers.

**ETEC 424 - Integrating Technology into the Middle/Secondary Curriculum**

Hours: Three

This course will examine specific methods for integrating technology (hardware and software) into subject area curricula. Individualization will allow each student to select and develop materials in his or her disciplines. Prerequisite CSci 126 or E Tec 224.
**ETEC 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note May be repeated when the topic varies. Consent of head. For graduate courses, see Graduate Catalog.

**FDSC 210 - Principles of Food Science**

Hours: Three

Basic principles of food preservation in relation to processing techniques and quality control procedures. Processing effects on aesthetic and nutritional food quality of plant and animal products will be explored.

Note Occasional field trips to food processing companies will be required.

Texas Common Course Number (AGRI 1329)

**FDSC 318 - Meat Technology**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 3 lab)

Theory and practice of slaughtering, processing, curing, and storing meat from domestic animals. Wholesale and retail cuts. Prerequisite AnS 118 and FdSc 210.

**FDSC 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**FDSC 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduate courses see Graduate Catalog.
FIN 304 - Introduction to Business Finance

Hours: Three

Basic concepts of business finance with emphasis on global and ethical issues, total quality management, production of goods and services, and various laws and regulations that affect the financial environment in which the firm operates. Basic elements of business finance, the financial environment, financial institutions, security markets, interest rates, taxes, risk analysis, time value of money and valuation. Maximizing value of the firm using financial analysis and planning, working capital management, cost of capital and capital budgeting. Prerequisite Acct 222; Eco 2301, 2302; Math 1324 or 1314.

FIN 312 - Money, Banking, and Financial Markets

Hours: Three

The nature and evaluation of money and its role in determining the overall level of economic activity. The course also examines the role of banking, central banking, and monetary policy as they apply to financial instruments and institutions in the context of global financial markets. Prerequisite Eco 2301, 2302.

Formerly (Formerly Eco 310)

FIN 400 - Principles of Investments

Hours: Three

Introduction to the basic principles of investing in debt and equity securities which includes: the study of the behavior of securities markets; mechanics of security analysis and investing; economic affects on prices resulting from dynamic political, social and regulatory influences on the financial environment; and risks, such as those caused by influences of international changes in demographic diversity of the world’s countries on domestic securities markets. Prerequisite Fin 304.

When Offered (1)

FIN 404 - Advanced Financial Management

Hours: Three

Intermediate techniques of financial management. Emphasis on cash budgeting, capital budgeting, and financial impact of alternative financing methods in both short and long terms, financial engineering, and ethical and global issues with related demographic diversity effects. Prerequisite Fin 304.

FIN 410 - Analysis of Financial Derivatives
This course provides a broad introduction to the options, futures, swaps and interest rate options markets. These derivative securities play an integral part in managing risk for many progressive companies, portfolio managers, and sophisticated investors.

When Offered (2)

**FIN 429 - Financial Markets and Institutions**

Hours: Three

This course examines the economic role of financial institutions and their relationship to money and capital markets. Prerequisite Fin 304, 312

**FIN 430 - Financial Planning**

Hours: Three

Advanced techniques of personal sector cash flow, asset and liability management, life cycle financial planning, investment management, tax planning, and retirement and estate planning. Prerequisite Fin 304.

**FIN 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note May be repeated when the topic varies.

Prerequisite and/or Corequisite Consent of head.

**FIN 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduate courses, see Graduate Catalog.

**FLL 489 - Independent Study**
Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**FLL 497 - Special Topics**

Hours: One to Four

Organized class. Prerequisite Permission of the head.

Note May be repeated when topics vary.

**FRA 100 - Lifetime Fitness**

Hours: One

An overview of the requirements of a lifestyle conducive to fitness and health. Students will participate in a variety of fitness activities and be introduced to topics in nutrition, weight control, cardiovascular conditioning, flexibility, and strength training.

**FRA 101 - Aerobic Conditioning by Walking or Jogging**

Hours: One

Fitness development with an emphasis on walking, jogging, and running, including discussion of proper technique and health benefits.

**FRA 102 - Aerobic Dance**

Hours: One

Basic aerobic dance conditioning to music for improving muscular endurance, strength, flexibility, and cardiovascular fitness.

**FRA 103 - Aquatic Fitness**

Hours: One

Conditioning through water exercises with or without swimming ability. Increased fitness with emphasis on stretching, flexibility, and abdominal and back strength.
**FRA 104 - Beginning Triathlon**

Hours: One

Conditioning and training for triathlon competition, including swimming, running, and bicycling. As a culmination to the course, students will participate in a triathlon sponsored by the class.

**FRA 105 - Weight Training**

Hours: One

Strength development through basic exercise and lifting techniques. Theory and beginning techniques in fitness conditioning, body building, and power lifting.

**FRA 110 - Beginning Swimming**

Hours: One

For non-swimmers and those who cannot swim 25 yards (one pool length). Opportunity to learn and improve individual swimming and water survival skills. Introduction to Red Cross swimming strokes with increased endurance and comfort in the water.

**FRA 114 - Water Polo**

Hours: One

For swimmers only (must pass swimming proficiency test). Instruction in fundamental techniques, strategies, skills, conditioning and equipment for water polo. Students will participate in competitive play.

**FRA 120 - Varsity Sport**

Hours: One

For students participating in intercollegiate sport only.

**FRA 121 - Badminton**

Hours: One
Instruction and practice in the fundamentals of the grip, strokes, footwork, court coverage and rules of play. Singles and doubles strategy, offensive and defensive positioning and tournament play will be progressively incorporated. Students will participate in competitive play.

**FRA 122 - Golf**

Hours: One

Instruction in the skills, techniques, rules and etiquette of golf on the course. Chipping, pitching, putting, golf strategies, and rules of the game are included. Students will participate in competitive play.

**FRA 123 - Handball**

Hours: One

Instruction in the basic skills of handball including singles and doubles strategy, court etiquette, rules and scoring. Students will participate in competitive play.

**FRA 124 - Racquetball**

Hours: One

Instruction in the basic skills of racquetball including singles and doubles strategy, court etiquette, rules and scoring. Students will participate in competitive play.

**FRA 125 - Tennis**

Hours: One

Instruction in the basic tennis skills including grip, foot work, and strokes, such as backhand, forehand, volley and serve, the drop shot, lob, and overhead shots will be introduced, as will singles and doubles strategies, rules, scoring and court etiquette. Students will participate in competitive play.

**FRA 130 - Basketball**

Hours: One

Instruction in basic skills to include ball handling, shooting and passing. Students will learn offensive and defensive techniques, rules, strategy and participate in competitive play.
FRA 131 - Flag Football

Hours: One

Flag football explores the skills and techniques for team play including passing, catching, running, and offensive and defensive positioning. Football emphasizes individual and team skills, rules and strategy. Students will participate in competitive play.

FRA 132 - Soccer

Hours: One

Instruction in the individual offensive and defensive skills, game strategy, rules, and team tactics through the use of small-sided games and individual drills. Students will participate in competitive play.

FRA 133 - Softball

Hours: One

This course provides instruction to develop the fundamental skills of throwing, catching, running, hitting, and rules of play of softball as well as individual and team skill development and strategies involved in competitive game situations. Students will participate in competitive play.

FRA 134 - Volleyball

Hours: One

Introduction to the fundamental skills and strategies of organized volleyball including the forearm pass, set, spike, block, dig, and serve. In addition, students will gain an understanding of elementary team strategies students will learn to practice effective communication with teammates through participation in competitive play.

FRA 140 - Backpacking and Camping

Hours: One

This course is designed to instruct students in the basic techniques of backpacking and camping. Topics will include wilderness skills and outdoor survival techniques. The proper use and selection of personal backpacking and camping equipment will be covered.

Note Students are required to participate in off-campus weekend trip. Equipment is provided.

FRA 141 - Canoeing and Kayaking
Hours: One

For swimmers only (must pass swimming proficiency test). This course is designed to instruct students in the basic techniques and safety for canoeing and kayaking. The proper use and selection of equipment will be covered.

Note: Students are required to participate in one off-campus weekend trip. Equipment is provided.

**FRA 142 - Downhill Skiing**

Hours: One

Instruction in conditioning, basic skills and techniques for downhill skiing. The proper use and selection of equipment will be covered.

Note: Students are required to participate in a week long ski trip during spring break. Equipment is provided.

**FRA 143 - Fly Fishing**

Hours: One

Instruction in fundamental techniques and skills for fly fishing. The proper use and selection of equipment will be covered.

Note: Students are required to participate in two off-campus weekend trips. Equipment is provided.

**FRA 145 - Mountain Biking**

Hours: One

This course is designed to instruct students in the basic techniques and safety for mountain biking. The proper use and selection of equipment will be covered.

Note: Students are required to participate in one off-campus weekend trip. Equipment is provided.

**FRA 146 - Rock Climbing**

Hours: One

This course is designed to instruct students in the basic techniques of rock climbing. Covered techniques will include belaying, rappelling, ascents and descents. The proper use of personal climbing equipment and safety concerns will also be covered.

Note: Students are required to participate in one off-campus weekend climbing trip. Equipment is provided.
FRA 147 - Sailing and Windsurfing

Hours: One

For swimmers only (must pass swimming proficiency test). This course is designed to instruct students in the basic techniques of sailing and/or windsurfing. The proper use and selection of equipment and safety concerns will also be covered.

Note Students are required to participate in one off-campus weekend trip. Equipment is provided.

FRA 148 - Venture Dynamics

Hours: One Lecture Lab/ Clock Hours 3 lecture/ 0 lab

This course is designed to help students understand how participating in outdoor activities can promote lifelong health and wellness. Participants will experience an enjoyable, safe and informative introduction to outdoor activities including knot tying, belaying, movement technique, and safety procedures in the context of an outdoor ropes course. This course will emphasize a range of topics that include team building exercises, terminology, and conservation.

FRA 160 - Fencing

Hours: One

Instruction in fundamental techniques and skills for fencing with foil, saber, and epee. Foil instruction will be emphasized and students will learn proper fencing etiquette, competitive rules, basic skills, and classic fighting techniques. Students will participate in competitive fencing.

Note Equipment is provided.

FRA 161 - Karate

Hours: One

This course emphasizes mental and physical development in the martial art of karate. It includes techniques and philosophies of karate including the harmony of mind, body and spirit, and is designed to develop self-control, physical coordination and self-confidence.

FRA 162 - Skeet and Trap Shooting

Hours: One

Instruction in fundamental techniques and skills for skeet and trap shooting. Topics include patterning, shotgun fitting, conditioning, gun hold, targeting, and recoil. Students will participate in competitive skeet and/or trap shooting.

Note Equipment is provided.
FRA 163 - Social and Popular Dance

Hours: One

Instruction in the fundamentals, forms and patterns of social and popular dance. Basic dances develop confidence through practice with a variety of partners as well as an appreciation for cultural and geographical backgrounds.

FRA 164 - Yoga

Hours: One

Instruction in the techniques and benefits of yoga. Learning skills will include postures (Asana), breathing, and relaxation techniques. Improved flexibility, strength, muscle tone, and concentration will be emphasized.

FRA 1151 - Beginning Scuba

Hours: One

FRA 1151 - (FRA 111) - For swimmers only (must pass swimming proficiency test). Instruction in fundamental techniques and skills for scuba.

FRA 1153 - Lifeguarding

Hours: One

FRA 1153 - (FRA 112) - For swimmers only (must pass swimming proficiency test). Instruction in fundamental techniques, skills and equipment for Red Cross Lifesaving. Students will have the opportunity to test for Red Cross Lifeguarding certification.

FRA 2155 - Water Safety Instructor

Hours: One

FRA 2155 - (FRA 113) - For swimmers only (must pass swimming proficiency test). Training needed to teaching the American Red Cross Swimming and Water Safety Program. Students will develop their understanding of how to use the course materials, how to conduct training sessions and how to evaluate participants’ progress.

FRE 131 - Elementary French I
Hours: Three

Introduction to the four language skills: speaking, writing, listening and reading. Emphasis on the spoken language. Introduction to French and Francophone cultures.

Texas Common Course Number (FREN 1311)

**FRE 132 - Elementary French II**

Hours: Three

A continuation of Fre 131 with further emphasis on the spoken language. Prerequisite French 131 or approved placement or CLEP or consent of head.

Texas Common Course Number (FREN 1312)

**FRE 231 - Intermediate French I**

Hours: Three

Review and expansion of the four language skills with emphasis on speaking and writing, and further exposure to French and Francophone cultures. Prerequisite French 131 and 132 or approved placement or CLEP or consent of head.

Texas Common Course Number (FREN 2311)

**FRE 232 - Intermediate French II**

Hours: Three

A continuation of Fre 231 with emphasis on reading comprehension and writing skills. Introduction to French prose, poetry or drama. Prerequisite French 231.

Texas Common Course Number (FREN 2312)

**FRE 289 - Independent Study**

Hours: 1 to 4 semester hour(s)

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite: Consent of head.

Note: May be repeated when the topic varies.
FRE 331 - Advanced French I: Written Emphasis

Hours: Three

Improves composition skills by the implementation of three major components: grammar review and refinement; reading and analysis of various kinds of texts, both literary and journalistic; composition assignments involving such techniques as description, analysis, and persuasion. Prerequisite French 232.

FRE 332 - Advanced French II: Oral Emphasis

Hours: Three

Improves oral comprehension and production. Listening skills will be enhanced through French and Francophone radio, television and film. Speaking skills will be honed by class discussions based on current events in the newspapers and magazines of the Francophone world. Prerequisite French 232.

FRE 450 - Major Literary Figures

Hours: Three

A survey of the major literary figures of French or Francophone literatures. French authors treated may include Marie de France, Rabelais, Ronsard, Montaigne, Corneille, Racine, Molière, Marivaux, Montesquieu, Voltaire, Diderot, Rousseau, Balzac, Hugo, Camus, Sartre, Robbe-Grillet and Duras. Francophone authors treated may include Camara Laye, Nafissatou Diallo, Cheikh Sow, Calixthe Beyala, Tahar Ben Jelloun, Assia Djebar, Patrick Chamoiseau, Maryse Condé, Joseph Zobel, Gabrielle Roy and Roch Carrier.

FRE 455 - Literary Movements in France

Hours: Three

A survey of literary movements in French literature from its beginnings to the modern period. Possible selections come from the medieval period, the Renaissance, the classical theater, the philosophical works of the eighteenth century, the romantic, realistic and symbolic works of the nineteenth century, and the modern period.

FRE 460 - French Fiction

Hours: Three

A study of the development of French fiction. Possible selections are from the novel or the short story. Authors to be studied may include Madame de Lafayette, Voltaire, Balzac, Zola, Flaubert, Maupassant, Gide, Proust, Sarraute, and Camus.

FRE 461 - French Poetry
A study of the development of poetry in France. Readings include selections from the twelfth through the twentieth centuries. Writers to be studied may include Villon, Ronsard, Lamartine, Musset, Hugo, Baudelaire, Verlaine, Rimbaud, Valéry, Péguy, Apollinaire, Eluard, and Prévert.

**FRE 462 - French Drama**

Hours: Three

A study of the development of French drama. Selections may include the works of Corneille, Racine, Moliere, Marivaux, Hugo, Claudel, Anouilh and Giraudoux.

**FRE 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**FRE 490 - Honors Thesis**

Hours: 3 to 6 semester hour(s)

**FRE 491H - Ind. Hon. Rdgs.**

Hours: 3 semester hours

**FRE 497 - Special Topics**

Hours: Three

Organized class.

Note May be repeated when topics vary.

**GDRS 300 - Fundamentals of Gender Studies**
This course introduces students to interdisciplinary approaches to gender and provides a foundation for further coursework in the gender studies minor. Topics will vary by professor and the course may be repeated once as topics vary.

**GDRS 400 - Topics in Gender Studies**

Hours: Three

Topics in Gender Studies provides students with the opportunity to explore specific issues or ideas in more depth than afforded by other courses in the minor.

Prerequisite GDRS 300

**GEOG 100 - Global Communities**

Hours: Three

**HHPA 140 - Introduction to Athletic Training**

Hours: One

This course is part of the pre-professional requirements for athletic training. Students will learn basic history, policies and procedures, management, and prevention techniques related to the allied-health field of athletic training.

Note Observation hours in the on-campus athletic training facilities are required for full admittance to the Athletic Training Education Program. Course fees and lab fees are listed in the current course schedule.

**HHPA 213 - Prevention and Care of Athletic Injuries**

Hours: Three

A lecture course designed to provide entry-level knowledge in the field of sports related injuries. Content areas include: basic anatomy of common injuries, emergency procedures, evaluation techniques, medical conditions affecting athletes and preventive measures to reduce the incidence of injuries. Standard treatment protocols and legal and ethical issues are also discussed.

Prerequisite BSC 2401 or HHPH 172

Note Course fees and lab fees are listed in the current course schedule.

*Cross Listed/ Same As* Same as HHPK 213

**HHPA 214 - Preventive Techniques in Athletic Training**
Hours: One

Students will learn taping, wrapping and padding techniques used to support and prevent athletic injuries. Techniques for making and applying special preventative pads, splints and fitting of protective equipment will be taught.

Note: Demonstration of proficiency of clinical skills will be required to complete this course. Participation in directed clinical experience in on-campus athletic training facilities is required. Course fees and lab fees are listed in the current course schedule.

**HHPA 239 - Therapeutic Modalities**

Hours: Three

A study of knowledge, skills and values an athletic trainer or health care provider must possess to plan, apply, document and evaluate the efficacy of therapeutic modalities. Scientific theories and application principles will be discussed. Content areas include: cold, heat, ultrasound, electrical stimulation, traction, and manual therapy techniques. Prerequisite HHPA 213 or HHPK 213.

Note: Course fees and lab fees are listed in the current course schedule.

**HHPA 240 - Therapeutic Modalities Lab**

Hours: One

Students will learn the application of therapeutic physical modalities and other therapeutic agents applied to treat injuries. Indications, contraindications, and legal implication will be taught. Corequisite HHPA 239.

Note: Mastery of clinical skills will be required to complete this lab. Participation in directed clinical experience in on-campus and off-campus facilities is required. Transportation will be needed. Course fees and lab fees are listed in the current course schedule.

**HHPA 249 - Clinical Experience in Athletic Training I**

Hours: One

Under the direct supervision of a licensed/certified athletic trainer or other licensed medical professional, students will be provided the opportunity to observe, learn, practice, and demonstrate a variety of skills directly related to the profession of athletic training. In addition, students are expected to successfully demonstrate required clinical proficiencies. Clinical experiences will take place both on and off campus in a variety of settings. Prerequisite HHPA 213, 214.

Note: Course fees and lab fees are listed in the current course schedule.

**HHPA 259 - Athletic Injury Assessment I**
A study of the knowledge, skills and values an athletic trainer must possess to assess and evaluate injured athletes and other physically active individuals. Content areas to include: pathology, on and off-field assessment procedures for the foot, ankle, knee and thigh/hip, and lumbar spine. Prerequisite HHPA 213 and 214

Note: Course fees and lab fees are listed in the current course schedule.

**HHPA 260 - Athletic Injury Assessment I Lab**

Hours: One

This lab course will teach general and specific assessment and evaluation techniques for the foot, ankle, knee, thigh/hip, and lumbar spine. Pathology and on-field assessment procedures will also be taught. Mastery of clinical skills will be required to complete the lab. Corequisite HHPA 259.

Note: Participation in directed clinical experience in on-campus and off-campus facilities is required. Transportation will be needed. Course fees and lab fees are listed in the current course schedule.

**HHPA 279 - Clinical Experience in Athletic Training II**

Hours: One

Under the direct supervision of a licensed/certified athletic trainer or other licensed medical professional, students will be provided the opportunity to observe, learn, practice, and demonstrate a variety of skills directly related to the profession of athletic training. In addition, students are expected to successfully demonstrate required clinical proficiencies. Clinical experiences will take place both on and off campus in a variety of settings. Prerequisite HHPA 249.

Note: Course fees and lab fees are listed in the current course schedule.

**HHPA 339 - Therapeutic Rehabilitation**

Hours: Three

A study of knowledge, skills and values an athletic trainer or health care provider must possess to plan, apply, document and evaluate the efficacy of therapeutic exercises and rehabilitation programs. Scientific theories and application principles will be discussed. Content areas include: basic rehab concepts, therapeutic exercise parameters, general and specific therapeutic rehabilitation applications.

Note: Course fees and lab fees are listed in the current course schedule.

**HHPA 340 - Therapeutic Rehabilitation Lab**
Hours: One

Students will learn the application of therapeutic exercises and contraindications. Contraindications and legal implications of applying therapeutic rehabilitation programs will be taught. Corequisite HHPA 339.

Note: Mastery of clinical skills will be required to complete the lab. Participation in directed clinical experience in on-campus and off-campus facilities is required. Transportation will be needed. Course fees and lab fees are listed in the current course schedule.

**HHPA 349 - Clinical Experience in Athletic Training III**

Hours: One

Under the direct supervision of a licensed/certified athletic trainer or other licensed medical professional, students will be provided the opportunity to observe, learn, practice, and demonstrate a variety of skills directly related to the profession of athletic training. In addition, students are expected to successfully demonstrate required clinical proficiencies. Clinical experiences will take place both on and off campus in a variety of settings. Prerequisite HHPA 279.

Note: Course fees and lab fees are listed in the current course schedule.

**HHPA 369 - Athletic Injury Assessment II**

Hours: Three

A study of the knowledge, skills and values an athletic trainer must possess to assess and evaluate injured athletes and other physically active individuals. Content areas to include: pathology, on and off-field assessment procedures for the head, neck, spine, shoulder, elbow, forearm, hand, and wrist. Prerequisite HHPA 239

Note: Course fees and lab fees are listed in the current course schedule.

**HHPA 370 - Athletic Injury Assessment II Lab**

Hours: One

This lab course will teach the general and specific assessment and evaluation techniques for the head, neck, spine, shoulder, elbow, forearm, hand, and wrist. Pathology and on-field assessment procedures will also be taught. Mastery of clinical skills will be required to complete the lab. Corequisite HHPA 369 Corequisite HHPA 259.

Note: Mastery of clinical skills will be required to complete the lab. Participation in directed clinical experience in on-campus and off-campus facilities is required. Transportation will be needed. Course fees and lab fees are listed in the current course schedule.

**HHPA 379 - Clinical Experience in Athletic Training IV**
Under the direct supervision of a licensed/certified athletic trainer or other licensed medical professional. Students will be provided the opportunity to observe, learn, practice, and demonstrate a variety of skills directly related to the profession of athletic training. In addition, students are expected to successfully demonstrate required clinical proficiencies. Clinical experiences will take place both on and off campus in a variety of settings. Prerequisite HHPA 349.

Note: Course fees and lab fees are listed in the current course schedule.

**HHPA 441 - Athletic Training Administration**

Hours: Three

A study of knowledge, skills and values an athletic trainer or health care professional must possess to develop, administer, and manage an athletic training program or other health care facility. Students will learn the administrative responsibilities of the athletic training profession, as they relate to national and state regulatory agencies, sports associations and educational entities. Content areas include: management, budgets, facilities, insurance, legal concerns and professional ethics.

Note: Course fees and lab fees are listed in the current course schedule.

**HHPA 442 - Health Care Administration Lab**

Hours: One

This course will give the student the opportunity to observe administrative procedures used in the different health care settings. A rotation of health care facilities will be visited. Application of administration techniques will be applied to the athletic training profession. Corequisite HHPA 441.

Note: Mastery of clinical skills will be required to complete the lab. Participation in directed clinical experience in on-campus and off-campus facilities is required. Transportation will be needed. Course fees and lab fees are listed in the current course schedule.

**HHPA 449 - Clinical Experience in Athletic Training V**

Hours: One

Under the direct supervision of a licensed/certified athletic trainer or other licensed medical professional, students will be provided the opportunity to observe, learn, practice, and demonstrate a variety of skills directly related to the profession of athletic training. In addition, students are expected to successfully demonstrate Required clinical proficiencies. Clinical experiences will take place both on and off campus in a variety of settings Prerequisite HHPA 379.

Note: Course fees and lab fees are listed in the current course schedule.

**HHPA 459 - Assessment of General Medical Conditions**
Hours: Three

A study of the knowledge, skills and values an athletic trainer must possess to assess general medical conditions for the physically active. Course content to include: assessment of the chest, abdomen, illnesses, dermatological conditions and pharmacology.

Note: Course fee will be applied and are listed in current class schedule.

**HHPA 460 - General Medical Assessment Lab**

Hours: One

This lab will teach the application of general medical assessment techniques used by health care providers. Content areas to include: assessment of the chest, abdomen, illnesses, dermatological conditions, and pharmacology. Corequisite HHPA 459

Note: Mastery of clinical skills will be required to complete lab. Participation in clinical experiences in on and off campus facilities is required. Transportation will be needed. Lab fees apply and are listed in class schedule.

**HHPA 479 - Clinical Experience in Athletic Training VI**

Hours: One

Under the direct supervision of a licensed/certified athletic trainer or other licensed medical professional, students will be provided the opportunity to observe, learn, practice, and demonstrate a variety of skills directly related to the profession of athletic training. In addition, students are expected to successfully demonstrate required clinical proficiencies. Clinical experiences will take place both on and off campus in a variety of settings. Athletic training, students taking part in this clinical experience will be assigned to four, four-week rotations to include experience within a local high school, general medical physician’s office, physical therapy clinic, and orthopedic surgeon’s office. Prerequisite HHPA 449

**HHPA 480 - Clinical Integration in Athletic Training**

Hours: Three

This course is designed for professional level III athletic training majors to integrate competencies and proficiencies with decision making processes before entering professional practice. The student will participate in scenario-based problem solving, critical thinking challenges. Content areas to include: review of clinical skills, professionalism, career opportunities and professional development requirements.

Note: Participation in directed clinical experience in on-campus and off-campus facilities is required. Transportation is needed. Course fees will be applied and are listed in class schedule.

**HHPA 489 - Independent Study**
Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite consent of athletic training program director.

Note: May be repeated when the topics vary.

**HHPH 130 - Introduction to Personal and Community Health**

Hours: Three

An introduction to personal and community health, this course will acquaint students with basic principles of health. Studies include community health problems, programs, agencies, and health careers. Attention will also be given to cultural diversity in matters pertaining to health.

**HHPH 172 - Systems of the Human Body**

Hours: Three

A study of the structure and function of selected body systems and their integration into personal health. Designed to be a foundation for other health and kinesiology courses.

*Cross Listed/ Same As* Same as HHPK 172

**HHPH 210 - Environmental Health**

Hours: Three

This course covers environmental health topics of importance to the health promotion practitioner. Environment is approached as one of the determinants of health for individuals and human populations.

**HHPH 220 - Emotional Health**

Hours: Three

This course is designed to provide the student with principles and methods necessary for understanding emotional health and developing an emotional health plan. The concept of emotional wellness and the role stress play in emotional health development are examined.

**HHPH 250 - Consumer Health**
Hours: Three

Attention will be given to current health problems and issues dealing with consumerism. The course will involve students establishing concepts of self-protection in sales promotion of health products and services.

**HHPH 265 - Substance Use and Abuse**

Hours: Three

An examination of the physiological, psychological, and social effects of drugs and other harmful substances. Legal and ethical implications are considered.

**HHPH 331 - Nutrition**

Hours: Three

Basic facts and principles of human nutrition are presented. Study includes the physiological and psychological factors of food intake and utilization with emphasis on nutrition education for dietary improvements of groups and individuals.

**HHPH 332 - Nutrition in the School and Community**

Hours: Three

A study of the nutritional status and needs of community groups: preschool and school children, socially and economically deprived, and the aged. Development of resource materials will also be included.

**HHPH 362 - Human Diseases**

Hours: Three

A study of communicable and non-communicable diseases. Emphasis is placed on causative factors of various diseases, means of transmission, and prevention. Prerequisite HHPH 172, or HHPK 172, or BSC 2401

**HHPH 382 - Elementary & Secondary School Materials in Health Education**

Hours: Three

A study of the organization and curriculum of elementary and secondary school health programs including individual health guidance, healthful school environments, protective measures, screening procedures, evaluation of methods of instruction, and teaching materials.
Note: The planning of school health curricula with a special emphasis on lesson planning, units of study, methods and materials in the teaching of health education to elementary and secondary school pupils.

**HHPH 385 - Current Issues in Health**

Hours: Three

This course will examine emerging issues and trends relevant to health and the application of health decisions. Prerequisite Junior or Senior standing.

**HHPH 410 - Planning and Organization of Health Promotion**

Hours: Three

This course will involve program planning in the health promotion field, including needs assessment, missions, goals and field objectives of health promotion programs. Prerequisite Junior or Senior standing.

**HHPH 420 - Program Implementation and Evaluation of Health Promotion**

Hours: Three

The course will include program implementation and evaluation in several health promotion settings. Prerequisite HHPH 410.

**HHPH 430 - Health Promotion with Special Populations**

Hours: Three

This course will include learning about and developing health promotion programs for special populations such as older adults, children, and the physically challenged. Prerequisite Junior or Senior standing.

**HHPH 435 - Nutrition in Health and Disease**

Hours: Three

Nutrition principles applied to prevention and treatment of disease through the human life cycle. Prerequisite Junior or Senior standing.

**HHPH 472 - Stress Management**
This course includes a study of the nature and psychology of stress with particular emphasis placed on coping strategies and relaxation techniques. Conflict resolution and interpersonal relationships will also be discussed.

**HHPH 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note: May be repeated when the topic varies. Consent of head.

**HHPH 495 - Internship and Seminar in Health Promotion**

Hours: Three

This course is taken during the senior year and is designed to give students practical work experience at a health promotion facility. Current health promotion job-related topics and job-hunting techniques will be discussed. Experiences of students at fieldwork sites will be presented.

Note senior standing. For graduate courses, see Graduate Catalog.

**HHPK 144 - Foundations of Kinesiology**

Hours: Three

A survey course in human movement that includes the historical development of movement and sport from ancient through contemporary cultures. Physiological, sociological, and psychological principles affecting human movement and sport are also studied.

**HHPK 154 - Concepts of Physical Activity**

Hours: Three

This course is designed to provide information related to the need for continuing physical activity and its contribution to wellness. Units of instruction will include procedures for assessing fitness levels in the various components of physical fitness and techniques used in developing physical fitness among students.

**HHPK 172 - Systems of the Human Body**
A study of the structure and function of selected body systems and their integration into personal health. Designed to be a foundation for other health and Kinesiology courses.

**Cross Listed/ Same As** Same as HHPH 172

**HHPK 211 - First Aid and Safety**

Hours: Three

This course is designed to develop the knowledge and skills necessary to be effective in providing safe environments and as a first responder to accidents and/or sudden illness. Life saving skills, accident prevention principles, and the proper use of Automated External Defibrillator (AED) will also be included.

**Cross Listed/ Same As** Same as HHPH 211

**HHPK 213 - Prevention and Care of Athletic Injuries**

Hours: Three

A course designed to provide entry level knowledge in the field of sport related injuries. This course includes units dealing with the history of athletic training, basic anatomy of common injuries, evaluation techniques, preventive measures to reduce the incidences of injuries and a knowledge of basic treatment procedures to be used after injuries occur. Legal and ethical issues will also be discussed. Prerequisite HHPH/HHPK 172 or anatomy course or consent of instructor.

Prerequisite HHPH/ HHPK 172 or consent of instructor.

**Cross Listed/ Same As** Same as HHPH 213

**HHPK 250 - Physical Activity Skills I: Conditioning, Individual and Dual Sports**

Hours: Three

The purpose of this course is to develop the techniques for sports conditioning and fundamental skills used in teaching individual/dual sports. This course will also focus on the various stages of games skill development for a variety of activities.

**HHPK 251 - Physical Activity Skills II: Team Sports**

Hours: Three

The purpose of this course is to develop the techniques utilized in fundamental skills for team sports. This course will also focus on the various stages of games skill development. An emphasis will be placed on designing a variety of learning experiences for grade appropriate team sports. Prerequisite HHPK 250.
HHPK 274 - Adapted Physical Education

Hours: Three

A course designed to provide knowledge related to handicapping conditions and the effects of these handicaps upon motor development and the performance of motor activities. The types of conditions considered range from orthopedic handicaps, learning disabilities, and cardio-respiratory disorders to behavior disorders, sensory impairments, and other permanent and temporary handicapping conditions.

HHPK 304 - Motor Development

Hours: Three

This course will offer instructional techniques for early childhood motor activities and development. Experiences will be presented in a variety of activities with an emphasis on motor development, skill themes, rhythmic movement, and tumbling and developmental gymnastics. Prerequisite HHPK 154.

HHPK 314 - Teaching Methods in Physical Education I

Hours: Three

A course designed to enable the student to learn the process of movement and skill acquisition for elementary children. Principles and practices related to the learning of children’s movement skills, fitness and active lifestyles will be investigated. Includes the scientific basis for motor performance, curricular organization, and pedagogical methodology related to the elementary school physical education program. Prerequisite HHPK 154 and junior/senior standing.

HHPK 315 - Teaching Methods in Physical Education II

Hours: Three

A course designed to enable the student to learn the processes of movements and skill acquisition of students in middle/secondary schools. Using state standards, it provides information related to curriculum selection and implementation of middle/secondary public school physical education programs. Students will demonstrate competencies in presentations utilizing various instructional strategies. Prerequisite HHPK 154 and junior/senior standing.

HHPK 324 - Health and Kinesiology for Children

Hours: Three

A course designed to acquaint elementary education majors with current health information and activities appropriate for the pre-kindergarten through fourth grade child. Principles of kinesiology, analysis of motor skills, and age appropriate interdisciplinary activities will be explored one-half of the semester.
Texas Common Course Number (TECA 1318 non-advance credit)

**HHPK 335 - Kinesiology and Biomechanics**

Hours: Four

A study of human musculoskeletal anatomy and principles of biomechanics. Prerequisite BSc 251 or consent of instructor.

**HHPK 350 - Motor Learning and Motor Control**

Hours: Three

The study of the acquisition of psychomotor skill and neuromuscular function in the control of movement. Prerequisite BSc 251 or consent of instructor.

**HHPK 397 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary.

**HHPK 414 - Theory of Coaching Football and Soccer**

Hours: Three

A comprehensive study in coaching football and soccer. Students will study rules, strategies and tactics, scouting, evaluation of skills, and motivation of athletes.

**HHPK 416 - Theory of Coaching Baseball and Softball**

Hours: Three

A comprehensive study in coaching baseball and softball. Students will study rules, strategies and tactics, scouting, evaluation of skills, and motivation of athletes.

**HHPK 417 - Measurement and Evaluation**
This course is intended to address the current practices in conducting data-based measurement and evaluation processes. Specifically, this course will examine statistical techniques necessary for manipulation and interpretation of various performance data. Prerequisite Math 141 or 175 or 179 and junior or senior standing.

**HHPK 444 - Administration of Kinesiology and Sports Programs**

Hours: Three

An integrated study of the administration of traditional and contemporary kinesiology and sports programs. Philosophies and principles of the administration of kinesiology and sports programs will be applied to various areas of concern such as personnel policies, leadership, facilities, equipment, record keeping, finance, legal implications, and program promotion.

Note Junior or Senior standing.

**HHPK 450 - Exercise Physiology**

Hours: Four

Topics include aerobic and anaerobic energy sources for muscular activity, physiology of muscle contraction; strength, and flexibility. The role of nervous system control of muscular activity. Pulmonary and circulatory physiology; gas exchange and transport, body composition and weight control; pediatric exercise physiology. Prerequisite BSc 251 and 252 or consent of instructor.

**HHPK 451 - Topics in Exercise Science**

Hours: Four

Advanced topics in exercise science to include biomechanics, exercise physiology, and/or motor learning. Prerequisite BSc 251 and 252 or consent of instructor.

**HHPK 454 - Theory of Coaching Track and Field and Cross Country**

Hours: Three

A comprehensive course covering basic knowledge in the theory of coaching track and field and cross country. Fundamental skills in the individual events of track and field will be analyzed. Students will also study rules and tactical strategies.

**HHPK 455 - Theory of Coaching Basketball and Volleyball**
Hours: Three

A comprehensive study in coaching basketball and volleyball. Students will study rules, strategies and tactics, scouting, evaluation of skills, and motivation of athletes.

HHPK 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note May be repeated when the topic varies. Consent of head. For graduate, see Graduate Catalog.

HHPS 100 - Foundations of Sport and Recreation

Hours: Three

An introductory course that includes the history, philosophy, principles, and opportunities in sport and recreation management, both in the private and public sectors.

HHPS 110 - Principles of Leadership

Hours: Three

The role of administration and leadership in the objectives, organization, and procedures of sport and recreational organizations.

HHPS 200 - Programming in Sport and Recreation

Hours: Three

Exploration and examination of the foundations and basic sport programming skills, methods, and techniques necessary to deliver sport and recreational activities within a variety of settings, agencies and/or organizations.

HHPS 210 - Sport Psychology

Hours: Three

An overview of the principles of psychology as applied to sport or recreational activity for enhanced interactions and performance.
HHPS 300 - Field Experience in Sport and Recreation

Hours: Three

Provides an opportunity for supervised observation and participation in a variety of settings related to sport and recreation management. Prerequisite HHPS 100 and 110.

HHPS 310 - Facility Design and Maintenance

Hours: Three

An introduction to appropriate procedures in the planning, design, construction, and maintenance of sport and recreation facilities. Prerequisite HHPS 100 and 110.

HHPS 320 - Legal and Ethical Issues

Hours: Three

Examines legal and ethical concepts related to sport and recreation management. Topics will include athletic participation and eligibility, public facility use issues, constitutional due process, contracts and tort law as applied to participants and spectators. The course will seek to provide concepts, models, and techniques to use in managing ethical dilemmas. Prerequisite HHPS 100 and 110.

HHPS 400 - Sport and Recreation Management

Hours: Three

An examination of the management and operational techniques and strategies for sport and recreation programs. Topics include the determination of strategic direction for sport and recreation organizations and effective implementation of strategies. Prerequisite Junior or Senior standing.

HHPS 410 - Sport and Recreation Finance

Hours: Three

An examination of the principles of finance as applied to budgeting, operations, and business decisions in recreation and sport organizations. Topics include financial indicators for strategic planning, strategies for generating income, and the allocation of resources. Prerequisite Junior or Senior standing.

HHPS 420 - Sport and Recreation Marketing
Hours: Three

An examination of marketing concepts, advertising, consumer behavior, strategic planning and the marketing of sport or recreation as a consumer product.

**HHPS 450 - Internship in Sport and Recreation Management**

Hours: Six

Practical experience in recreation and sport management through in-service with selected sport or recreation organizations. Summer internships are desirable. Prerequisite Junior or Senior standing.

**HHPS 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note May be repeated when the topic varies. Consent of head. For graduate, see Graduate Catalog.

**HIST 253 - Reading and Writing History**

Hours: Three

This course introduces students to the discipline of history as it is taught at the college level. Students will discover how and why historians debate issues of evidence and interpretation. By studying the “history of history,” students will learn to distinguish between various schools or styles of academic history; to improve reading, note-taking, and library skills; and to formulate meaningful thesis statements. Students will apply the lessons of the course in a hands-on research experience which will result in the preparation and presentation of a finished historical essay in approved scholarly form.

**HIST 264 - A Nation Divided: American History**

Hours: Three

America is a country characterized by diversity. Its history is the story of interactions between groups divided by race, ethnicity, language, income, religion, ideology, culture, and gender. This course explores the nature of encounters between social groups and the consequences such encounters had for American culture and politics. Topics such as Native American history, the Civil Rights Movement, and the labor movement may receive special attention.

Note This course satisfies a Humanities requirement for University Studies.

**HIST 265 - A World Divided: Global History**
Encounters between human populations who perceive the differences that separate them to be greater than the similarities that unite them have punctuated world history. Such encounters have frequently led to war, imperialism and colonization, and less frequently to cultural imitation and synchronism. The modern world is the product of these encounters as much as, if not more than, it is the product of the development of distinct regional cultures, such as Western Civilization. This course explores the nature of such encounters and the consequences they had for cultural and political developments. Topics such as the slave trade, European colonization, and glottalization may receive special attention.

Note This course satisfies a Humanities requirement for University Studies.

**HIST 303 - Historical Geography**

**Hours: Three**

A study of the various ways in which history has affected and has been affected by geography, including but not limited to physical, political, cultural, and environmental elements. Topics may include the emergence of ancient civilizations, the spread of Islam, and global commercial relations.

Prerequisite and/or Corequisite Hist 253

**HIST 305 - World History: Origins through the Seventeenth Century**

**Hours: Three**

World History differs from traditional Western Civilization not only in its greater geographic scale but also its longer chronological scope. This course begins with the earliest human tribal organizations. Consideration of the ancient period will also include the development of cradles of civilization, the growth and decline of classical cultures, interactions among classical and nomadic peoples, and the establishment of great world religions. The study of the medieval period will include varieties of rebuilding after the collapse of classical empires, the roles played by great world religions in medieval cultures, the development of technologies of communication and transportation, and the interactions among settled and nomadic peoples. Topics considered in the early modern period include the voyages of exploration and early colonization efforts by China and Europe, and the impact of emerging globalization.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

**HIST 306 - The Emergence of the Modern World**

**Hours: Three**

This course covers the period from 1500 to the present and will focus on the ecological conditions of globalization, the rise of “formal” imperialism, and the construction and maintenance of colonial/imperial states. Themes covered will include paths to modernity, non-western philosophies of resistance, technological revolutions, and the intersections of world thought, religion, trade, and economy. Special emphasis will be given to the non-Western world.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.
HIST 312 - Ancient and Medieval Europe

Hours: Three

This course begins with a consideration of classical Greece and Rome, continues into the Late Antique period when classical culture gave way to medieval, and then through the European Middle Ages, ending about 1500. Continuity and change between the classical and post-classical periods will be examined from a variety of perspectives, including the fortunes of political, social, economic, and religious institutions; the forms and varieties of social organizations; the models and content of philosophy, literature, and the arts; and technology.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 313 - A Feudal Society

Hours: Three

This course examines European society during the period roughly from 500 to 1500. The focus will be on how different groups of people experienced life during the Middle Ages. Topics will include the three estates and those on their margins; economic and occupational organizations; and gender and family roles. The course will also study how medieval people understood their own society, that is, how medieval beliefs, particularly religious beliefs, informed how medieval people interpreted their world.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 314 - The European Reformations

Hours: Three

This course examines how Christian beliefs, institutions, and practices altered in Europe from the late fourteenth through the mid-seventeenth centuries. The course will begin with a consideration of theologians and the theology, both from the late Middle Ages, such as John Wycliffe, and the sixteenth century, such as Martin Luther. It will analyze the institutional, cultural, and political ramifications of religious beliefs, including the formation of new Christian churches; the alliances formed between churches and national governments; and the changes in attitudes towards women and the poor, manifested in episodes such as the witch craze. The course will conclude with a consideration of the Thirty Years War (1618-1648) and its consequences.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 315 - Early Modern Europe

Hours: Three

This course focuses on Europe during the period when modernization and globalization began, roughly 1500-1789. The study of the transformation of Europe will focus on a variety of topics, including the Italian and Northern Renaissances; the Protestant and Catholic Reformations; the invention of new technologies, especially those for communication, transportation, and military force; the emergence of scientific and Enlightenment philosophies; the development of and resistance to more powerful central
governments and monarchies; and the interactions between Europe and the world, particularly Africa and the Americas.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

**HIST 327 - Europe in the Age of Enlightenment and Revolution, 1648-1848**

Hours: Three

This course will explore European history from the Age of Louis XIV to the mid-nineteenth-century revolutions, tracing the changes in ideas about politics, governance, and society as they evolved from theories of divine rule to the realities of mass politics. Particular attention will be paid to the phenomena of absolutism and enlightened despotism, the general transformation of intellectual thought known as the Enlightenment, and the events leading up the French Revolution. Finally, the course will trace the impact of the French Revolution on European society, culture, and politics, highlighting the developments that made mass political participation possible.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

**HIST 329 - Women and Gender in European History**

Hours: Three

This course explores European women’s and men’s changing social roles and competing views of femininity and masculinity in Modern Europe. It examines the status and role of women as well as the cultural construction of myths of gender and sexuality. Special attention will be paid to questions of equality and difference, the relationship between gender and politics/power, and issues of the female body, sexuality, and the family. Students will investigate the expectations that European societies proposed for women, the diversity of roles that women assumed in all fields of activity—economic, social, political, religious, and cultural—and how different women experienced transformation in their daily life as well as cataclysmic social and political change.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

**HIST 333 - Modern Europe, 1848-1991**

Hours: Three

This course investigates the momentous events of the late nineteenth and twentieth centuries in Europe and the impact of these developments on the rest of the world. Over the course of the semester, students will explore the formation of European nations, states, and empires; the emergence of ideologies such as nationalism, socialism, communism, and fascism; the impact of technological developments; and the devastation of the wars and genocides that have shaped the modern period. The course, framed by the Europe-wide upheavals of 1848 and 1991, gives special attention to the role of revolution, protest, and mass movements in Modern Europe, and the important contributions that Eastern Europe (including Russia) has made in shaping these events.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.
### HIST 334 - Urban Underworlds: The City and Its People in Modern Europe

**Hours:** Three

Industrialization and the urbanization that accompanied it changed the nature of Europe’s cities permanently. These new metropolises brought the contradictions of modern life into sharp relief. This course takes a comparative approach to analyze the urban environment in cities such as London, Paris, Vienna, Berlin, St Petersburg, and Moscow. Focusing on the “hidden” worlds of the ordinary person, we will examine issues of class, crime and social control, prostitution and vice, entertainment and culture, and health and hygiene, as we explore the impact of change and modernity on Europe’s urban landscape.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

### HIST 360 - Themes in World History

**Hours:** Three

A study of the themes which influenced all human cultures from the earliest times to the present, considered within the context of a comparative framework. Such themes as the impact of technological change on society, the development of means of economic exchange and the structure of religious and ideological systems will be examined.

Note May be repeated for credit up to nine semester hours as topics change.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

### HIST 365 - History of Modern East Asia

**Hours:** Three

A survey of developments in China, Japan, Korea, and Vietnam during the nineteenth and twentieth centuries with emphasis on the impact of the West in the nineteenth century and modernization in the twentieth.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

### HIST 375 - Colonial Latin America

**Hours:** Three

This course offers an introduction to the history of Latin America from the late pre-Columbian period through the initial movements for independence. It will highlight the Amerindian, African, and European experiences in the colonization processes; as well as the colonial structures. Topics include Christianize, race and gender relations, political and economic systems, and the rise of Creole nationalism.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.
HIST 385 - Latin America in the Modern Period

Hours: Three

This course will examine Latin America since the independence process. It will study the obstacles confronted by the new nations, as well as themes such as the role of women in society, political violence and resistance, as well as the deepening links between Latin America and the world economy and its relationship with the United States.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 400 - Controversies in History and Social Studies

Hours: Three

This course will explore the relationships between and the intersections among the social studies content areas (history, government, economics, and geography). Student work will include analyses of content-area textbooks, state assessments, and established curriculums. Corequisite Must be taken concurrently with Hist 401

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 401 - Introduction to Teaching History and Social Studies

Hours: One

This course examines best practices in teaching history and social studies, including the use of primary sources, professional journals, literature, teacher-facilitated discussions, and simulations. (One Semester Hour)

Prerequisite Hist 253. Corequisite Must be taken concurrently with Hist 400.

Note: Students must pass this course before being approved for student teaching. Non-Majors may enroll with consent of Instructor.

HIST 402 - Colonial North America to 1775

Hours: Three

This course explores the lives and cultures of American Indians, Europeans, and Africans/African Americans in North America, and the experience of colonialism, from the Precontact Period through the imperial crisis leading to the American Revolution. Topics covered include the conflict and cooperation between natives and newcomers, the role of religion in the conquest and settlement of the continent, the economic and political development of British America, the pivotal role of slavery, the evolving social structures of colonial communities, and the souring of relations between the British mainland colonies and Great Britain in the 1770s.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.
HIST 403 - Revolutionary America and the Early National United States, 1775-1850

Hours: Three

This course examines the rise, progress, and ramifications of the American Revolution that created the United States of America, from its beginnings in the 1770s through the development of a radically democratic nation by 1850. Topics covered include the social, economic, and political maturation of British colonial America preceding the Revolution; the War for Independence and the creation of nationhood; the later consequences of independence; the role of religion in early national American society; the conflicts leading to American Indian removal; and the debates over constitutionalism, federalism, slavery and states’ rights that divided North from South.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 404 - Religion in Early American History

Hours: Three

This course surveys the development of religion in North America from the Precontact Period to the end of the American Civil War, with an emphasis on the transplantation and evolution of European Christianity. Topics covered include American Indian and African religions as they developed in contact with missionizing Christianity in the colonial and early national contexts, the influence of Protestantism on American identity, the religious justifications for slavery, issues pertaining to religious tolerance and the separation of church and state under the constitution, the First and Second Great Awakenings, nineteenth-century reform movements, and the role of religion in warfare from the Pequot War through the Civil War.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 405 - The Civil War and Reconstruction, 1850-1877

Hours: Three

This course charts national debate over slavery from the early Republic through secession, addresses topics concerning the conduct and outcome of the war, and discusses the legacy of the conflict in American history with special attention to the period of Reconstruction. The course strikes a balance between military, political, economic, racial, and gender issues in understanding the period.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 407 - Emergence of Modern America, 1850-1920

Hours: Three

This course examines the final crisis between the sections over the issue of slavery which produced Civil War, slavery’s destruction, and opened a long tortured effort fully define citizenship for those freed from slavery’s grasp. Industrialization and its complications brought political radicalism and demands for reform. Economic growth helped fuel expansion overseas, greater involvement in international affairs, and involvement in the First World War.
Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 409 - The Twentieth-Century United States

Hours: Three

The cataclysm of World War I produced international economic catastrophe, masked initially in America by an emerging consumer economy and the Jazz Age. Economic depression produced a climate in which the government became insurer of general prosperity. World War II ended the Great Depression, produced the modern middle-class, but also began a period of prolonged international competition with the Soviet Union. Despite prevailing over communism, the United States closed the century facing international uncertainty and economic limits.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 410 - Civil Rights Movement, 1940-1968

Hours: Three

An exploration of the African American Civil Rights Movement, concentrating on developments in the American South. Topics covered include the origins of segregation and disfranchisement, extralegal methods of social control, national developments fueling black resistance, the varied groups within the movement, Black Power, and the decline of the movement after 1968.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 411 - Race and Education in the 20th Century US

Hours: Three

This course will explore the evolution of the national culture of public education in the U.S. after the Civil War era. Students will examine political efforts used to assimilate minority populations in the U.S. in order to promote citizenship, as well as the impact of legislation and court decisions on public schools. The course will also include an investigation of the effects of education policies on children and their families, and how schools perpetuate racism and discrimination. Topics considered may include the impact of segregation on the educational experiences of African Americans and the consequences of attempts at forced assimilation on American Indian educational experiences.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

HIST 415 - History of Texas

Hours: Three

A topical examination of Texas history, this course covers material from the time of Spanish colonization to the present day. The state’s diversity and development take center stage, and the state’s history is placed in the context of national and global trends.
This course examines political, economic racial, ethnic gender, and social issues in Texas history.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

**HIST 425 - History of the American South**

Hours: Three

This course is a topical examination of the history of the southern United States, defined loosely as those eleven states which seceded from the Union in 1860-1861. The course is divided into five broad subject areas: two are antebellum and three are post-civil war. Matters relating to the Civil War are largely reserved for Hist 405. Hist 425 is primarily concerned with the development of a southern regional identity prior to, but especially after the Civil War. This understanding of regional identity is developed through attention to class, racial, political, economic, gender, and religious issues.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

**HIST 437 - American Diplomatic History**

Hours: Three

This course is a study of U.S. foreign policy which examines the international role of the U.S. as its prominence in world affairs grew from the period of the Spanish-American War through the World Wars, and the Cold War Peace time as well as war time developments will be investigated.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

**HIST 439 - War in the Modern World**

Hours: Three

This course utilizes an interdisciplinary approach to the study of warfare. While war in general will be examined, emphasis will be placed on the American military experience. Topics to be covered include: war causation, weapons development, military leadership, and the effects of war on man and society. Prerequisite Junior standing.

Prerequisite and/or Corequisite Majors: Hist 253. Non-Majors: may enroll with consent of instructor.

**Capstone (Capstone)**

**HIST 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.
Note May be repeated when the topic varies.

**HIST 497 - Special Topics in History**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduate courses, see Graduate Catalog.

Prerequisite and/or Corequisite: Majors or Hist 253. Non-Majors may enroll with consent of instructor.

**HIST 1301 - US History to 1877**

Hours: Three

HIST 1301 - (HIST 121) - A broad interdisciplinary course in the historical development of the United States and North America to 1877.

Note: Assignments will focus on reading, writing, and analysis.

Prerequisite and/or Corequisite: ENG 1301 or 1302

Texas Common Course Number (HIST 1301)

**HIST 1302 - US History from 1865**

Hours: Three

HIST 1302 - (HIST 122) - A broad interdisciplinary course in the historical development of the United States and North America from 1877.

Note: Assignments will focus on reading, writing, and analysis.

Prerequisite and/or Corequisite: ENG 1301 or 1302

Texas Common Course Number (HIST 1302)

**IE 101 - Introduction to Industrial Engineering**

Hours: Three
Basic industrial engineering concepts to include systems optimization, variability in systems, and production systems. Student teams engage in design projects that require the integration of several concepts. Ethics and professional conduct are stressed. The computer competency evaluation will be administered in this course.

**IE 201 - Elementary Engineering Analysis**

Hours: Three

This course will utilize Microsoft Excel to solve problems that commonly arise in engineering analysis. Numerical methods of problem solving will be emphasized. Problem solving techniques will be accentuated rather than the underlying mathematical solution procedures. Application of these methods for use in other science, mathematics, engineering, and technology courses will be illustrated. A one-hour per week outside class laboratory will be required.

Prerequisite: Math 2413.

**IE 207 - Engineering Economic Analysis**

Hours: Three

Emphasizes the systematic evaluation of the costs and benefits associated with proposed technical projects. The student will be exposed to the concepts of the “time value of money” and the methods of discounted cash flow. Students are prepared to make decisions regarding money as capital within a technological or engineering environment. Prerequisite: IE 201

**IE 211 - Engineering Probability and Statistics**

Hours: Three

This course covers the role of statistics in engineering, probability, discrete random variables and probability distributions, continuous random variables and probability distributions, joint probability distributions, random sampling and data description, point estimation of parameters, statistical intervals for a single sample, and tests of hypotheses for a single sample. Corequisite: Math 192

**IE 305 - Facilities Planning and Management**

Hours: Three

Study of production facilities, including location, planning, design and maintenance. Emphasis on production systems, machine selection, automation, material handling, storage and warehousing, quality, retrofitting and preventative maintenance.

**IE 311 - Advanced Engineering Statistics**

Hours: Three
This course examines model building, design of experiments, multiple regression, non-parametric techniques, contingency tables and introduction to response surfaces, decision theory and time series data. Prerequisite: IE 211

IE 312 - Industrial Operations Research I

Hours: Three

This course focuses on the application of deterministic numerical methods to the solution of resource allocation, distribution, and quality control problems in business and industrial settings. Some techniques covered are decision theory, statistical process control, linear programming, and queuing theory. Prerequisite: Math 2314

IE 313 - Industrial Operations Research II

Hours: Three

Development and application of probabilistic analytical methods including Markov chains, queuing systems and digital simulation modeling. Prerequisite: IE 312.

IE 314 - Statistical Quality Control

Hours: Three

A comprehensive coverage of modern quality control techniques to include the design of statistical process control systems, acceptance sampling, and process improvement. Prerequisite: IE 311

IE 316 - Manufacturing Systems Design and Control

Hours: Three

Advanced course emphasizing the analysis and design of job requirements, workplace arrangements, material handling devices/systems and machine controls which improve the human workplace. Students will research and create a system design project. Prerequisite: IE 311

IE 389 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. May be repeated when the topic varies. Prerequisite: Consent of Department Head
IE 397 - Special Topics

Hours: Three

Organized class. May be repeated when topic varies.

IE 403 - Human Factors Engineering

Hours: Three

The emphasis of this course is the design of the human-system interface. The principles of the life sciences, engineering, and mathematics are applied to the investigation of existing and proposed socio-technical systems. Methods for the reduction of fatigue and human error are taught. Prerequisite: IE 316.

IE 407 - Production Systems Operations

Hours: Three

Analytical principles of manufacturing systems design, analysis and control; emphasis placed on stochastic analysis; role of variability and impact on cycle time; push versus pull production strategies including Kanban and constant WIP control; probability, queuing theory, Little’s Law, heavy traffic approximation and queuing networks. Prerequisite: IE 316.

IE 410 - Systems Simulation

Hours: Three

The application of computer simulation to industrial settings is taught. Areas covered include system structure, system analysis, model construction, data collection, and computer simulation languages. The application of simulation to facilities layout for manufacturing is emphasized. Prerequisite: IE 311

IE 411 - Engineering Management

Hours: Three

Techniques relating to managing engineering activities; engineer’s transition into management; engineering managerial functions; motivation of individual and group behavior; productivity assessment/improvement; and managing the quality function and communications. Prerequisite: Senior classification in Industrial Engineering.

IE 431 - Principles of Programmable Automation

Hours: Three Lecture Lab/Clock Hours (2 lecture, 2 lab)
Concepts, principles, and relationships of automated assembly devices, computer aided drafting/design (CADD), computer-aided manufacturing (CAM), industrial robots, numerical control (NC), industrial lasers, programmable logic controllers (PLCs), automated guided vehicles (AGVs), flexible manufacturing systems (FMS), and computer-integrated manufacturing (CIM).
Prerequisite: Consent of instructor.

IE 444 - Systems Engineering

Hours: Three

A study of the systems acquisition life cycle, contract negotiations, life cycle cost (LCC) analyses, project cost estimation, project schedule and tracking techniques, reliability and maintainability (R&M) analyses, trade-off analyses, test and evaluation (T&E), design for maintainability, design for manufacturability, and design for operation. Prerequisite: Senior standing and consent of instructor.

IE 471 - Planning for Industrial Systems Design

Hours: Three

Student teams prepare a proposal (technical and management sections) to outline the approach and methodology the team plans to follow in working with industry sponsors on real-world industrial engineering process improvement activities. The proposed improvement activity will be the systems design project planned for the following spring semester in IE 495 - Industrial Systems Design. Prerequisite: Senior Classification, IE Majors Only, course must be scheduled in the fall semester prior to the student's IE 495 enrollment in the final spring semester, and consent of instructor.

IE 486 - Service Systems Analysis

Hours: Three

This course focuses on analyses and visualization of engineering issues faced by service industries contrasted against production and manufacturing industries, service business models, development of support facility requirements, technological tools used in serving various businesses, and metrics to measure quality of services. Prerequisite: Senior standing, IE major, course scheduled in the final semester of student's IE program. Co-requisite: IE 495.

IE 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. May be repeated when the topic varies. Prerequisite: Consent of department head.
IE 490H - Individual Honors Thesis

Hours: Three

Completion of an Honors thesis as a result of research completed in the student's Individual Honors Readings course.

IE 491H - Individual Honors Readings

Hours: Three

Individualized, independent research designed by the student and a member of the Industrial Engineering faculty whom the student has selected as an Honors advisor.

IE 495 - Industrial Systems Design

Hours: Four

This course is the Industrial Engineering Capstone Design course, covering: flexible manufacturing systems and manufacturing integration; integrated knowledge to be gained from using all required industrial engineering courses in a system design project. Laboratory component will be used to reinforce team activities by working with industry sponsors on real-world industrial engineering process improvement activities. Prerequisite: IE 471; senior standing: IE Major; course scheduled in the final semester of the student's IE program; Consent of instructor. Co-requisite: IE 486

IE 497 - Special Topics

Hours: Three

Organized class. May be repeated when topic varies.

IS 351 - Inquiry: Knowledge and Skills of Science

Hours: Three

Science topics and themes are chosen to emphasize broad concepts highlighted in the Texas and national science standards. Topics will include conservation laws, systems in nature, the nature of scientific inquiry and presentation of scientific information. The course will be taught by an inquiry based method, modeling instructional techniques proved effective by current educational research. This course is designed for interdisciplinary majors. It will not count toward a major or minor in the sciences. Prerequisite Junior level standing.

Note This course is designed for interdisciplinary majors. It will not count toward a major or minor in the sciences.

IS 352 - Science Inquiry II
Science topics and themes are chosen to emphasize broad concepts highlighted in the Texas and National Science Standards. Topics include fundamental physical and chemical processes such as the chemistry of the environment, macromolecules of life, systems in nature, and the nature of scientific inquiry. The course will be taught using any inquiry based method, modeling, instructional techniques proven effective by current educational research. Prerequisite Junior level standing.

Note This course is designed for interdisciplinary majors. It will not count toward a major or minor in the sciences.

**IS 397 - Special Topics**

Hours: One to Four
Organized class.
Note May be repeated when topics vary.

**IS 451 - Historical Development of Great Ideas in Science**

Hours: Three

Major people, discoveries, and the evolution of fundamental concepts and theories through time are examined through literature, research, and hands-on inquiry based investigations. Science topics and themes are chosen to emphasize broad concepts in the Texas and national science standards.

**IS 1415 - Integrated Science I**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

IS 1415 - (IS 151) - This is a University Studies science course. The interdisciplinary application of scientific principles to society is emphasized. The scientific principles developed in this course are motion, energy, chemical changes, and other topics typically covered in physical science. Connections and applications of these principles to the other sciences and public issues are examined.

Texas Common Course Number (PHYS 1415)

**IS 1417 - Integrated Science II**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

IS 1417 - (IS 152) - This is a University Studies science course. The interdisciplinary application of scientific principles to society is emphasized. The scientific principles developed in this course are cellular structure, genetics, DNA, astronomical and geological issues, and other topics covered in life earth sciences. Connections and applications of these principles to the other sciences and public issues are examined.
**IT 111 - Computer Aided Design (CAD)**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

This is an introductory course in freehand sketching and computer-aided drafting/design. Students will taught basic CAD commands, tools, multi-view drawing and dimensioning techniques.

Texas Common Course Number ENGR 1304

**IT 112 - Product Design and Development**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Product development and design processes and methods, including product specifications, concept development, engineering drawings, design for prototyping, and manufacturing Prerequisite IT 111 or the equivalent

Texas Common Course Number ENGR 1305

**IT 303 - Industrial Communications**

Hours: Three

Study and application of technical writing documents, letters, manuals and reports. Emphasis also on presentations, team building, employee training, interviewing, business etiquette and professionalism. Prerequisite Junior Standing.

**IT 340 - Quality Management and Improvement**

Hours: Three

This course examines (1) the primary tools and methods used to monitor and control quality in organizations and (2) the ways in which quality can be improved. Included in the course are such topics as the historical development of quality management, the seven basic tools for quality improvement, and management strategies for implementing world class quality improvement strategies. Emphasis is also given to control chart analysis and process capability study. Prerequisite Junior Standing.

**IT 371 - Construction Safety Management**

Hours: Three

Students will be able to discern the need, technical application, and management labor implementation issues in preparing safety management plans. Construction safety plans include technical, cultural, legal and administrative issues, which are addressed in the course.
**IT 389 - Independent Study**

Hours: One to Three

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of the Department Head

Note May be repeated when the topic varies.

**IT 397 - Special Topics**

Hours: Three

Organized class.

Note May be repeated when topics vary.

**IT 471 - Industrial Internship**

Hours: Three

Occupational experience in an industrial facility. Work experience is cooperatively planned by the and employer to fulfill the student’s objectives. Prerequisite Should be made 30 days before registration (contact Department office for applications) Corequisite IT or TMGT major, junior standing and Consent of the Department Head

Note Weekly conferences, assignments and reports required. Application for internship course also required.

**IT 489 - Independent Study**

Hours: One to Three

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of the Department Head

Note May be repeated when the topic varies

Prerequisite and/or Corequisite .

**IT 497 - Special Topics**

Hours: Three
Organized class.

Note May be repeated when topics vary.

**JOUR 115 - Publication Design and Production**

Hours: Three

An introduction to programs for application to print publications such as newspapers, magazines, and newsletters. Instruction in the fundamentals of layout and design in electronic publishing.

Note Required of all sequence majors.

**JOUR 214 - Basic Reporting**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

A beginning course in the gathering and writing of news with an emphasis on interviewing and the basic types of stories. Assignments will include work to be submitted to the student newspaper. Laboratory hours each week.

Texas Common Course Number (COMM 2311)

**JOUR 260 - Advertising Principles**

Hours: Three

A survey course in advertising as one aspect of promotion. Examines the historical background, social and economic environments, media channels, and other basics of the field as the beginning for further study in advertising. Prerequisite Jour 1307 or consent of the instructor.

Texas Common Course Number (COMM 2327)

**JOUR 314 - Intermediate Reporting**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

A continuation of Jour 214 with emphasis on developing the students’ news sense, judgment, interpretive news presentation, and reporting skills to produce in-depth stories using multiple sources of information. Assignments will include work to be submitted to the student newspaper. Laboratory hours each week. Prerequisite Jour 214 or consent of instructor.

**JOUR 315 - Editing and Production**
Focus is on the concerns of the news editor, including copyediting, headline writing, and newspaper design. Laboratory work consists of copy editing, layout, and headline writing for fully-paginated student publications. Prerequisite Jour 115.

**JOUR 316 - Topics in Community Newspaper Journalism**

Hours: Three

This course explores various topics in community newspaper journalism, including photojournalism, business-related operations such as advertising and circulation, newspaper management, technology, and community relations. Prerequisite Jour 1307 or consent of instructor.

**JOUR 326 - Advanced Reporting/Feature Writing**

Hours: Three

An advanced course integrating writing, reporting and news feature writing skills. Assignments will include work to be submitted to the student newspaper. Prerequisite Jour 315 or consent of instructor.

Note Laboratory hours each week.

**JOUR 328 - Public Relations Principles**

Hours: Three

An introduction to the fundamentals of public relations and the functions of reputation management. A beginning examination of publics, research techniques, media outlets, and public relations techniques. Prerequisite Jour 1307 or consent of instructor.

**JOUR 329 - Writing for Public Relations**

Hours: Three

The preparation of and writing of various documents in the field of public relations. Emphasis is upon writing and research for public relations formats. Prerequisite Jour 328 or consent of the instructor.

**JOUR 335 - Media History**

Hours: Three

A survey of the origins and development of journalism and the mass media from their beginnings in Germany and England to the
present time. Emphasis on the ideas, economic forces, and cultural realities touching the development of American journalism. Prerequisite Jour 114 or consent of instructor.

**JOUR 336 - Media Law**

**Hours: Three**

A study of the First Amendment and the significant legal decisions affecting print, broadcast, and interactive media. Particular attention is focused on Supreme Court decisions. Prerequisite Junior standing or permission of instructor.

**JOUR 350 - Visual Communication for News Publications**

**Hours: Three**

An Introduction to preparing visual documents for use in print publications. Digital cameras are used to introduce the essentials of composition, selection, and editing of images. Prerequisite Junior or Senior standing.

**JOUR 397 - Special Topics**

**Hours: One to Four**

Organized class.

Note May be repeated when topics vary.

**JOUR 425 - Public Relations Case Studies**

**Hours: Three**

An analysis and evaluation of contemporary public relations problems in public and private organizations. Case studies are examined. Prerequisite Jour 328 and 329 or consent of instructor.

**JOUR 426 - Public Relations Campaigns**

**Hours: Three**

The planning, implementation, and analysis of public relations campaigns. Examination of the role of research in such campaigns. Prerequisite Jour 328, 329, and 425 or consent of the instructor.

**JOUR 445 - Ethics in the Media**
This is a course about ethical issues raised by contemporary mass media practices, especially those related to news, advertising, and public relations. Students will learn to recognize and analyze problem situations in terms of a framework of ethical principles in a societal context shaped by the libertarian traditions of Enlightenment thought. Communitarian challenges to those traditions will be studied and their impact on media ethics and practices explored. Prerequisite Junior or senior standing.

**Capstone (Capstone)**

**JOUR 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of Journalism division coordinator.

**JOUR 490H - Individual Honors Thesis**

**JOUR 491H - Honors Readings**

**JOUR 495 - Media Internship**

Hours: Three

Approved Work experience in a media organization. Supervision by professionals and faculty. Prerequisite Junior standing and approval of Journalism division coordinator.

**JOUR 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary.

**JOUR 1307 - Mass Communication in Society**

Hours: Three
JOUR 1307 - (JOUR 114) - A discursive study of mass media organizations, how they operate and exert their influence on individuals and society, enabling students to become knowledgeable and self critical consumers of mass media content. The emphasis will be on those media engaged in news and public affairs reporting and commentary, especially the press and television.

Texas Common Course Number (COMM 1307)

LIBS 300 - Introduction to Liberal Studies

Hours: Three

An introduction to interdisciplinary study and the Liberal Studies major. Through readings in the arts, humanities, social sciences, and sciences, students will develop an appreciation and understanding of disciplinary perspectives. Emphasis on learning how to conduct efficient and effective information searches. Students will develop an Individual Education Plan.

LIBS 310 - Methods of Discovery

Hours: Three

Students will explore and apply a variety of investigative methodologies. Emphasis on the application of advanced reading, thinking, and writing skills to a team-based study of complex problems. Prerequisite LIBS 300

LIBS 320 - Forms of Interdisciplinary Study

Hours: Three

Investigation of an interdisciplinary subject area utilizing careful reading and analysis of interdisciplinary writings. Emphasis on making connections across disciplines and designing and completing a personal research project. Prerequisite LIBS 300, 310

LIBS 400 - Liberal Studies Senior Seminar

Hours: Three

This course provides each student in the Liberal Studies Program with opportunities for making connections among his or her concentration, support fields, other educational experiences, and possible careers. Prerequisite LIBS 300, 310, and 320 - Graduating Seniors Only

Note A project reflecting a sound application of research methods, analytical frameworks, or performance criteria and a learning outcomes learning assessment will also be required. Must be taken in final semester.

MATH 131 - Intermediate Algebra
Basic algebraic operations, equations and inequalities, polynomials, functions, rational expressions, exponents and radicals, quadratic equations, graphing and geometry in the plane, sequences and series. This course is to prepare students for further study at the level of college mathematics.

Note May not be used to satisfy any mathematics or degree requirements.

MATH 142 - Pre-Calculus

Hours: Three

Trigonometric functions and their graphs; radian measurement; solution of triangles; identities; logarithmic and exponential functions; trigonometric equations; applications of trigonometry; conic sections and their graphs. Prerequisite High school geometry and two years of high school algebra or Math 1314.

Texas Common Course Number (MATH 2312)

MATH 176 - Mathematics for Business Applications II

Hours: Three

The derivative, graphing and optimization, exponential and logarithmic functions, integration applications to management, economics, and business. Prerequisite Math 1314 or 1324.

Texas Common Course Number (MATH 1325)

MATH 179 - Mathematics: Applications and Philosophy

Hours: Three

Applications of mathematics which may include graph theory, linear programming, statistics, probability, coding theory and conic sections; logic; topics from the history of mathematics; the mathematical method and philosophy; mathematical writings.

MATH 192 - Calculus II

Hours: Four

This course examines integral calculus of functions of one variable, and some integral calculus of functions of two variables, as follows. Topics include techniques of integration; applications of the integral; improper integrals; limits involving indeterminate forms; sequences and series; some exposure to multiple integrals; and use of computer technology. Prerequisite Math 2413.

Texas Common Course Number (MATH 2414)
MATH 198 - Computer Algebra Systems for Calculus Applications

Hours: One Lecture Lab/ Clock Hours (2 lab)

This course will introduce the student to the use of computer algebra systems for solution of problems found in first year calculus courses. Corequisite Suggested for concurrent enrollment in Math 191, 192.

MATH 301 - Introductory Geometry

Hours: Three

Topics from plane and solid Euclidean geometry, including the properties of parallels, perpendiculurs, triangles, and circles along with perimeter and formulas for area of plane regions and for the surface area and volume of solids. Prerequisite Math 351.

MATH 314 - Calculus III

Hours: Four

Infinite series; vector-valued functions; partial derivatives; multiple integrals; three-dimensional geometry; Green’s Theorem; Stokes’s Theorem; Divergence Theorem. Prerequisite Math 192.

MATH 315 - Differential Equations

Hours: Three

First order equations, second order linear equations, power series solutions, Laplace Transforms, and applications. Prerequisite Math 192.

MATH 317 - Numerical Analysis

Hours: Three

Computer algebra systems will be introduced. Topics include methods for approximate solutions of equations in one variable, polynomial approximation methods, numerical calculus, numerical solutions to ordinary differential equations, linear systems of equations, and difference equations.

Prerequisite CSci 151 and 152; Math 192.

Cross Listed/ Same As Same as CSci 317

MATH 321 - College Geometry
A study of advanced topics in Euclidean plane geometry and an introduction to non-Euclidean geometry. Emphasis will be placed on the axiomatic method. Prerequisite Math 331.

**MATH 331 - Discrete Mathematics**

Hours: Three

Mathematical models, mathematical reasoning, sets, binary relations, counting and algorithm analysis, infinite sets. Prerequisite CSci 151 and Math 192.

**MATH 334 - Introduction to Abstract Algebra**

Hours: Three

Properties of the integers, permutations, groups, rings, integral domains and fields. Prerequisite Math 331.

**MATH 335 - Linear Algebra**

Hours: Three

Vector spaces; linear transformations; matrices; determinants; systems of linear equations; equivalence relations on matrices; characteristic vectors; operators. Prerequisite Math 331.

**MATH 350 - Topics in Mathematics for Elementary Teachers I**

Hours: Three

Topics include problem solving and reasoning, sets, numeration, the four fundamental operations of arithmetic, number theory, integers, fractions, decimals, mental arithmetic and estimation. Students should already have substantial skills in these areas. The course focuses on underlying concepts and multiple techniques of explaining the concepts in addition to extended problem-solving. Prerequisite: Math 1314 with grade of C or better.

Texas Common Course Number (MATH 1350 non-advance credit)

**MATH 351 - Topics in Mathematics for Elementary Teachers II**

Hours: Three

Topics include ratio and proportion, percents, statistics, probability, geometry and measurement. Students should already have substantial skills in these areas. Problem solving under girds all of these topics. The course focuses on underlying concepts and
multiple techniques of explaining the concepts. Prerequisite: Math 350 with grade of C or better.

Texas Common Course Number (MATH 1351 non-advance credit)

**MATH 352 - Topics in Mathematics for Elementary Teachers III**

Hours: One

Topics include using spatial sense to investigate concepts such as direction, orientation, perspective, shape and structure; exploration of basic geometry concepts from synthetic, coordinate, and transformational approaches; classification of, and structure in, two and three dimensional geometric figures; problem solving, particularly problems relating geometric ideas to number and measurement. Course focuses on problem solving and hands-on exploration using manipulative and technology. Prerequisite Math 350.

**MATH 361 - Mathematical Modeling of Science for Middle School I**

Hours: Three

Mathematics will serve as the basis of the course and the following topics will be covered: Mathematical modeling, transformation of functions, data analysis skills, linear models, exponential growth and decay, logarithmic functions, logistic models, power and polynomial models, inverse and direct variation, periodic models and trigonometric functions. Prerequisite Math 141.

**MATH 362 - Mathematical Modeling of Science for Middle School II**

Hours: Three

Mathematics will serve as the basis of the course and the following topics will be covered: Trigonometric functions and relationships, rate of change, derivative concepts, extrema and points of inflection, accumulating change, concepts of the definite integral, finite difference equations. Technology will be a vital part of the course. Prerequisite Math 361.

**MATH 372 - Mathematics Structures and Applications**

Hours: Three

A study of the algebraic processes, polynomials, equations, inequalities, functions, graphs, and mathematics of finance. Prerequisite Math 351.

**MATH 380 - Mathematics History**

Hours: Three
A survey of the history of mathematics; attention will be given to the origin, development and importance of mathematical ideas. Prerequisite Math 301.

**MATH 397 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary.

**MATH 398 - Advanced Computer Algebra Systems Applications**

Hours: One Lecture Lab/ Clock Hours (2 lab)

This course will introduce the student to the use of computer algebra systems for solution of problems found in advanced mathematics. Prerequisite Math 192 or Junior standing.

**MATH 401 - Introduction to Mathematical Statistics**

Hours: Four

Classical probability theory; discrete and continuous random variables; distribution functions; expectation; law of large numbers; central limit other; applications; random sampling; estimation of parameters; hypothesis testing; and other topics as time allows. Prerequisite Math 192.

**MATH 426 - History of Mathematics**

Hours: Three

Selected topics in the history of mathematics; the growth of algebra, trigonometry, geometry, and the calculus; the contribution of different cultures; selected biographies of mathematicians. Prerequisite Math 192 or consent of Instructor.

**MATH 436 - Introduction to Analysis**

Hours: Three

Sequences; limits; functions; continuity; differentiation; integration. Prerequisite Math 192 and 331.

**MATH 437 - Elementary Number Theory**
Mathematical induction, divisibility, prime numbers, congruences, factorization, arithmetic functions, quadratic reciprocity, primitive roots, diophantine equations. Prerequisite Math 331.

**MATH 438 - Complex Analysis**

Hours: Three

The complex numbers; elementary functions and their mappings; complex limits and power series; analytic functions; conformal mapping and boundary value problems; Contour integrals; Cauchy's Theorem; Taylor and Laurent expansions; residues; Liouville's Theorem. Prerequisite Math 314

**MATH 440 - Introduction to Topology**

Hours: Three

Topological spaces, topology of the real line, metric spaces, connectedness, compactness, separation axioms, mappings, continuity, homeomorphisms, product spaces. Prerequisite Math 331.

**MATH 453 - Essentials of Statistics**

Hours: Three

Probability (including discrete and continuous random variables). Techniques of statistical applications concerning descriptive statistics, tests of hypothesis, regression and analysis of variance. Prerequisite One course in college mathematics.

**MATH 460 - Technology and Topics in Mathematics for Secondary Teachers**

Hours: Three

Exploration of problems in algebra, trigonometry, analytic geometry, calculus, Euclidean geometry, probability, statistics and discrete mathematics using technology. The course is intended as a capstone study for prospective secondary teachers of mathematics. Graphing calculators and computers will be employed to illustrate and encourage conjecturing and problem solving with an emphasis on applications. In addition, a brief survey will be made of major documents and resources pertinent to secondary mathematics teachers, such as the NCTM Standards. Prerequisite Math 331 or consent of instructor.

**MATH 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.
Prerequisite Math 331 or consent of head.

Note May be repeated when the topic varies.

**MATH 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For graduate courses, see Graduate Catalog.

**MATH 1314 - College Algebra**

Hours: Three

MATH 1314 - (MATH 141) - Quadratic, polynomial, exponential, and logarithmic equations; solutions of equations in several unknowns; ratio and proportion; variation; arithmetic and geometric progressions; the binomial theorem; permutations and combinations; elementary theory of equations.

**MATH 1324 - Mathematics for Business Applications**

Hours: Three

MATH 1324 - (MATH 175) - Linear equations, quadratic equations, functions, inequalities, mathematics of finance, linear programming, matrices and determinants, systems of linear equations, probability. Applications to management, economics, and business.

Texas Common Course Number (MATH 1324)

**MATH 2413 - Calculus I**

Hours: Four

MATH 2413 - (MATH 191) - This course examines differential and integral calculus of functions of one variable, as follows. Topics include limits; continuity; derivatives; curve sketching; applications of the derivative; the definite integral; derivatives and integrals of the logarithmic, exponential, and trigonometric functions; and use of computer technology. Prerequisite Two years of high school algebra and trigonometry or Math 142.

Texas Common Course Number (MATH 2413)

**MGT 305 - Management and Organizational Behavior**
This course provides a comprehensive analysis of individual and group behavior in organizations. Its purpose is to provide an understanding of how organizations can be managed more effectively and at the same time enhance the quality of employees’ work life. Topics include motivation, goal setting and rewards, job design, group dynamics, work stress, power and politics, international aspects of organizations, organizational structure, decision making, communication and organizational change and development. Prerequisite Junior standing.

**MGT 307 - Operations Management**

Hours: Three

This course is an introduction to the concepts, principles, problems, and practices of operations management. Emphasis is on managerial processes for effective operations in both goods-producing and service-rendering organizations. Topics include operations strategy, process design, capacity planning, facilities location and design, forecasting, production scheduling, inventory control, quality assurance, and project management. The topics are integrated using a systems model of the operations of an organization. Prerequisite Junior standing, Math 1314 or 1324, BA 302, MIS 128 or IT 111.

**MGT 308 - Entrepreneurial Strategy**

Hours: Three

This course introduces students to the challenges of owning, operating, and marketing a successful small business and the need for entrepreneurial focus in large firms. Prerequisite Junior standing, Mgt 305, Mkt 306 or permission of instructor.

**MGT 333 - Legal Environment of Human Resources**

Hours: Three

Major employment legislation affecting personal and business decisions will be examined. Emphasis will be placed on the Civil Rights Act of 1964, as amended, the Americans with Disabilities Act and Age Discrimination in Employment Act. Other topics will include sexual harassment, affirmative action, comparable worth and means of dispute resolution. Prerequisite Junior standing.

**MGT 340 - Quality Management and Improvement**

Hours: Three

This course examines (1) the primary tools and methods used to monitor and control quality in organizations and (2) the ways in which quality can be improved. Included in the course are such topics as the historical development of quality management, the seven basic tools for quality improvement, and management strategies for implementing world class quality improvement strategies. Emphasis is also given to control chart analysis and process capability study. Prerequisite Junior standing.
MGT 348 - Management Dynamics

Hours: Three

An application of management principles to current business challenges. Current issues in management will be discussed, with an emphasis on critical thinking. Prerequisite Junior standing.

MGT 394 - Human Resource Management

Hours: Three

This course provides a study of principles, policies and practices related to staffing, employee development, compensation, employee and labor relations in profit, not-for-profit, domestic and international organizations. Prerequisite Junior Standing.

MGT 422 - Electronic Commerce

Hours: Three

This course exposes students to key strategic management applications relevant to the use of Internet technologies. The goal of the course is to provide students the necessary background of strategic management concepts, technologies, and applications. Required of businesses wanting to become actively involved in the rapidly growing electronic commerce industry. Some exposure to technical issues will also be provided. Prerequisite Senior standing.

Cross Listed/ Same As Same as Mkt 422

MGT 438 - Compensation Management

Hours: Three

A study of total compensation management systems is the focus of this course. Financial considerations emphasized include the environment of the employer organization, organizational policies, job analysis, job evaluation and employee performance appraisal. Non-financial compensation components are studied from the viewpoint of the work environment and job design. Retirement plans and strategies, as well as employee benefits, are also emphasized. Prerequisite Junior standing, Mgt 394.

MGT 439 - Business Strategy

Hours: Three

This course provides a business capstone for the study of the overall functioning of various types of organizations. This course includes a brief study of strategic planning including mission statement development, analysis of external environments and internal organizational factors, development of strategic alternatives, selection of appropriate alternatives, implementation of strategies, and competitive strategies and dynamics. Special emphases are given to the integration and coordination of the functional areas within the enterprise. The case method and/or a business simulation will be used to provide practical experience.
in analysis and decision making in the solution of business problems. Prerequisite Senior standing; Fin 304; BA 302; Mgt 305, 307; Mkt 306.

**MGT 440 - Statistical Process Control**

Hours: Three

This course examines the major statistical tools and methods used for the improvement of quality and processes. Primary emphasis is given to the use of control charts and process capability studies. Prerequisite Junior standing and Mgt 307.

**MGT 441 - Purchasing and Supply Management**

Hours: Three

This course examines the responsibilities related to managing the flow of materials and services into organizations. Traditional purchasing activities of global sourcing, bidding, contract administration and materials management are included in the course. Particular focus is given to the strategic issues of managing the supply function and the creative purchasing activities of developing buying strategy, supply research, economic analysis, value analysis, supplier certification and evaluation, and information systems analysis. Prerequisite Junior standing and Mgt 307.

**MGT 442 - Seminar in Operations Management**

Hours: Three

A study of contemporary problems, policies and practices of industrial management. This course examines competitive position in dynamic world markets and its effects upon labor, management practice, and society. Prerequisite Junior standing and Mgt 307.

**MGT 445 - Retail Management**

Hours: Three

This is a survey course dealing with managerial principles and practices of retail operation, including store location and layout, buying pricing, promotion, services, and inventory control. Prerequisite Mkt 306, Mgt 305.

*Cross Listed/Same As Same as Mkt 445*

**MGT 447 - Production and Inventory Planning and Control**

Hours: Three

This is an advanced study of manufacturing planning and control systems. Special emphasis is given to capacity planning,
materials requirements planning, just-in time production systems, scheduling and inventory management. Prerequisite Junior standing and Mgt 307.

**MGT 453 - Employee and Labor Relations**

Hours: Three

A study of the employment relationship in unionized and non-unionized settings. Emphasis is given to the growth of the labor movement, major provisions of present day federal labor law, institutions that have a major influence on the labor movement, contract negotiation and administration. The future of the labor movement, as well as employee relations in non- and partially-unionized settings, will also be discussed. Prerequisite Junior standing, Mgt 394.

**MGT 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note May be repeated when the topic varies. Consent of head.

**MGT 490 - Honors Thesis**

Hours: Six

**MGT 491 - Honors Reading**

Hours: Three

**MGT 493 - Staffing and Research**

Hours: Three

This course provides an in-depth study of the staffing process which involves moving people into, through, and eventually, out of the organization. The primary emphasis is on human resource planning, recruitment, selection, appraisal, and employment laws, especially equal employment opportunity. Further attention is given to the role of research in the management function. Prerequisite Junior standing, Mgt 394.

**MGT 494 - Human Resource Development**
Hours: Three

This course is an intensive study of the procedures utilized by organizations to facilitate the learning process to assure that these efforts result in the achievement of organizational goals and objectives. Emphasis is given to such topics as learning theory, training and development methods, presentations, evaluation, and administration. Experiential learning exercises are utilized to facilitate the application of theory to organizational practices. Prerequisite Junior standing, Mgt 394.

**MGT 496 - Human Resource Management Seminar**

Hours: Three

As the culminating course for Human Resource Management majors, emphasis is given to current issues and properly relating the role of the human resource function to the other major business areas and to the success of the total organization. Prerequisite Senior standing, Mgt 394.

**MGT 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduate courses, see Graduate Catalog.

**MIS 128 - Business Computer Systems**

Hours: Three

This course is designed to provide students with the skills necessary to use a microcomputer with current important end-user software for communication and decision making and to solve problems within an organizational environment. Includes coverage of software and hardware components, operating system concepts, information structures, internet applications, and formal problem solving techniques.

Note Includes supervised, structured laboratory exercises.

Texas Common Course Number (BCIS 1305)

When Offered (1, 2, 3)

**MIS 315 - Principles of Information Security**

Hours: Three

This is a discussion of the various technical and administrative aspects of Information Security and Assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with
appropriate intrusion detection and reporting features. The purpose of the course is to provide the student with an overview of the field of Information Security and Assurance. Students will be exposed to the spectrum of Security activities, methods, methodologies, and procedures. Coverage will include inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses and an overview of the Information Security Planning and Staffing functions. Prerequisite Junior/Senior standing.

**MIS 326 - Information Systems Technology Productivity**

Hours: Three

Students will extend ability to be efficient and effective in knowledge work by applying information technologies to problem situations and by design and use of small information systems for individuals and groups. Prerequisite MIS 128 or CSci 126 or ETec 224 or IT 111 and Junior standing or instructor permission.

When Offered (1)

**MIS 328 - Project Management and Practice**

Hours: Three

Advanced IS majors operating as a high-performance team will engage in and complete the design and implementation of a significant information system. Project Management, management of the IS function and systems integration will be components of the project experience. Prerequisite MIS 128 or CSci 126 or ETec 224 or IT 111 and junior standing or instructor permission.

When Offered (2)

**MIS 379 - Decision Sciences**

Hours: Three Lecture Lab/ Clock Hours Lecture

This course will be an academically-based work experience within selected organizations related to the discipline of sociology. The purpose of the internship is to provide an arena for the application of classroom principles within the context of the day-to-day reality of the professional world of employment. The internship includes field supervision as well as classroom experiences.

Prerequisite: MATH 1324, BA 302, and Junior standing

**MIS 415 - Policy and Administration in Information Security**

Hours: Three

This course involves detailed examinations of a systems-wide perspective of information security, beginning with a strategic planning process for security. It includes an examination of the policies, procedures and staffing functions necessary to organize and administrative ongoing security functions in the organization. Subjects include security practices, security architecture and models, continuity planning and disaster recovery planning. This course will enable the student to manage the security process in a wide array of business and industrial settings. They will learn to use the tools that will assist in the management process.
also involve. The development of the security implementation philosophy and the manner in which that philosophy should be applied in a variety of business settings. Prerequisite Junior/Senior standing, MIS 315 or instructor approval.

**MIS 422 - Web Based System Development**

Hours: Three

This course will provide the student with the necessary knowledge and skills necessary for the design, construction and implementation of an internet based commerce site. In addition legal, security, cultural, and policy issues will also be discussed. Prerequisite MIS 128, 326 or instructor permission.

**MIS 424 - Networking and Telecommunications**

Hours: Three

This course provides an in-depth knowledge of data communications and networking requirements including networking and telecommunications technologies, hardware, and software. Emphasis is upon the analysis and design of networking applications in organizations management of telecommunications networks, cost-benefit analysis, and evaluation of connectivity options are also covered. Students learn to evaluate and select different communication options within an organization. Prerequisite MIS 128, CSci 126, or ETec 224 or IT 111 and Junior standing or instructor permission.

**MIS 426 - Management Information Systems**

Hours: Three

This course provides students with the understanding of managerial and organization needs to analyze, design, and implement an information system. The role of information services in management, including current professional practices and methodologies, will be covered along with the presentation of systems theory, decision theory, organizational models, types of information systems, information planning, and information systems development. Prerequisite Senior standing

When Offered (1, 2, 3)

**MIS 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advance level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**MIS 497 - Special Topics**
Hours: One to Four
Organized class.

Note May be repeated when topics vary.

**MKT 306 - Marketing**

Hours: Three

This course is an introduction to the concepts, principles, problems and applications of marketing. This course emphasizes all functional areas and institutions of marketing including target marketing and positioning, consumer and organizational markets, product management, pricing, channels of distribution, marketing ethics, promotions, services, and international marketing.

**MKT 366 - Marketing Promotion**

Hours: Three

This course provides an analysis of the promotion networks of business firms to external publics. Emphasis is on enabling students to appraise the effectiveness of marketing tools and their social and economic significance. Prerequisite Mkt 306.

**MKT 367 - Professional Selling and Sales Management**

Hours: Three

This course focuses on developing and maintaining relationships with customers and managing the sales process of finding, coveting, and keeping customers while achieving the organization’s goals. Communication techniques, career planning, selling strategies and tactics, as well as sales duties, responsibilities, and problems are included. Prerequisite Junior standing.

**MKT 386 - Channels of Distribution**

Hours: Three

This course provides a study of the industrial aspects of marketing which includes physical distribution, industrial selling, purchasing, warehousing and wholesaling, and how efficiently each is integrated into the system. Value added industrial buying processes and government marketing are included.

**MKT 422 - Electronic Commerce**

Hours: Three

This course exposes students to key strategic management applications relevant to the use of Internet technologies. The goal of
the course is to provide students the necessary background of strategic management concepts, technologies, and applications. Required of businesses wanting to become actively involved in the rapidly growing electronic commerce industry. Some exposure to technical issues will also be provided. Prerequisite Senior standing.

Cross Listed/ Same As Same as Mgt 422

MKT 436 - Marketing Research

Hours: Three

Techniques of marketing research, research design, analysis and interpretation of marketing data, questionnaire building, and sampling methods are studied in this course. Prerequisite Mkt 306, BA 302.

MKT 445 - Retail Management

Hours: Three

This is a survey course dealing with managerial principles and practices of retail operation, including store location and layout, buying, pricing, promotion, services, and inventory control. Corequisite Mkt 306, Mgt 305.

Cross Listed/ Same As Same as Mgt 445

MKT 467 - Global Consumer Behavior

Hours: Three

Students examine global market segments and how to reach them, their understanding of the consumer buying process as well as psychological and sociological variables which influence and motivate consumers. Prerequisite Mkt 306.

MKT 471 - E-Business Strategy

Hours: Three

This course exposes students to key strategic management and marketing applications relevant to the use of Internet technologies and digital commerce. The goal of the course is to provide students the necessary background of strategic management concepts, technologies, and applications required of businesses wanting to become actively involved in the rapidly growing electronic commerce industry.

MKT 489 - Independent Study

Hours: One to Four
Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**MKT 492 - Marketing Policy and Strategy**

Hours: Three

This course is devoted to strategy determination and problems of marketing decision making. It includes intensive study of the influence of the consumer, product planning, channels of distribution, promotion and pricing policies as applied to student theses on developing a new business. Prerequisite Senior standing, Mkt 306 and consent of instructor.

**MKT 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary.

**MLED 314 - Young Adolescent Development**

Hours: Three

MLED 314 is designed to provide preservice teachers with a knowledge base of the changes and issues that typically affect development in the years from age 8 through adolescence. Students will examine and study the various domains of physical, cognitive, social and emotional development; and will consider how various learning theories, particularly multiple intelligence theory, can inform practices in middle level classroom. The effect of environmental factors on development will also be explored.

**MLED 401 - Differentiating Instruction for Diverse Learners**

Hours: Three

This course teaches preservice teachers how to design instruction to meet the emerging needs of all middle level learners. The beliefs, behaviors, and characteristics of the unique qualities of diverse learners and how these impact literacy and learning will be explored. Research-based teaching practices will be demonstrated and critiqued.

Note Field experiences required with the course.

Prerequisite and/or Corequisite ElEd 200
MLED 402 - Best Practices in Pedagogy and Assessment

Hours: Three

This field-based course provides for examination and implementation of developmentally appropriate instructional and assessment strategies and techniques with an emphasis on problem-based, inquiry-based and technology-based learning; development of extended inter and intra disciplinary learning experiences for middle level learners utilizing appropriate TEKS, resources and materials. Prerequisite Admission to the Teacher Education Program and placement in a NET CPDT Center.

MLED 403 - Organization, Motivation and Management in Middle Level Classrooms

Hours: Three

A field-based course concentrating on communication, methodology, and management perspectives consistent with democratic classrooms and organizational structures that focus on student centered inclusive learning of young adolescents from culturally, economically, and educationally diverse student populations. Prerequisite Admission to the Teacher Education Program and placement in a NET CPDT Center.

MLED 404 - Developing Communication Skills

Hours: Three

A field-based course that focuses on instructional strategies and practices to develop the written, verbal, non-verbal, and technical communication skills of the middle level learner. Also examines the culture and dynamics of communication within the classroom and the schoolfriend will include: process writing; writing in all areas of the curriculum, communication assessment, communicating with technology; and how to guide the middle-level learner in asking critical questions. Prerequisite Admission to the Teacher Education Program and placement in a NET CPDT Center.

MLED 410 - Fostering School, Family, and Community Relationships

Hours: Three

A field-based course emphasizing shared responsibility among educators, students, the family unit, and the community; examining the home-school connections and the roles and responsibilities of educators on a campus. Developing strategies for reciprocal relationships with peers, parents, and the community to promote collaboration while learning to become a reflective and self-assessing practitioner. Includes an investigation of the effects of a collaborative practice such as peer mediation, service learning, or teachers as advisors. Prerequisite Admission to the Teacher Education Program and placement in a NET CPDT Center.

MLED 435 - Integrating Instruction: Science, Mathematics and Technology

Hours: Three

The field-based course will focus on how middle level children learn and develop knowledge and skills in mathematics and
science; varied instructional and assessment strategies that require high expectations and worthwhile opportunities for all students; Texas Essential Knowledge and Skills (TEKS) in mathematics and science; resources for teaching mathematics and science in grades 4-8; and the integration of technology in mathematics and science instruction grades 4-8. Prerequisite MLEd 401 or ElEd 300; Admission to the Teacher Education Program and placement in a NET CPDT Center; and must have passed TSI.

Note Field experience required.

**MUS 100 - Ensembles**

Hours: Zero to Two Lecture Lab/ Clock Hours (3-6 lab)

When Offered (1, 2)

**MUS 111 - Music Literature, II**

Hours: Three

Music Literature, II
Designed for lower division music major students and deals with the characteristics of musical sound, the elements of music as they relate to literature, performance media, musical texture, and form as found in the music of recognized composers in the major periods of music history from the Renaissance to the present. Major emphasis will be given to active listening (recordings, tapes, live performances, etc.), reading about music, score reading, and organized verbal discussion of the music heard. Prerequisite: Music 110 and 115 with a grade of "C" or better.

Texas Common Course Number MUSI 1309

**MUS 114 - Fundamental Theory**

Hours: Four

Theory for students whose placement scores indicate insufficient background for Theory I.

When Offered (1)

**MUS 115 - Theory I**

Hours: Three

A study of fundamentals, chords, keys, voice leading, harmonic progression, inversions, cadences, phrases and periods. Prerequisite Pass placement test for 115 or Theory 114 with a grade of “C” or better. Corequisite Concurrent enrollment with Music 117.
MUS 117 - Ear Training I

Hours: One Lecture Lab/ Clock Hours (2 lab)

Fundamentals of music through sight singing, ear training and the incorporation of movable solemnizations. Studies involve elementary sight singing, dictation of melodic and harmonic intervals and dictation of rhythm and melody.

Texas Common Course Number (MUSI 1116)
When Offered (1, 2)

MUS 125 - Theory II

Hours: Three

A study of non-chord tones and seventh chords. Prerequisite Music 115 with a grade of “C” or better. Corequisite Concurrent enrollment with Mus 117.

Texas Common Course Number (MUSI 1312)
When Offered (1, 2)

MUS 127 - Ear Training II

Hours: One Lecture Lab/ Clock Hours (2 lab)

A course designed to enable students to sight-sing and take dictation in complex rhythms and melodies. Prerequisite Music 117 with a grade of “C” or better.

Texas Common Course Number (MUSI 1117)
When Offered (1, 2)

MUS 133 - Class Instruments

Hours: One Lecture Lab/ Clock Hours (2 lab)

Designed to provide the fundamentals of performance and functional performance abilities in brass, woodwinds, and percussion.

When Offered (1, 2)

MUS 134 - Elementary String Class
Fundamentals of string instrument techniques taught in a semi-heterogeneous grouping in which the instrumentation of a balanced string ensemble is maintained.

When Offered (2)

**MUS 136(a) - Elementary Class Piano**

Hours: One Lecture Lab/ Clock Hours (2 lab)

Introduction to piano literature, chord structure and progressions, improvisation, and sight-reading techniques.

Note Not applicable toward a degree in music.

Texas Common Course Number (MUSI 1181)
When Offered (1, 2)

**MUS 136(b) - Intermediate Class Piano**

Hours: One Lecture Lab/ Clock Hours (2 lab)

Continuation of (a). Prerequisite 136a (or equivalent) with a grade of “C” or better.

Texas Common Course Number (MUSI 1182)
When Offered (1, 2)

**MUS 136(c) - Advanced Chord Class Piano**

Hours: One Lecture Lab/ Clock Hours (2 lab)

Chord progressions, transposition, modulation, accompanying styles, and hymn tunes. Prerequisite Recommended: 136b with a grade of “C” or better. Music Majors must make a “C” or better. Applicable by music majors only toward a degree in instrumental music.

Texas Common Course Number (MUSI 2181)
When Offered (1, 2)

**MUS 139 - Voice Class**

Hours: One or Two Lecture Lab/ Clock Hours (2-4 lab)

Fundamentals of voice production for non-vocal majors.
MUS 141 - Diction for Singers

Hours: Two

Teaches voice students the proper pronunciation and articulation of the English and Italian languages. The students learn the International Phonetic Alphabet (IPA) and application of this tool in the Preparation and performance of solo vocal repertoire.

When Offered (1)

MUS 142 - Diction for Singers

Hours: Two

Teaches students of voice the proper pronunciation and articulation of the French and German languages. The students learn the International Phonetic Alphabet (IPA) and the application of this tool in the preparation and performance of solo vocal repertoire.

When Offered (2)

MUS 149 - Restricted Applied Music

Hours: One

Music 149 is applied music at the beginner level. Most often used for Music Education majors who will be required to teach a variety of instruments other than their primary instrument.

MUS 151 - Minor Applied Music

Hours: One to Four

Private instruction for music majors in keyboard, voice, instruments, or composition. The course includes recitals and performance forums with teacher-directed student evaluations and instructions.

Note May be repeated for credit.

When Offered (1, 2)

MUS 152 - Principal Applied
Hours: One to Four

Private instruction for music majors in keyboard, voice, instruments, or composition. This course includes recitals and performance forums with teacher-directed student evaluations and instructions.

Note May be repeated for credit.

**MUS 215 - Theory III**

Hours: Three

A study of secondary functions, modulation, mode mixture, Neapolitan chord and augmented sixth chords. Prerequisite Music 125 with a grade of “C” or better. Corequisite Concurrent enrollment with Music 217.

Texas Common Course Number (MUSI 2311)
When Offered (1, 2)

**MUS 217 - Ear Training III**

Hours: One Lecture Lab/ Clock Hours (2 lab)

A course designed to enable students to hear, sing, and Notate complex rhythms, modulating melodies, and harmonies. Prerequisite Music 125 and 127 with a grade of “C” or better.

Texas Common Course Number (MUSI 2116)
When Offered (1, 2)

**MUS 225 - Theory IV**

Hours: Three

A study of augmented sixth chords, enharmonic spellings and modulations, chromatic harmony in the late nineteenth century and An Introduction to twentieth-century practices. Prerequisite Music 215 with a grade of “C” or better. Corequisite Concurrent enrollment with Music 227.

Texas Common Course Number (MUSI 2312)
When Offered (1, 2)

**MUS 305 - Integrated Arts for Elementary Teachers**

Hours: Three

Combined with Art 305 and Theater 305, this course is designed to introduce student to various creative theatre, visual, and musical arts contents and experience in the elementary school classroom.
**MUS 310 - Music Technology**

Hours: Three

The course is intended primarily for music majors at the junior or senior level.

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**MUS 313 - Fundamentals of Conducting**

Hours: Two Lecture Lab/ Clock Hours (2 lab)

Development of fundamental conducting skills and an introduction to basic issues of ensemble instructions and/or management. Prerequisite Music 125 or equivalent.

When Offered (1)

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**MUS 316 - Analysis of Music Form**

Hours: Two

Analysis of musical structure from simple binary and ternary forms, the rondo and sonata-allegro forms, and contrapuntal applications. Prerequisite Music 215 with a grade of “C” or better.

When Offered (1)

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**MUS 318 - Counterpoint**

Hours: Two

Principles of contrapuntal writing in the style of J.S. Bach and his successors in the Eighteenth and Nineteenth Centuries. Prerequisite Music 215 with a grade of “C” or better Concurrent enrollment with Music 225 is permitted when necessary.

When Offered (2)

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**MUS 320 - Music Literature for Elementary Music Education**

Hours: Three

Study of music literature from various cultures, eras, and styles appropriate for the beginning musician. The course is for music majors and incorporates vocal and instrumental performance, improvisation, and composition.

When Offered (1)
MUS 321 - Elementary Music Instruments

Hours: Three

This course provides prospective elementary general music teachers with the skills necessary to teach lessons using recorder, pitched and unpitched percussion, and to accompany songs with string instruments.

When Offered (2)

MUS 323 - Music History I

Hours: Three

A study of the historical development of the art of Western music from the Middle Ages through the Baroque Era. Particular attention will be given to music as an aspect of general cultural and intellectual history as well as to the evolution of musical forms and styles.

When Offered (1)

MUS 324 - Music History II

Hours: Three

A study of the historical development and cultural significance of Western art music from the 18th Century to the present. Particular attention will be given to the general stylistic characteristics of each musical period and the historical, technological, and societal reasons for their evolution.

When Offered (2)

MUS 326 - Piano Literature

Hours: Three


Note: May be repeated for credit.

When Offered (2)

MUS 331 - Piano Pedagogy
Hours: Three

A study of various methods and approaches to teaching piano, in class and/or studio environments.

Note May be repeated for credit.

When Offered (2)

**MUS 351 - Minor Applied Music**

Hours: One to Four

Private instruction for advanced music majors in keyboard, voice, instruments, or composition. This course includes recitals and performance forums with teacher-directed student evaluations and instructions.

Note All students must pass the upper division barrier examination prior to enrollment. May be repeated for credit.

**MUS 352 - Principal Applied**

Hours: One to Four

Private instruction for advanced music majors in keyboard, voice, instruments, or composition. This course includes recitals and performance forums with teacher-directed student evaluations and instructions.

Note All students must pass the upper division barrier examination prior to enrollment. May be repeated for credit.

**MUS 397 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary.

**MUS 403 - Voice Production**

Hours: Two Lecture Lab/ Clock Hours (2 lab)

An examination of techniques relating to vocal registration, resonance adjustments, and breath management for the singer. Includes age specific physiological developments and instructional needs of people from childhood through senior adults.

When Offered (2)
MUS 410 - History and Organization of Choral Music

Hours: Two

A study of the history and development of choral music in the public schools. This course includes an examination of aesthetics and technological developments and requires observation of choral ensembles at various levels.

When Offered (2)

MUS 413 - Choral Conducting

Hours: Two

Continuation, development, and expansion of Music 313 with emphasis on choral conducting and issues related to the instruction and/or management of the choral ensemble.

When Offered (2)

MUS 414 - Instrumental Conducting

Hours: Two

Continuation, development, and expansion of Music 313 with emphasis on instrumental conducting. Prerequisite Music 313.

When Offered (2)

MUS 416 - Orchestration/Arranging

Hours: Two

Arranging for various vocal/instrumental ensemble combinations. Prerequisite Music 215 with a grade of “C” or better.

When Offered (2)

MUS 420 - Instrumental Organization

Hours: Two

A study of the organization and administration of the instrumental music program in current application.

When Offered (2)
MUS 430 - Instrumental Literature

Hours: Three

A comprehensive overview of all levels of repertoire ranging from beginning band to college-appropriate works. Each piece will be individually examined to provide students with general information as well as practical suggestions on the inherent challenges unique to it. Students will also examine and analyze the cornerstone works of the band repertoire and their historical significance. Additional topics will include criteria that determine artistic merit and how to effectively program for ensembles at various ability levels.

When Offered (1)

MUS 450 - Music and Movement I

Hours: Three

A pedagogical course to prepare students to teach elementary music for students in Kindergarten through second grade. Accordingly, the course will introduce pedagogical strategies that combine movement and music and examine music-specific topics such as the development child’s singing voice, appropriate song literature, etc.

When Offered (3)

MUS 465 - Music and Movement II

Hours: Three

A pedagogical course to prepare students to teach elementary music for students in grades three through six. Accordingly, the course will introduce pedagogical strategies that combine movement and music activities and examine music-specific topics such as the development child’s singing voice, appropriate song literature, etc. The course will introduce well-known pedagogical strategies such as Off, Kodaly, Dalhousie, etc.

When Offered (3)

MUS 470 - Choral Literature

Hours: Three

A comprehensive study of choral literature styles and genres from the Renaissance through the 21st Century including non-western cultures.

When Offered (1)

MUS 489 - Independent Study
Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**MUS 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduate courses, see Graduate Catalog.

**MUS 1308 - Introduction to Music Literature**

Hours: Three

MUS 1308 - (MUS 110) - Designed for lower division music major students and deals with the characteristics of musical sound, and the elements of music as found in the music of recognized composers including world music and technological changes. Major emphasis will be given to active listening through recordings, live performances, reading about music, and organized discussion of the music heard.

Texas Common Course Number (MUSI 1308)
When Offered (1, 2)

**MUS 1310 - Jazz; New Orleans to Jazz/Rock**

Hours: Three

MUS 1310 - (Mus 102) - This course is designed as an introduction to the history and music of jazz and its cross over into jazz rock. Particular emphasis will be placed on the evolution of various jazz styles as they developed in New Orleans, Chicago, and Kansas City, the big band era of the 30s and 40s and Be-Bop and cool jazz of the late 50s and 60s. Aspects of fusion jazz, new age and synthesized electronic music will be examined in the context of rock influences. Specific artists’ musical styles will be compared and contrasted in terms of rhythm, melody, harmony, and structural consideration. Emphasis will be placed on the performers contribution to the genre through extensive listening to recorded examples.

Texas Common Course Number (MUSI 1310)
When Offered (1, 2, 3, 4)

**PHIL 331 - History of Philosophy I**
Hours: Three

Ancient, Medieval, and Renaissance philosophy. Greek philosophy from the beginnings (Thales, Anaximenes, Pythagoras, Heraclitus, Parmenides, the Atomists, Empedocles, Anaxagoras) to Plato’s and Aristotle’s rationalism, Epicure, the Stoics, and the Skeptics. Prerequisite Eng 1302.

Note Satisfies Humanities option of University Studies.

**PHIL 332 - History of Philosophy II**

Hours: Three

From the Age of Reason to the present, this course may include Kant, Hegel, Schopenhauer, Comte, Nietzsche, Bergson, and Husserl. Prerequisite Eng 1302.

Note Satisfies Humanities option of University Studies.

**PHIL 360 - General Ethics**

Hours: Three

Theories concerning the nature of the good life, human conduct in society, value judgments, ethical standards, and current ethical issues Prerequisite Eng 1302.

Note Satisfies Humanities option of University Studies.

**PHIL 362 - Aesthetics**

Hours: Three

Analysis of aesthetic experience. Problems of “taste” and evaluation in music, literature, painting, architecture, etc. Prerequisite Eng 1302.

Note Satisfies Humanities option of University Studies.

When Offered (2, odd years)

**PHIL 488 - Contemporary Ideas**

Hours: Three

The course studies contemporary ideas, often through nonfiction, that is characterized by originality of topic, breadth of subject matter, clarity of expression, and audacity. In reading logs, students make observations, take notes, and explore questions. In finished writings, they work out connections among ideas from various fields, moving from analysis to synthesis and fresh
insights. Prerequisite Junior or senior standing. Eng 102.

Cross Listed/Same As Same as Eng, Hist, PSci 488
Capstone (Capstone)

PHIL 489 - Independent Study

Hours: Three or Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head. Eng 102.

Note May be repeated when the topic varies.

PHIL 490H - Honors Thesis

PHIL 491H - Individual Honors Readings

PHIL 497 - Special Topics

Hours: Three

Organized class.

Note May be repeated when topics vary.

PHIL 1301 - Introduction to Philosophy

Hours: Three

PHYS 1301 - (PHIL 231) - A general introduction to critical thinking and logic. Study of basic questions of existence and knowledge. Prerequisite Eng 1301.

Note Satisfies Humanities option of University Studies.

Texas Common Course Number (PHIL 1301)

PHIL 2303 - Logic
PHIL 2303 - (PHIL 251) - An introduction to non formal logic and argumentation theory. The course emphasizes clear analysis of written arguments, common fallacies of reasoning, major types of arguments, and the relationships of argument principles to variant argument fields. Prerequisite Eng 1302.

Texas Common Course Number (PHIL 2303)

**PHO 110 - Photography for Non-Majors**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

A survey of basic photography with instruction in basic camera handling and printing black and white pictures.

Note (Not for photography or art majors).

**PHO 111 - Introduction to Digital Media**

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 lab)

This is an intensive semester-long course in which you will learn the technical and conceptual tools to understand the basics of digital media as well as begin to learn the language of the visual narrative. You'll begin to explore the photographic fundamentals of composition and lighting.

**PHO 208 - Basic Photography I**

Hours: Three Lecture Lab/ Clock Hours 3 lecture/2 lab

A foundation course using a mixture of lectures, demonstrations, assignments, field trips and critiques, students learn elements of color photography through an investigation of the basic techniques and aesthetics of digital photography, with an emphasis on creative use of 35 mm camera controls, raw file processing, digital imaging software, archiving and an awareness of the critical issues in contemporary photography.

**PHO 209 - Basic Photography II**

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 2 lab)

Further in-depth exploration on photographic tools and techniques introduced in Basic Photography I, students in this course gain an understanding of color file conversion to black-and-white, advanced digital printing techniques, basic studio and speed lighting techniques, professional presentation of photographic work and investigation of critical issues in contemporary photography. The course uses a combination of lectures, demonstrations, assignments, field trips and critiques with an emphasis on the creation of a cohesive final project and web site Prerequisite Pho 112.
**PHO 210 - Introduction to Studio Lighting**

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 2 lab)

This course introduces the use of advanced studio and location lighting to create photographic illustrations in controlled environments. Lighting techniques are demonstrated and applied in a series of photographic exercises of both tabletop and portraiture. Medium format digital cameras and electronic flash are used to attain control of design, composition, contrast and color temperature. Along with the physical principles of light, concentration on aspects of design, composition, perception and content with an emphasis on technical mastery of photography studio equipment will be addressed.

Prerequisite Photography 209.

**PHO 212 - Visual Perception in Photography**

Hours: Three

Involves photographic seeing and thinking, communicative camera techniques that organize the elements of composition. Students learn the psychology of photography in terms of space, light, time and emotional impact.

Note Lecture only.

**PHO 250 - Digital Image Manipulation I**

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 lab)

An introduction to photographic image manipulation on the Macintosh platform with emphasis on art and illustration. Areas of emphasis will include scanning, archiving, digital enhancement, digital cameras and output of digital files. Corequisite Photos majors will take this course concurrently with Pho 112.

**PHO 280 - Color Photography**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

An advanced study of the theory and practice of color capture and digital color output. Emphasis is placed on the history and psychology of color imaging. Prerequisite Pho 112 and 250.

**PHO 339 - Environmental Portraiture**
An exploration of the creative potential inherent in the relationship between subject and environment in portraiture. Basic portrait strategies in both location and studio settings will be covered. Considerations in lighting, composition, gesture and mood will be discussed. Contemporary issues in portraiture for commercial, editorial and art purposes will be covered. Prerequisite Photography 112.

**PHO 341 - Advertising and Commercial Photography**

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 lab)

Emphasis on technical quality and the methods and techniques of commercial and advertising photography. The student will learn creative control of studio lighting and equipment, and will develop a capacity to generate and refine ideas. Prerequisite Photography 209 and 210.

**PHO 349 - Nature and Wildlife Photography**

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 lab)

Nature and wildlife photographic techniques with emphasis on digital capture and digital portfolio production. One week of shooting in a wilderness area is required. Prerequisite Pho 111.

**PHO 350 - Advanced Digital Photography**

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 lab)

A continuation of Photography 250, this course places increased emphasis on the computer as a tool for the enhancement of photographic imagery or illustration. Prerequisite Pho 250.

**PHO 357 - Documentary Photography**

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 lab)

A workshop on photographic documentary strategies. A range of documentary approaches will be covered. Each student will choose a semester long photographic project. At the conclusion of the class students will assemble an exhibition. Prerequisite Photography 112.

**PHO 359 - Junior Photography Seminar**

Hours: Three Lecture Lab/ Clock Hours (3 lecture, 3 lab)
This is a professional development course that integrates a student's technical and conceptual skills. Students will be required to develop a body of work based on their specific interests and goals. Prerequisite: junior standing, and PHO 112.

**PHO 369 - Alternative Print Making**

Hours: Three; Lecture Lab/Clock Hours (3 lecture, 3 lab)

Experimental, antique and non-silver processes and unconventional modes of presentation. The Gum-Bichromate process, the Cyanotype, “Photographic” processes involving, digital negative production, montage, collage, masking, toning, intensification, and reduction may be included. Prerequisite: Photography 111.

**PHO 379 - Survey of Photographic History**

Hours: Three to Four semester hours:

An examination of the scientific and aesthetic history of photography from its origins to the present. Emphasis is placed on early processes, the pioneers of photography, photography as a visual art and developments in modern photography. Media, trends, and the work of photographers are analyzed.

**PHO 389 - Independent Study**

Hours: One to Four semester hours: Lecture Lab/Clock Hours 3 Lec/3 Lab

**PHO 397 - Special Topics**

Hours: One to Four

Organized class. Topics will be selected from studio, fine art, or experimental photography.

Note: May be repeated when topics vary.

**PHO 403 - Business Practices in Photography**

Hours: Three to Four semester hours:

This course introduces the student to business practices, copyright law, studio operation, marketing, financial management and other practical matters related to the business of photography. Prerequisite: Photography 111.

**PHO 489 - Independent Study**
Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of a member of the Photography faculty

Note May be repeated when the topic varies.

**PHO 495 - Photography Internship**

Hours: Three

Approved work experience in photography. Supervision under the guidance of a practicing professional and departmental faculty member. Corequisite Photography 210.

**PHO 497 - Special Topics**

Hours: One to Four

Organized class. Topics will be selected from studio, fine art, or experimental photography.

Note May be repeated when topics vary. For descriptions of graduate see the Graduate Catalog.

**PHYS 101 - Fundamentals of Science and Engineering**

Hours: One

The nature of science and engineering, recent and projected technological advances, career opportunities, degree and professional registration requirements, code of ethics, and professionalism in various career settings is discussed. The impact of science and engineering on life, health, wealth, environment, and other social areas is explored.

**PHYS 132 - Basic Electronics for Scientists and Engineers**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

AC and DC circuits, semiconductor devices, and linear integrated circuits. Applications include voltage dividers, timing circuits, power supplies, amplifiers, oscillators, and filters. Laboratory stresses basic electronic measurements and circuit fabrication techniques using prototyping hardware and software.

**PHYS 141 - Introduction to Musical Acoustics**

Hours: Four Lecture Lab/ Clock Hours 3 Lec, 2 Lab
The course covers basic physical principles of waves required to understand the phenomenon of music, the characteristics of musical instruments and sound effects of rooms/halls for music majors and any one interested in the sciences behind the music, in musician-friendly format. Basic concepts such as frequency, harmonics, and pitch, physics-based questions on such topics as music acoustics, stringed instruments, wind instruments, singing and electronic instruments will be discussed in lectures. Hands on labs and web-based exercises will supplement the lectures.

Prerequisite University Study requirement in Math 141 or 175 or 179 or 191

**PHYS 201 - Problem Solving in Mechanics**

Hours: One

Extension of concepts developed in introductory mechanics with emphasis on problem solving techniques.

**PHYS 202 - Problem Solving in Electricity and Magnetism**

Hours: One

Extension of concepts developed in introductory Electricity and Magnetism with emphasis on problem solving techniques.

**PHYS 317 - Mathematical Physics I**

Hours: Three

Topics include applications of ordinary differential equations, vector calculus and fourier series to problems in classical mechanics, electricity and magnetism and wave motion. Matrix methods are applied to eigenvalues problems in rigid body mechanics and vibrating systems with many degrees of freedom. Prerequisite : MATH 2413

**PHYS 319 - Scientific Computing**

Hours: Three

Applications of computers in scientific research topics to be covered include molecular dynamics simulations, Monte Carol simulations, genetic algorithms, and animations for insulation of results. Prerequisite Phys 2425, 2426 and CSCi 151 or consent of instructor.

**PHYS 321 - Atomic Physics**

Hours: Three

A study of special relativity, photo electricity, atomic structure and spectra, X-rays, and the wave nature of matter.
PHYS 332 - Digital Logic and Circuitry

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

This course covers the fundamentals necessary to apply state-of-the-art digital components to practical problems in computing and scientific research. Components are constructed, operated, and tested in a laboratory environment. Typical topics covered are digital information and numbers systems, switching algebra and logic networks, flip-flops, registers, gates, arithmetic processors such as adders and counters.

PHYS 333 - Wave Motion, Acoustics, and Optics

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

An introduction to vibrational and wave motion with applications to acoustics, optics, and electromagnetic phenomenon. Prerequisite Physics 2425, 2426, or consent of the instructor

PHYS 397 - Special Topics

Hours: One to Four

Organized class.

Note May be repeated when topics vary.

PHYS 401 - Current Problems

Hours: One

Current problems or topics in research, employment, and trends in physics are considered. Prerequisite Junior standing.

Note The Course may be taken each of four semesters for credit.

PHYS 407 - Science and Society, Contemporary Issues

Hours: Three

In this University Capstone science course, two or three contemporary science issues of importance to global society will be studied from various points of view including scientific, political, and economic.

Note This course cannot be used for a major or minor in science.

Cross Listed/ Same As Same as Chem 407
PHYS 411 - Advanced Mechanics

Hours: Three

A course in the Classical Mechanics of particles and rigid bodies. The methods of Lagrange and Hamilton are introduced. Prerequisite Physics 2425 or 317.

PHYS 412 - Advanced Electricity and Magnetism

Hours: Three

An advanced course in theoretical electricity and magnetism. Prerequisite Physics 2426.

PHYS 414 - Thermodynamics and Kinetic Theory

Hours: Three

Introduction to the kinetic theory of matter and to thermodynamics and statistical mechanics, with applications to physical and chemical systems.

PHYS 418 - Undergraduate Research

Hours: Three

A conference course designed to enlarge the library and laboratory experiences of students with decreasing dependence upon the teacher.

Note Problems will be assigned and progress evaluated by reports and frequent conferences.

PHYS 420 - Introduction to Wave Mechanics

Hours: Three

The development of Schroedinger’s Equation of non-relativistic wave mechanics and its application to simple systems.

PHYS 421 - Materials Science

Hours: Three
The physical, chemical and electrical properties of metals and semi-conductors and the relationship between these properties and the electronic and crystal structures of these materials is studied. Prerequisite Phys 321 and 333.

**PHYS 430 - Optics**

Hours: Three

Fundamentals of geometrical and physical optics and applications to optical instrumentation. Prerequisite Physics 333 or consent of the instructor.

**PHYS 432 - Advanced Electronics**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Embedded logic design and programming. Topics include micro-controller selection, peripheral interfacing, low and high-level programming languages, and micro controller development tools.

**PHYS 441 - Advanced Physics Laboratory**

Hours: Two Lecture Lab/ Clock Hours (4 lab)

An introduction to the equipment and techniques of experimental physics. Experiments are selected from a wide range of fields in physics. Research grade equipment is used in many experiments. Prerequisite: PHYS 2425 and 2426, Junior standing in physics and consent of instructor.

Note May be repeated for up to six hours credit.

**PHYS 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**PHYS 492 - Instrumentation and Control**

Hours: Three

Sensors and actuators in real-time systems. Topics include the physics of sensors and actuators, sensor signal conditioning, real-time data acquisition, elementary signal processing, motion control, and software for instrumentation and control.
**PHYS 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For graduate courses, see Graduate Catalog.

**PHYS 1401 - College Physics**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

PHYS 1401 - (PHYS 111) - Mechanics and heat; including one two-hour laboratory period per week.

Texas Common Course Number (PHYS 1401)

**PHYS 1402 - College Physics**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

PHYS 1402 - (PHYS 112) - Magnetism, electricity, sound, and light, including one two-hour laboratory period per week.

Texas Common Course Number (PHYS 1402)

**PHYS 2425 - University Physics I**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

PHYS 2425 - PHYS 211 - Calculus based physics course in mechanics for science, mathematics and engineering students. Prerequisite Math 2413 or consent of instructor.

Texas Common Course Number (PHYS 2425)

**PHYS 2426 - University Physics II**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

PHYS 2426 - (PHYS 212) - Second semester of calculus based physics with topics in electricity and magnetism for science, mathematics, and engineering students. Prerequisite Phys 2425 or consent of instructor.

Texas Common Course Number (PHYS 2426)
PLS 115 - Introduction to Plant Science

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

An introduction to the principles of plant growth, general crop production, and ornamental and production horticulture.

Texas Common Course Number (AGRI 1407)

PLS 230 - Ornamental Plant Identification

Hours: Three

Ornamental trees, shrubs, vines, and garden annuals and perennials. Their identification, nomenclature, classification, cultural requirements and landscape uses.

PLS 253 - Economic Entomology

Hours: Three

This course introduces students to the major orders of insects and other arthropods of economic importance with specific emphasis on those beneficial and harmful to agricultural and horticultural crops, livestock, pets, and food products. Control techniques using Integrated Pest Management will be included.

PLS 305 - Landscape Design

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Landscaping of homes and public buildings. Nomenclature, uses, placement, and care required by woody ornamentals used in landscaping. Prerequisite PLS 115.

PLS 306 - Plant Propagation

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Principles of plant propagation. Physiology and morphology pertaining to reproduction along with chemical aids. Prerequisite PLS 115 and 309, and Chem 1411.

PLS 309 - Soil Science
Origin, formation, fertility and management of soils. Prerequisite PLS 115, Chem 1411.

**PLS 320 - Soil Fertility and Plant Nutrition**

Hours: Three

Elements required for plant nutrition and their effects on plant growth. Principles of uptake, transport and assimilation. Prerequisite PLS 309.

**PLS 321 - Soil Morphology Classification and Mapping**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

A comprehensive study of the morphological features of the soil profile in relation to soil utilization and management. Emphasis will be given toward soil development, classification, and mapping.

**PLS 323 - Field Crops**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Principles of agronomic crop production practices. Major field crops and management techniques will be studied. Prerequisite PLS 115.

**PLS 326 - Forage and Pasture Crops**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

The production, harvesting, storage, and uses of forage crops, hay and pasture crops, improvements, care and management of pastures given special emphasis. Practice work includes identification of seeds and plants, judging of hay, and field and pasture observation. Prerequisite PLS 115, 309.

**PLS 328 - Introduction to Range Management**

Hours: Three

Principles of range management include plant identification, plant growth and nutrient cycling, range inventory (evaluation, condition, and improvement) and the effects of grazing.
PLS 355 - Interior Plantscaping

Hours: Three

This course provides an introduction into interior plantscapes. The course will include identification, selection, installation, maintenance, and management of plants used in interior landscapes.

PLS 381 - Crop Physiology

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Physiological processes underlying crop management practices and their alternatives. Laboratory exercises will be designed to elucidate these principles. Prerequisite PIS 115, Chem 1407 or 211 and Chem 1411 and 1412.

PLS 417 - Geospatial Mapping

Hours: Three

This course provides students with a basic introduction to geospatial analysis. Students will learn to use GPS equipment to record geographic information about features in the field and incorporate this information into digital maps using a GIS. Prerequisite BSC 1407 or BSC 1413

PLS 420 - Crop Production Practicum

Hours: Three Lecture Lab/ Clock Hours (1 lecture, 4 lab)

Study of crop production practices in this area by actually planting, growing, harvesting, and marketing a crop: (a) Wheat or Oats; (b) Corn; (c) Grain Sorghum; (d) Cotton. A report, including costs and returns, will be due upon completion of the project. Prerequisite PIS 115.

Note Course may be repeated when subject varies, up to a maximum of 9 hours.

PLS 430 - Greenhouse Management

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Greenhouse designs, coverings, heating, cooling and watering systems. Media, pasteurization and handling systems in connection with the growing of greenhouse crops. Economics of production. Prerequisite PIS 115 and 309.

PLS 450 - Landscape Management
Establishing and maintaining plantings on residential and commercial grounds.

**PLS 455 - Turfgrass Management**

Hours: Three

Establishment and maintenance of turfgrasses in lawns, sports fields, and golf courses. Course will include selection, planting, fertilization, maintenance, and pest and disease control.

**PLS 460 - Plant Taxonomy**

Hours: Three

A systematic overview of the plant kingdom focusing on classification and identification of unknown specimens.

**PLS 485 - Plant Breeding**

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

An applied study of genetics, plant breeding techniques and varietal improvement of both agronomic and horticultural crops. Prerequisite PLS 115 and 381.

**PLS 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**PLS 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For description of graduate courses see Graduate Catalog
**PLS 1415 - Introduction to Horticulture**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

PLS 1415 - (PLS 120) - Introduction to the science and art of modern horticultural plant production, including propagation, fertilization, pest control, and pruning; major groups of garden crops including vegetables, fruits and nuts, ornamentals, houseplants, and florist crops; lab includes propagation and culture of garden plants in field and greenhouse.

Texas Common Course Number (AGRI 1415)

**PSCI 222 - Introduction to Law**

Hours: Three

This course provides an overview of the law and the legal system. Topics include basic legal concepts and terminology in various areas of the law; structure, jurisdictions, functions, practices, and political impact of the judicial system at the local, state, and national levels; current issues in law; and ethical obligations of the paralegal. Prerequisite PSci 211 or 212 or consent of the program coordinator.

**PSCI 223 - Legal Research**

Hours: Three

This course is designed to aid the beginning student in acquiring and enhancing legal research skills. Topics covered include the techniques of legal research and writing, sources of the law and how each can be found; case Analysis, legal citation, and legal bibliography; and ethical obligations of the paralegal in legal research. Prerequisite PSci 222 or consent of the program coordinator.

**PSCI 310 - Law Office Management**

Hours: Three

This course is designed to acquaint the paralegal student with the fundamentals of law office management and organization. Topics include the organization and utilization of support personnel, time and billing systems, budgets, case and file management, calendaring and docket control, accounting systems, marketing, legal computer applications, ethical obligations of the paralegal in a law office, and career opportunities for paralegals. Prerequisite PSci 222 and 223 or consent of the program coordinator.

**Cross Listed/ Same As Psci 420**

**PSCI 312 - Bankruptcy for Paralegals**

Hours: Three
This course introduces the student to bankruptcy law with emphasis on the paralegal's role. Topics include individuals and business liquidation and reorganization, debtor's and creditor's rights, litigation proceedings in bankruptcy court, legal concepts and terminology relating to bankruptcy law, ethical considerations for paralegals working in this area, and current computer applications utilized in bankruptcy practice. Prerequisite PSci 222 and 223 or consent of the program coordinator.

**Cross Listed/ Same As Psci 423**

**PSCI 321 - Probate**

Hours: Three

This course provides the student with a basic understanding of Texas Probate code and forms of administration of decedents’ estates and guardianship. Topics include preparation of probate and litigation documents, inventories, claims against estates, annual and final accountings, introduction to will contest proceedings, county and district court filings, and ethical obligations and professional responsibilities of the paralegal working in this area. Prerequisite PSci 222 and 223 or consent of the program coordinator.

**PSCI 322 - Civil Procedure**

Hours: Three

This course focuses on the Texas Rules of Civil Procedure while also giving students experience in the aspects of civil litigation in which a paralegal would be involved before trial. The student is introduced to rules regarding commencement of suits, citation, and pre-trial proceedings. The course also has a practical element requiring students to draft a petition, draft all types of discovery, and summarize a deposition. Prerequisite PSci 222 and 223 or consent of the program coordinator.

**PSCI 323 - Business Law for Paralegals**

Hours: Three

This course provides the paralegal student with a basic and thorough understanding of laws governing the creation and operation of businesses. Topics covered include the formation of business entities (including sole proprietorships, partnerships, corporations, and other business structures), corporate filings, minute book preparation, ethical obligations of the paralegal working in this field, and computer applications being utilized in corporate law practice. Practical skills are emphasized through assigned drafting and formation projects. Prerequisite PSci 222 and 223 or consent of the program coordinator.

**PSCI 324 - Criminal Law and Procedure**

Hours: Three

This course presents the Texas Penal Code and Texas Rules of Criminal procedure. Topics include review of the criminal justice system, stages in criminal prosecution, investigation procedures, legal rights of the accused; documents preparation, ethical obligations of the paralegal working in criminal law practice, and the application of computer applications in criminal proceedings. Corequisite PSci 222 and 223 or consent of the program coordinator.
PSCI 325 - Family Law

Hours: Three

This course is structured around the study of the Texas Family Code, including the principles of divorce, annulment, and suit to declare marriages void, with an overview of child custody and property division. Students are exposed through practical assignments to the legal aspects of marriage/other relationships, duties and liabilities of husband/wife/children, child custody and support, adoption, guardianship, public records research, and the paralegals role in alternative dispute resolution/mediation processes. Additional topics covered include ethical obligations, family law terminology, and application of electronic resources in family law practice. Prerequisite PSci 222 and 223 or consent of the program coordinator.

PSCI 328 - Real Estate Law for Paralegals

Hours: Three

This course focuses on legal principles governing real estate transactions, with particular attention to sales contracts, deeds, mortgages, title insurance, and Texas community property and homestead laws. Emphasis is on the practical skills needed by paralegals to perform all types of real estate transactions, ethical considerations for a paralegal working in this area, and emerging computer applications and resources in real estate practice. Prerequisite PSci 222 and 223 or consent of the program coordinator.

Cross Listed/ Same As Psci 421

PSCI 330 - Introduction to Political Science

Hours: Three

An introduction to the discipline of political science emphasizing the subjects studied by political scientists and the approaches used to illuminate them. Because this course provides a foundation for other upper-level political science classes (except paralegal courses), it should be taken by political science majors, minors, and composite social studies majors at the earliest possible opportunity in their program in the earliest possible opportunity in their program in the department.

When Offered (1)

PSCI 331 - European Political Systems

Hours: Three

An introduction to the comparative study of the political systems of Great Britain and selected European countries, representing different cultural, social, and political environments.

PSCI 332 - Democracy and Democratization
Hours: Three

A study of major theories concerning cultural, social economic, and political conditions that are favorable to the development of democracy.

Note May be repeated when the focus varies.

**PSCI 333 - Non-European Political Systems**

Hours: Three

A comparative study of selected political systems in Africa, Asia, Latin America, and the Middle East.

Note May be repeated when the regional emphasis varies.

**PSCI 335 - Political Economy**

Hours: Three

An introduction to the institutions and processes that shape U.S. domestic political economy including its increasing relationship to the global political economy. Emphasis will be placed on major political actors including Congress, the President, and the Federal Reserve Board and how decisions affect everyday citizens. These topics will be linked to the U.S.’s expanding influence in global institutions such as the WTO. Because this provides a foundation for other upper-level political science (except paralegal courses), it should be taken by political science majors and minors, and composite social studies majors and middle school social studies majors at the earliest possible opportunity in their program in the

**PSCI 341 - The American Presidency**

Hours: Three

The evaluation of the institution of the American Presidency within the framework of the U.S Constitution, the American democratic and partisan political processes, and the processes by which the national government’s public administrators administer and develop public policy.

**PSCI 342 - Introduction to Global Public Policy**

Hours: Three

This course focuses on the political dynamics of global public policy issues such as international development, environmental policy, human rights and international security.

**PSCI 344 - American Political Parties and Electoral Politics**
Hours: Three

A study of party and electoral politics, including campaigning and voting behavior.

**PSCI 345 - Public Opinion**

Hours: Three

A study of public opinion in the United States including the sources and characteristics of political opinions, the role of the media in shaping opinion, and the impact of opinion on elections and public policy methods used in conducting polls are examined and applied.

When Offered (2)

**PSCI 346 - Introduction to Public Policy**

Hours: Three

A course designed to familiarize the student with the problem solving activities of government in such areas as pollution, poverty, unemployment, taxation, education, health care, and technology.

When Offered (1)

**PSCI 347 - Intro to Research Methods**

Hours: Three

This course focuses on the important empirical research methodology employed in Political Science. Topics covered include the scientific method, research design, sampling, probability, as well as descriptive and inferential statistics.

**PSCI 410 - European Political Theory I**

Hours: Three

Political theory in the West from the pre-Socratics through St Thomas Aquinas with attention to those elements most significant for the establishment of authoritative political systems.

When Offered (1)

**PSCI 411 - European Political Theory II**
Hours: Three

Political theory in the West from Machiavelli through the great contract theorists of the seventeenth centuries with attention to those elements most significant for the establishment of constitutional government in America.

When Offered (2)

**PSCI 412 - European Political Theory III**

Hours: Three

Political theory in the West during the nineteenth and twentieth centuries with particular attention to political ideologies and the impact of ideological theories upon the international political system.

When Offered (3)

**PSCI 414 - American Political Thought**

Hours: Three

An examination of the development of the American liberal-democratic political tradition from the colonial era to the present and the influence of dissent upon that tradition.

**PSCI 415 - Introduction to Comparative Politics**

Hours: 3 Lecture Lab/ Clock Hours 3 lecture / 0 lab

Introduction and survey of the structures and processes of political institutions in major types of political systems in the world. These include parliamentary systems, monarchies, Islamic systems, countries of the former Soviet Bloc system, and systems in developing countries

**PSCI 422 - Trial and Appellate Litigation and Procedure**

Hours: Three

This course focuses on the Texas Rules of Civil Procedure pertaining to trails while also giving some introduction to rules pertaining to appeals. From a practical side, the course exposes students to the role of the paralegal in preparing cases for trial, including developing a trial notebook and all its components (depositions, summaries, designation of experts, witness lists, exhibit lists, objection to exhibits/witnesses, and trial testimony). Topics also include the role of alternative dispute resolution processes in civil litigation proceedings and ethical considerations for the paralegal. Prerequisite PSci 322 or consent of the program coordinator.
PSCI 426 - Paralegal Internship

Hours: Three

Basic internship for paralegals who lack experience in the legal field. Course integrates practical experience with the student’s academic program through supervised work in an appropriate legal environment. Prerequisite Completion of at least 18 hours of paralegal specialty or consent of the program coordinator.

Note Requires a minimum of 160 working hours.

PSCI 427 - Torts and Personal Injury Law

Hours: Three

This course focuses on the fundamental common law and statutory concepts of tort law, with emphasis on the paralegals role. Topics include intentional torts, negligence, strict liability, products liability, medical malpractice, special tort actions, including mass torts, immunities, and commonly employed defenses, and paralegal ethics. The course has a practical element requiring students to draft documents, such as a petition and motion for summary judgment, in addition to briefing cases. Students will become familiar with computer applications used in a torts practice. Prerequisite PSci 222 and 223 or consent of the program coordinator.

PSCI 430 - Revolutions and Revolutionary Movements

Hours: Three

A study of major theories of revolutions—their causes, processes and consequences—including close examination of selected cases.

Note May be repeated when the focus varies.

PSCI 437 - Foreign Policy

Hours: Three

A study of the multiple determinants that shape foreign policy including the individual, national, regional, and international levels of analysis. Particular attention will be given to the formation and substance of foreign policy in the post-Cold War era. Focus may vary from the U.S., Latin America, Europe, Middle East and North Africa, and the former Soviet Union and successor states.

Note May be repeated when the focus varies.

PSCI 438 - International Relations
A study of the complex nature of both conflict-driven and cooperative interactions among nation-states and non-state actors that function in the international systemically be on a particular region, law and diplomacy, and international organizations including NGOs and IGOs.

Note May be repeated when the focus varies.

**PSCI 441 - Congressional Politics**

Hours: Three

A study of politics and policy-making in the U.S Congress. Topics include congressional elections, party and committee politics, constituent service, and legislative executive relations.

**PSCI 442 - Constitutional Law**

Hours: Three

This course is an introduction to constitutional law in the United States. Attention is given to important constitutional and legal doctrines by examining major decisions of the US Supreme Court. Topics include the powers of the federal government, federal inter branch conflict, federalism and nation-state relations, and state regulatory power.

**PSCI 443 - Civil Liberties and Civil Rights**

Hours: Three

This course focuses on American constitutional law as it relates to the procedural and substantive rights of individuals by examining major decisions of the US Supreme Court. Topics include the Bill of Rights and the Thirteenth, Fourteenth, and Fifteenth Amendments.

**PSCI 476 - Internship in Government and Politics**

Hours: Three

Internship for students who have the opportunity to gain practical experience working for some level of government or in political campaigns. Prerequisite Consent of head.

**PSCI 488 - Contemporary Ideas**

Hours: Three
The course studies contemporary writing, mostly non-fiction, that is characterized by originality of topic, breadth of subject matter, clarity of expression and audacity. In reading logs, students make observations, take notes, and explore questions. In finished writings, they work out connections among ideas from various fields, moving from analysis to synthesis and fresh insights. Prerequisite Junior standing.

**Cross Listed/ Same As** Same as Eng, Hist, and Phil 488
**Capstone** (Capstone)

**PSCI 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**PSCI 490 - Honors Thesis**

**PSCI 491 - Honors Reading**

**PSCI 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For graduate courses, see Graduate Catalog.

When Offered (1, 2, 3, 4)

**PSCI 2301 - Principles of United States and Texas Government**

Hours: Three

PSCI 2301 - (PSCI 211) - A survey of the underlying ideas, principles, and participatory practices of constitutional government in the United States and Texas. Topics considered include civil liberties and civil rights, constitutionalism, federalism, ideology, pluralism, political culture and socialization, political parties and interest groups, public opinion, republicanism, and voting and electoral politics.

Texas Common Course Number (GOVT 2301)
PSCI 2302 - United States and Texas Government: Institutions and Policies

Hours: Three

PSCI 2302 - (PSCI 212) - An examination of the United States and Texas political systems with emphasis on both formal and informal institutions and the roles they play in the creation and implementation of public policy. Topics considered include the legislative, executive, and judicial branches; bureaucracies; and public policies (formulation and implementation).

Note Due to differences in course content at different institutions, it is recommended that students complete requirement political science (government) at the same institution.

Texas Common Course Number (GOVT 2302)

PSY 210 - Sport Psychology

Hours: Three

An overview of the principles of psychology as applied to sport or recreational activity for enhanced interactions and performance.

PSY 214 - Aspects of Psychology

Hours: One

This course examines professional and research opportunities in psychology and allied fields.

PSY 300 - Learning Processes and Development

Hours: Three

A course designed to provide the student with information about the application of psychological theory to the learning processes and development of children and adolescents. Principles and procedures of measurement and evaluation are also included. The primary objective is to facilitate a clear understanding of the complex, dynamic processes of learning and development.

Note This course is required as part of the Teacher Preparation Program

Texas Common Course Number (PSYC 2306)

PSY 302 - Psychological Statistics: Descriptive and Inferential
The logic and methods of descriptive and inferential statistics and their relation to experimental design in psychology are studied.

**PSY 305 - Experimental Psychology**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

This course is designed to familiarize the student with typical methods and techniques employed in psychology research. Prerequisite Psy 302.

Note In addition to the three hours per week of classroom instruction, the student attends one two-hour laboratory per week to perform experiments in psychology.

**PSY 310 - Psychology and Sociology of Diverse Populations**

Hours: Three

This course will examine the variables which affect the perceptions, beliefs, and behaviors of the microcultures which comprise our population. This course will include, but will not be limited to, culture as a function of socioeconomic status, religion, gender, language, age, exceptionality, geographical origins and ethnicity.

Note Junior standing.

**Cross Listed/ Same As** Equivalent to Psy 311
**Capstone** (Capstone)

**PSY 311 - Psychology and Sociology of Diverse Cultures**

Hours: Three

This field-based course examines the perceptions, beliefs, and behaviors of diverse cultures and their affect on our population. Culture will be examined as a function of socioeconomic status, religion, gender, language, age, exceptionality, geographical origins and ethnicity.

Note Senior Standing and Field-Based Program.

**Cross Listed/ Same As** Equivalent to Psy 310
**Capstone** (Capstone)

**PSY 315 - Physiological Psychology**

Hours: Three
Provides a basis for understanding the way in which biological mechanisms participate in behavior. It emphasizes both peripheral and central mechanisms involved in responding, sensing, motivation, emotion, arousal/sleep, and learning.

**PSY 316 - Abnormal Psychology**

Hours: Three

Emphasis is placed first on a study of the fundamental principles of understanding and appreciating mental disorder. Then a study of the types of disorders including incidence, causes, symptoms, therapy, and prognosis is made.

**PSY 317 - Psychology of Personality**

Hours: Three

The various approaches to the study of personality and a consideration of it's determinant, development, and assessment form the framework of the course.

**PSY 319 - Child Growth and Development**

Hours: Three

How children grow and develop, the stages in the process, and the factors which influence growth and development are considered.

**PSY 321 - Psychology of Adolescence**

Hours: Three

The course considers the patterns of “teenage” growth and development and the factors which influence them.

**PSY 322 - Understanding Human Development**

Hours: Three

The course follows the life span development of the individual, emphasizing the theoretical and experimental approaches to the study of cognitive, personality, social, perceptual, and physical components of development from conception to death.

**PSY 323 - Health Psychology**
This class is designed to introduce the basic concepts of Health Psychology. Students will be introduced to different medical disorders and diseases and the implications for the psychological health and impact on psychological functioning of individuals with these disorders. Psychological treatments for persons with these disorders will be introduced. Topics covered will include depression and illness, traumatic injuries, neuromuscular diseases, cancer, and chronic pain. Also covered will be the use of psychological techniques to improve behaviors for wellness including smoking cessation, proper nutrition, and exercise. Such methods of treatment will include biofeedback, relaxation and behavioral goal setting.

**PSY 327 - Cognitive Social Psychology**

This class is designed to introduce the student to the basic principles of social psychology with an emphasis on the cognitive aspects of interpersonal influence. Topics that will be covered include: social cognition, heuristics, stereotypes, prejudice, discrimination, cognitive dissonance and self-justification, implicit personality theory, attribution, self-serving biases, obedience to authority, and eyewitness testimony.

**PSY 339 - Forensic Psychology**

This course focuses upon the application and practice of psychology in both the civil and criminal justice systems with the following topics examined in depth: police and investigative psychology, family forensic psychology, psychology of crime and delinquency, victimology and victim services, legal psychology, expert witness testimony, consulting psychology, and correctional psychology.

**PSY 341 - Learning and Motivation**

This course presents the basic data of learning and motivation and describes general theoretical approaches to understanding them.

**PSY 350 - Cognition Psychology**

Examines human cognitive processes, including perception, attention, memory, language, problem solving, reasoning, and developmental trends; experimental methods and data, and contemporary theories of cognition.

**PSY 397 - Special Topics**
Hours: One to Four
Organized class.
Note May be repeated when topics vary.

**PSY 403 - Development of Modern Psychology**

Hours: Three
An introduction to the major schools and systems of psychology as they have evolved and as they exist today.

**PSY 404 - Organizational Psychology**

Hours: Three
This course applies behavioral science knowledge to professional organizations. The goal of this course is to understand how businesses can be designed so that both efficiency and the quality of employee life is improved. Topics will include employee selection, psychological testing, training and development, motivation, work stress and health, organizational design and change, consumer psychology, and engineering psychology.

**PSY 409 - Group Processes: The Psychology of Groups**

Hours: Three
This class is designed to introduce the student to the basic aspects of group interaction. The fundamental principles of group membership, identity and interaction will be identified. Topics that will be discussed include leadership, communication skills and patterns, conflict styles and resolutions, viewing diversity as a strength, needs for and uses of power, and team development and training. The student will develop these skills through active participation in numerous group activities and environments.

**Psy 411 - Research Apprenticeship**

Hours: 1 semester hour Lecture Lab/ Clock Hours Lec
This course is an opportunity to gain experience conducting psychological research under the guidance of a faculty mentor. The course format follows an apprenticeship model – students will work with faculty and/or graduate mentor on existing projects, and students will be trained by the advisors. Students will gain knowledge in research design and implementation by assisting in material preparation, testing participants, and coding data. Along with developing research skills, the research internship provides students with a unique opportunity to learn more about a specialized topic of psychology. S/U grading; May be repeated – 6 hour credit maximum.

Prerequisite Registration requires consent of supervising instructor.
Psy 412 - Research Apprenticeship

Hours: 2 semester hours Lecture Lab/ Clock Hours Lec

This course is an opportunity to gain experience conducting psychological research under the guidance of a faculty mentor. The course format follows an apprenticeship model – students will work with faculty and/or graduate mentor on existing projects, and students will be trained by the advisors. Students will gain knowledge in research design and implementation by assisting in material preparation, testing participants, and coding data. Along with developing research skills, the research internship provides students with a unique opportunity to learn more about a specialized topic of psychology. S/U grading; May be repeated – 6 hour credit maximum.

Prerequisite Registration requires consent of supervising instructor.

Psy 413 - Research Apprenticeship

Hours: 3 semester hours Lecture Lab/ Clock Hours Lec

This course is an opportunity to gain experience conducting psychological research under the guidance of a faculty mentor. The course format follows an apprenticeship model – students will work with faculty and/or graduate mentor on existing projects, and students will be trained by the advisors. Students will gain knowledge in research design and implementation by assisting in material preparation, testing participants, and coding data. Along with developing research skills, the research internship provides students with a unique opportunity to learn more about a specialized topic of psychology. S/U grading; May be repeated – 6 hour credit maximum.

Prerequisite Registration requires consent of supervising instructor.

PSY 414 - Introduction to Human-Computer Interaction Design

Hours: Three

Students will learn the fundamental concepts of human-computer interaction and user centered design thinking, through working in teams on an interaction design project, supported by lectures, readings, and discussions. They will learn to evaluate and design usable and appropriate software based on psychological, social, and technical analysis. They will become familiar with the variety of design and evaluation methods used in interaction design, and will get experience with these methods in their project. Topics will include usability and affordances, direct manipulation, systematic design methods, user conceptual models and interface metaphors, design languages and genres, human cognitive models, physical ergonomics, information and interactivity structures, and design tools and environments. Prerequisite : PSY 2301

PSY 443 - Psychology of Death and Dying

Hours: Three

This is the study of the processes of dying and the influence of the threat of death on human behavior.

Note Junior standing.
Capstone (Capstone)

**PSY 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note May be repeated when the topic varies. Consent of head. For graduate, see Graduate Catalog.

**PSY 2301 - Introduction to Psychology**

Hours: Three

PSY 2301 - (PSY 131) - The aim of this course is to give a general understanding of the basic principles of psychology.

Texas Common Course Number (PSYC 2301)

**PSY 2306 - Psychology of Sexual Behavior**

Hours: Three

PSY 2306 - (PSY 232) - A study of the physiological and psychological factors involved in normal and abnormal human sexual behavior with emphasis upon marital adjustment.

**PSY 2315 - Psychology of Adjustment**

Hours: Three

PSY 2315 - (PSY 130) - This course is a presentation of psychological principles which are fundamental to personal and social adjustment.

Texas Common Course Number (PSYC 2315)

**RDG 350 - Reading and Literacy I**

Hours: Three

This course introduces the theoretical foundations of reading and literacy for the teacher in training. The teacher-in-training will explore how reading, literacy, and cognitive processes are developed. Fifteen hours of lab will provide time for field observations of children and teachers to connect theory with actual practice. The focus of this course is an examination of how to implement
TEKS when facilitating literacy acquisition and development. An emphasis on teaching approaches, text genre, writing, listening, speaking, linguistics, cueing systems, phonemic awareness, phonics, word recognition, spelling, and professional resources are included. Prerequisite Minimum overall GPA of 2.50 and must have passed TSI.

**RDG 360 - Word Analysis Skills**

Hours: Three

This course examines word examination of word identification within the context of language. The focus of this course is an examination of how to implement TEKS when facilitating children’s development of the phonological system through writing. Specific attention is given to strategies that are useful to readers in the areas of word knowledge and word analysis. Prerequisite Rdg 350.

Prerequisite and/or Corequisite ElEd 300; minimum overall GPA of 2.50 and must have passed TSI.

**RDG 370 - Reading and Literacy II**

Hours: Three

This course builds upon the theoretical foundations of reading and literacy presented in the previous course, Rdg 350. The teaching-in-training will explore how to integrate school reading and writing instruction. The focus of this course is an examination of how TEKS can be implemented with basal readers, trade books, literature, cognition, reading comprehension, comprehension strategies, formal assessments, and informal assessment strategies. Prerequisite Rdg 350 and ElEd 300; minimum overall GPA of 2.50 and must have passed TSI.

**RDG 380 - Comprehension and Vocabulary in Middle and High Schools**

Hours: Three

This course provides an understanding of factors which influence learning from content area text and teaches specific instructional strategies which promote comprehension, vocabulary development, effective study strategies, and test-taking skills. Includes ways to modify text for diverse learners. Attention is given to the principles of research-based reading instruction.

**RDG 415 - Learning and Teaching with Expository Text**

Hours: Three

This course emphasizes reading comprehension and strategies for interacting with expository materials. The following are examined: the role of text in reading, text analysis methods, content area reading lesson formats, teacher-directed strategies, reader based strategies, levels of thought/questioning, and infusing literature into the content curriculum.

**RDG 448 - Characteristics of English Language Learners**
The characteristics and challenges of English language learners will be explored. Attention will be given to the development of reading fluency and written communications in the content areas with second language learners. Language assessments including the SOLOM will be studied. Prerequisites: Admission to Teacher Education and Placement in NET CPDT Center. Prerequisite Admission to Teacher Education and placement in NET CPDT Center.

**RDG 450 - Building a Community of Readers**

Hours: Three

This course focuses on schema theory, metacognitive theory, critical theory, reader response theory, transactional theory, and social cultural theory as each applies to teaching reading at the middle levels. Comprehension processes for both narrative and expository text will be explored for traditional text and the emerging technologies that encompass literacy. Demonstration of effective strategies to support struggling readers and experience with reading assessments will be included.

**RDG 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note May be repeated when the topic varies. Consent of head.

**RDG 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be graded on a satisfactory (S) or unsatisfactory (U) basis may be repeated when the topic varies. Note: For graduate courses, see Graduate Catalog.

**RTV 109 - Tapes**

Hours: One Lecture Lab/ Clock Hours Lab

Supervised practice and instruction in audio production. Corequisite :RTV 1335

Note Required of all majors and minors for each semester of study of RTV.

**RTV 151 - Broadcast Technology**
A study of the theory, operation, and first echelon maintenance procedures for the basic audio and video systems. Units include basic audio, basic video, and theory and rules. Corequisite: RTV 1335

When Offered (1, 2)

**RTV 209 - KKOM News and Programming**

Hours: One Lecture Lab/ Clock Hours Lab

Supervised practice and instruction in radio. Students work in production, news, announcing, writing, and other radio assignments at KKOM Radio. Required of all majors and minors. May be repeated. Prerequisite RTV 109

Note Required of all majors and minors for each semester of study of RTV.

**RTV 215 - Radio-TV Announcing**

Hours: Three

A study of the principles of radio-TV speaking, including the preparation of commercials, news, and program continuity. An introduction to theory and practices in the broadcasting industry from the studio and production point of view. Corequisite: RTV 1335

Texas Common Course Number (COMM 2331)

When Offered (1, 2)

**RTV 221 - Radio Production**

Hours: Three

Lectures and laboratory experience in audio production equipment, methods, and techniques. Emphasis is placed on radio programming and production. Attention is given to radio formats, new technology, production skills and program management.

When Offered (1)

**RTV 309 - KETR-FM Practicum**

Hours: One Lecture Lab/ Clock Hours Lab

Supervised practice and instruction in radio. Students work in production, news, announcing, writing, and other radio assignments at KETR-FM Radio. Required of all majors and minors. May be repeated. Prerequisite RTV 109 and 209

Note Required of all majors and minors for each semester of study of RTV.
RTV 320 - Radio and Television Writing

Hours: Three

A study of the techniques, style, and format of script preparation for the radio and television media. Scripts include commercial, news documentary, and dramatic programs.

RTV 322 - Video Shooting and Editing

Hours: Three

This course teaches the technical skills and creative principles required for single camera ('film style') video field shooting and post production using Final Cut Studio®. Topics include audio, video recording technology, composition, lighting, continuity, and editing. Experience planning, shooting and editing entertainment- and/or information-based video projects will be provided through hands-on exercises, projects and assignments.

When Offered (2)

RTV 326 - Radio-Television Commercial Practices

Hours: Three

An examination of the total sales function of commercial radio and television stations. Rate cards, audience ratings, and basic commercial practices will be examined and used.

RTV 332 - Multicamera TV Production

Hours: Three

Lectures and laboratory experiences in control room and studio procedures for television broadcasting. Provides the students with an opportunity for learning pre-production, production and post-production of television programs using field shooting for pre-production and multi-camera production techniques of a TV studio. Experiences provided include operation of cameras, control panels, lights, and audio in directing and producing nondramatic programs such as news, commercials, and interviews. Attention is given to the television performance as well as to production techniques.

Prerequisite: RTV 322

RTV 409 - Television Practicum

Hours: One Lecture Lab/ Clock Hours Lab
Supervised practice and instruction in video and broadcast procedures. Students work at video/television assignments in field production, studio production, news, announcing, writing, and editing. Practicum includes work at KETV Cable Channel 3. Required of all majors and minors. May be repeated. Prerequisite RTV 109

Note Required of all majors and minors for each semester of study of RTV.

**RTV 420 - Interactive Media**

Hours: Three Lecture Lab/ Clock Hours 3 lecture / 0 lab

The course explores the Internet, particularly the World Wide Web, as it is used in mass communications, in particular by television and radio news operations. Students will develop a greater appreciation for the history and implications of computer-mediated communication, explore cultural, social and economic issues of interactive media, and learn basic practical skills in various tools of interactive media production. Prerequisite RTV 322.

**RTV 440 - News Practices**

Hours: Three Lecture Lab/ Clock Hours 3 lecture/ 0 lab

Lectures and laboratory experience in creating and producing video news content. The basic rules of broadcast news writing will be covered and television-style stories will be written and produced. Radio and Internet news production will also be covered. Studio and newsroom procedures will be examined. Students will shoot and edit TV news stories and participate in producing a TV newscast. Prerequisite RTV 320, 320, and 420.

**RTV 450 - Advanced Television Production**

Hours: Three

Supervised laboratory experience in producing and directing more complex television programs. Emphasis is placed on mastering the total production sequence from conception through research, writing, planning, taping, and marketing the final project. Prerequisite RTV 322.

When Offered (2, alternate years)

**RTV 451 - Broadcasting Seminar**

Hours: Three

A course designed to acquaint the student with current problems, issues, and practices in the area of commercial broadcasting.

When Offered (1, alternate years)
RTV 453 - Social Media

Hours: Three Lecture Lab/ Clock Hours 3 lecture / 0 lab

This theory-based course will examine concepts of communication, social interaction and community in a digital world. The course will include such interactive media applications as chat, blog, wiki, avatar, comment, Twitter®, Flikr®, Facebook®, MySpace®, Second Life®, podcast and similar Internet sites and techniques of digital media communication. Students are expected to use social media practices to create multimedia learning journals, and small groups will use social media to produce and present projects.

When Offered (1, alternate years)

RTV 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head or RTV head.

Note May be repeated when the topic varies.

RTV 497 - Special Topics

Hours: One to Four

Organized class.

Note May be repeated when topics vary.

RTV 1335 - Introduction to Broadcasting

Hours: Three

RTV 1335 - (RTV 115) - A survey course to provide an understanding of the origin, operation, organization and history of broadcasting in the United States.

Texas Common Course Number (COMM 1335)
When Offered (1,2)

SED 200 - Schools, Community, and Society

Hours: Three

This course is an enriched and integrated pre-service course and content experience that allows for active recruitment and support
of undergraduates interested in careers in teaching. The course provides opportunities for participation in early field experiences including elementary, middle, and high school classrooms with varied and diverse student populations, and serves as a source of support from college and school faculty, preferably to students in small cohort groups. Students analyze the culture of schooling and classrooms from the perspective of current political, social, and familial issues impacting learning environments.

Texas Common Course Number (EDUC 1301)

**SED 300 - The Teaching Profession**

Hours: Three

This course provides prospective teachers with a beginning foundation for understanding learners, enhancing student achievement, and understanding the teaching environment. The course will emphasize the structure, organization, management, and governance of the American school system and current issues related to the semiprofessional legal, ethical, and multicultural foundations of teaching also will be discussed. Prerequisite passing scores on TASP with a minimum reading score of 250.

Note Thirty clock hours of professional field experiences are required.

**SED 302 - Teaching Styles and Learning Styles in Pluralistic Field-Based Environments**

Hours: Three

Affords an experiential component in which public school teachers demonstrate ways to adapt their teaching styles to accommodate students’ learning style preferences. Prospective teachers will achieve knowledge and skill by observing and assisting middle/secondary public school teachers in classroom situations. Prerequisite SEd 300 and Psy 300.

**SED 401 - Curriculum, Teaching Strategies, and Classroom Assessment in Pluralistic Field-Based Environments**

Hours: Three

An experiential component in which public school teachers design and implement culturally diverse curriculum and model the use of a variety of teaching strategies and classroom assessment techniques. Special attention will center on the alignment of curriculum, instruction, and testing. Prospective teachers will achieve knowledge and skill by observing and assisting middle/high school public school teachers in classroom situations. Prerequisite SEd 302 and 404.

**SED 404 - Internship in Secondary Teaching**

Hours: Three

Supervised intern experiences in the secondary school classroom. Regular seminar sessions will focus on concerns directly related to secondary teaching. Prerequisite SEd 300 and Psy 300.

Note The course is to be taken the semester preceding full-time student teaching.
SED 405 - Residency in Secondary Teaching

Hours: Six

Directed teaching for one full semester in the secondary school.

SED 414 - Management and Curriculum Development for Diverse Learners

Hours: Three

Contains the professional body of knowledge necessary for effective teaching. This course emphasizes methods of organizing and managing a classroom based on an understanding of diverse environments. Teacher skills which have been proven to be effective in supporting diversity in the classroom will be developed. The content of this course will include classroom management strategies, curriculum and lesson planning, teaching models, assessment models, and certification issues. Students will exhibit an understanding of the Texas teacher competencies as outlined on the Professional Development portion of the TExES test.

Corequisite: Sed 422.

Note: Enrollment is limited to students accepted into the Aide Waiver program.

SED 415 - Effective Teaching in a Diverse Environment

Hours: Three

This course contains the professional body of knowledge necessary for effective teaching. This course focuses on understanding theories and strategies that address the needs of a diverse population. Included in this course will be diversity issues, refinement of classroom management and planning techniques, teaching strategies, and informal and formal assessment practices. Students will exhibit an understanding of the Texas Teacher competencies as outlined on the Professional Development portion of the TExES test. Prerequisite: SEd 414

Note: Enrollment is limited to students accepted into the Aide Waiver program.

SED 416 - Educational Research for Effecting Teaching

Hours: Three

This course contains the professional body of knowledge necessary for effective teaching. This course emphasizes theories and issues of education that are directly related to teacher professional growth. The content of the course will include site based management, professional ethics, school environment issues, communication issues, educational research and political influences. Students will exhibit an understanding of the Texas teacher competencies as outlined on the Professional Development portion of the TExES test. Prerequisite: SEd 414, 415; or EIEd 414, 415

Note: Enrollment is limited to students accepted into the Aide Waiver Program.
SED 422 - Internship in Teaching

Hours: Three

Supervised experiences in the secondary school designed for post-baccalaureate students who are seeking initial certification at the graduate level. Students will be supervised by teachers, administrators, and University liaisons.

Note: Regular seminar sessions may be held and will focus on concerns related to classroom management practices, curriculum development, and/or instructional strategies.

SOC 310 - Psychology and Sociology of Diverse Populations

Hours: Three

This course will examine the variables which affect the perceptions, beliefs, and behaviors of various micro cultures which comprise our population. The course will include, but will not be limited to, culture as a function of socioeconomic status, religion, sex and gender, language, age, exceptionality, geographical origins and ethnicity. Included in the course will be an analysis of issues related to race, age, sex, and handicap. Prerequisite: Junior standing.

Cross Listed/Same As: Same as Psy 310; equivalent to Psy 311

SOC 311 - Social Class, Wealth, and Power

Hours: Three

The relations among social classes are examined as systems of privilege with inequalities of wealth, power, and prestige among individuals and groups. Forces giving rise to social classes, how one’s position in a class system affects behavior and personality, class conflict, and the impact of other social institutions, especially the economic and political, are studied.

When Offered (1)

SOC 316 - Courtship, Mate Selection, Marriage and Family Patterns

Hours: Three

This course is a general survey course on marriage and family patterns in the United States. Topics covered include family organization, the sociocultural environment surrounding the family, theoretical perspectives on the family, research approaches in studying the family, gendered identities, love and intimacy, the single life, kinship responsibilities, dating and courtship, cohabitation, interpersonal communication, dual career marriages, marital adjustment and human sexuality.

SOC 317 - Contemporary Issues in Marriage and Family

Hours: Three
This course will focus on issues within the contemporary American family. Topics such as divorce, remarriages, blended families, power and violence, the question of, to parent or not to parent, parents and children over the life course, work and family, aging families, family stress and crises, and alternative lifestyles will be covered.

**SOC 318 - Urban Sociology and Anthropology**

Hours: Three

This course examines the city and urban life in international perspective. Sociological and anthropological studies will be used to examine the development and growth of cities the course examines concepts such as urbanism, over-urbanization, and urban primacy as well as social problems characteristic of contemporary urban life.

**Cross Listed/ Same As** Same as Anth 318

When Offered (2)

**SOC 320 - Deviant Behavior**

Hours: Three

An introduction to the general phenomenon of social deviance. The course focuses on criminal as well as non-criminal deviance such as mental disorders, drug use, and prostitution. Theoretical approaches which seek to explain deviance will be critically explained.

**SOC 323 - Sociology of Health and Illness**

Hours: Three

This course examines the social contexts of health, illness, and medical care. It gives prominence to the debates and contrasting theoretical perspectives which provide insight into the political, economic and cultural factors which affect the recognition, distribution and response to illness and disease. Topics include the social construction of health and illness; the global nature of the AIDS epidemic; the patient’s perspective on illness; the development of the health professions and the health work force; alternative systems of healing; ethical issues in medicine as they relate to medical technology; and comparative health care reform.

**SOC 331 - Introduction to Social Research**

Hours: Three

An introduction to the process, logic, and skills of social science research inquiry. The range of research designs, their strengths and weaknesses, the specific research tools needed for the collection of sociological data, and introductory analytical techniques are examined.

Note Required of all Majors and a prerequisite for Sociology 332.
**SOC 332 - Methods of Sociological Analysis**

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 1 lab)

The course is an in-depth examination of the research methods used by sociologists. The selection of appropriate research methods, ethical and practical issues, data collection and preparation, analytical techniques, an introduction to the computer and computer software, and evaluation research are some of the topics to be covered. Prerequisite Sociology 111, and 331 or SWk 350, and Math 141 or 175 or 179.

**SOC 333 - Social Psychology**

Hours: Three

The study of the importance of others’ influence on one’s attitudes, perceptions, motivations, and behavior, the dynamic fragility and power of group participation, and the extent to which human potential is enhanced or severely limited in the context of group life.

**SOC 335 - Global Social Issues**

Hours: Three

This course examines a variety of social issues from a global perspective. In today’s world nations are linked by vast networks of trade, communication, and travel. As a result, social issues once thought of as “local” are rapidly becoming globalized. Issues associated with these increasing linkages are the focus of this class. They include human rights issues, the implications of global media, the transnationalization of crime and terrorism, global environmental issues, international migration, urbanization, and global social and economic inequalities.

**SOC 341 - Sociology of Complex Organizations**

Hours: Three

This course analyzes large-scale bureaucratic organizations. Topics covered within this class are (but not limited to): the characteristics of bureaucracy; the uses of power by organizations; the effectiveness of organizations; and the impact of organizations on societal change.

**SOC 350 - Drugs and Society**

Hours: Three

This course examines the major categories of drugs—stimulants, depressants, hallucinogens, and narcotics. It also investigates other drug related topics and events such as the use of steroids and inhalants; the abuse of over-the-counter drugs; dependency and addiction; and intervention topics. This course includes critical thinking about the drug culture, and emphasis is placed on a cross-culture perspective. Integrating the viewpoints of other disciplines and professions about the drug culture is also a goal of this course.
SOC 370 - Minority Groups

Hours: Three

A general survey of race, ethnic, and minority relations in the United States. Emphasis is placed on theories of prejudice/discrimination and institutional racism in education, politics, and economics.

SOC 436 - Sociological Theory

Hours: Three

This course examines the nature of theory and reviews major sociological theories, especially structural-functionalism, conflict theory, exchange theory, and interaction. Special attention is given to leading figures representative of the above schools of thought. Prerequisite Sociology 1301 or its equivalent.

SOC 475 - Sociology Internship

Hours: Three Lecture Lab/ Clock Hours Lecture

This course will be an academically-based work experience within selected organizations related to the discipline of sociology. The purpose of the internship is to provide an arena for the application of classroom principles within the context of the day-to-day reality of the professional world of employment. The internship includes field supervision as well as classroom experiences.

Prerequisite: SOC 1301 and SOC 331

SOC 480 - Social Psychology of Leadership

Hours: Three

This course examines leadership theories, leadership styles, group dynamics, goal setting, strategy planning, motivation, networking, committee structure and work, parliamentary procedures, time management, and social etiquette.

SOC 485 - Senior Seminar in Sociology

Hours: Three

The course examines ways sociologists can apply their perspective, knowledge, and skills outside the academic world in real work settings—including business, government education, health care, and human services. This course will examine resume preparation, interviewing skills, graduate program and career opportunities, and techniques for a career search. Special attention will be given to leadership skills needed in the world of work.
SOC 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

SOC 497 - Special Topics

Hours: Three

Organized class.

Note May be repeated when topics vary. For description of graduate courses, see Graduate Catalog.

SOC 1301 - Introduction to Sociology

Hours: Three

SOC 1301 - (SOC 111) - This course is designed to help students better understand the social world in which they live as well as provide a foundation for other in sociology. It provides an overview of major concepts and principles of sociology, including culture, socialization, social order, social control, social stratification, sex and gender, race and ethnicity, social deviance, social institutions, and social change.

Texas Common Course Number (SOCI 1301)

SOC 1306 - Social Problems

Hours: Three

SOC 1306 - (SOC 112) - A critical discussion of the sociological perspective on studying descriptions, causes, and prevention of social problems such as crime, mental illness, drug abuse, environmental degradation, poverty, terrorism, and declining quality of life in today's world.

Texas Common Course Number (SOCI 1306)

SPA 131 - Elementary Spanish I

Hours: Three

Pronunciation, elements of grammar, vocabulary, and conversation and composition based on situations in everyday life. Emphasis on the spoken language introduction to Spanish culture.
Texas Common Course Number (SPAN 1311)

SPA 132 - Elementary Spanish II

Hours: Three

A continuation of Spa 131 with emphasis on reading and comprehension and on the spoken language. Spa 131 or approved placement or CLEP or consent of head.

Texas Common Course Number (SPAN 1312)

SPA 231 - Intermediate Spanish I

Hours: Three

Review of language fundamentals and continuation of conversation and composition. Emphasis on pronunciation, listening, and reading skills. Study of Hispanic civilization. Prerequisite Spa 131 and 132 or consent of the head.

Texas Common Course Number (SPAN 2311)

SPA 232 - Intermediate Spanish II

Hours: Three

Introduction to Spanish prose, poetry, or drama, or to Spanish essays on scientific and technical topics. Expansion of vocabulary and syntactical analysis. Further development of reading comprehension. Prerequisite Spa 231 or Consent of head.

Texas Common Course Number (SPAN 2312)

SPA 331 - Spanish Conversation for Oral Proficiency

Hours: Three

Develops oral proficiency through discussion of contemporary issues in the Hispanic world. Special attention to fluency in spontaneous situations and to developing skills for oral use. Prerequisite Spa 232 or consent of the head.

SPA 332 - Spanish Composition and Grammar

Hours: Three
Written communication through creative expression as well as essays, stressing situations that challenge students to think and speak more creatively in Spanish. Development of self-correction techniques. Prerequisite Spa 232.

**SPA 333 - Spanish for Heritage Speakers I**

Hours: Three

This course is designed for heritage speakers of Spanish who demonstrate, by taking the Spanish Placement Exam, the CLEP exam or special permission from a Spanish faculty member (or a combination thereof), an ability to comprehend and produce Spanish but who lack previous formal instruction in the language. Capitalizes upon students’ existing language skills, expands their knowledge base, and develops their ability to read, write and communicate more effectively in the language. Special attention is given to building vocabulary and strengthening composition skills in Spanish. Taught exclusively in Spanish and for heritage or native speakers only. Prerequisite Spa 232 or equivalent by exam.

Note For students majoring or minoring in Spanish or bilingual education, this course replaces the Spa 331 requirement.

**SPA 334 - Spanish for Heritage Speakers II**

Hours: Three

A continuation of Spa 333, consisting of a detailed study of advanced Spanish grammar with emphasis on written expression. Capitalizes upon students’ existing language skills, expands their knowledge base, and develops their ability to read, write and communicate more effectively in the language. Prerequisite Spa 333 or permission of instructor.

Note Exclusively for heritage or native speakers Spanish heritage or native speakers majoring or minoring in Spanish or bilingual education, this course replaces Spa 332.

**SPA 335 - Advanced Conversation and TOPT Preparation**

Hours: Three

Spanish 335 is an advanced conversation course for students who need to improve their oral proficiency and/or who plan to take the TOPT to become certified in bilingual or Spanish education. The course fosters oral proficiency through learning scenarios designed to reflect contemporary issues in the Hispanic world and in the bilingual and Spanish classroom. Special attention to developing skills for the Texas Oral Proficiency Test. Prerequisite Spa 331 or permission of advisor.

Note This course does not count toward the major or minor.

**SPA 341 - Introduction to Spanish Literature**

Hours: Three

An introduction to four genres of Spanish literature: poetry, drama, fiction, and non-fiction prose. The course is designed to develop discriminating reading and writing skills. Prerequisite Spa 332 or 334 or permission of instructor.
SPA 353 - Spanish Culture and Civilization

Hours: Three

Explores the history, politics, social structures and traditions of Spain from the XII Century until today. Special emphasis on contemporary life in Spain and the relations with the Americas and the European Market. Prerequisite Spa 232.

SPA 354 - Latin American Culture and Civilization

Hours: Three

Explores the history, politics, social structures and traditions of Latin America. Begins with the pre-Columbian civilizations and continues through independence movements and the Latin America of today. Prerequisite Spa 232.

SPA 471 - Literature, history and society of Latin America I: From Re-Columbian to Modernismo

Hours: Three

An introduction to the literature, history and society of Latin America from Pre-Columbian to Modernismo (1888). Readings will be from novels, poetry and drama about relevant historical and cultural events. Prerequisite Spa 341 or permission of instructor.

SPA 472 - Literature, history and society of Latin America, II: From Modernismo to the Present

Hours: Three

An Introduction to the literature, history and society of Latin America from Modernismo to the present. Readings will be from novels, poetry and drama about relevant historical and cultural events. Prerequisite Spa 341 or permission of instructor.

SPA 481 - Survey of Early Spanish Literature (1300-1700)

Hours: Three

An introduction to Medieval, Renaissance, and Baroque literature in Spain. Students will ready selections from Novels, poetry, and dramatic works and will study relevant historical and cultural events. Prerequisite Spa 341 or permission of instructor.

SPA 482 - Survey of Modern Spanish Literature (1700 to the present)
Hours: Three

An introduction to Neoclassical, Romantic, Realist, and Contemporary literature in Spain. Prerequisite Spa 341 or permission of instructor.

Note Students will ready selections from novels, poetry, and dramatic works and will study relevant historical and cultural events.

**SPA 485 - Seminar in Spanish**

Hours: Three

A theme-based course presenting diverse aspects of the history, culture, and literature of the Spanish-speaking world. This seminar course requires an original research project that includes an annotated bibliography, active participation in weekly discussions, and an oral presentation based on the research project. Prerequisite Spa 341 or permission of instructor; Junior or Senior standing. May be repeated when topics vary.

**SPA 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

**SPA 490H - Honors Thesis**

Hours: Three

**SPA 491H - Individual Honors Readings**

Hours: Three

**SPA 495 - Internship**

Hours: Three

Approved work experience in a professional organization. Supervision under the guidance of a practicing professional and departmental faculty member. Junior standing and approval of the head.

Note May be repeated once when the internship organization changes.
SPA 497 - Special Topics

Hours: One to Four

Organized class. Prerequisite Permission of the head.

Note May be repeated when topics vary.

SPC 112 - Voice and Phonetics

Hours: Three

A study of the voice mechanism and the International Phonetic Alphabet in order that the student may improve vocal performances and correct careless and ineffective speech habits.

Note Required for all majors.

Texas Common Course Number (SPCH 1342)
When Offered (1, 2)

SPC 312 - Persuasive Communication

Hours: Three

Speeches and techniques are of a persuasive nature. The course includes a critical analysis of the principles and methods influencing belief and action.

When Offered (1)

SPC 317 - Interpersonal Communication

Hours: Three

A study of environmental conditions that affect interpersonal interactions. Attention is given to verbal and non-verbal interactions, interpersonal behavior, communication models and networks, and social influences.

When Offered (1)

SPC 318 - Group Process and Decision Making

Hours: Three
Theory and practice of communicating in small groups. Common barriers to communication will be examined.

When Offered (2)

**SPC 319 - Leadership & Comm**

Hours: Three

This course investigates the communication variables that create effective leadership. Through written assignments, discussion, case studies, and practical application, the student learns about the theories, strategies, and ethics involved in successful leadership and management decisions.

Prerequisite SPC 2301

**SPC 397 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary.

**SPC 408 - Intercultural Communication**

Hours: Three

Overview of the study of cross-cultural communication. Includes a survey of non-western culture, communication concepts, intercommunication problems and approaches to their resolution. Introduces students to the differences in meaning between co-cultures.

**SPC 412 - Theory of Communication**

Hours: Three

A survey of communication from Aristotle to modern times.

When Offered (2)

**SPC 414 - Political Communication**

Hours: Three
Communication by individuals, groups, and the mass media as major political influences on public policy decisions.

When Offered (1)

**SPC 418 - Communication and Social Change**

Hours: Three

The study of the role of communication and mass media in social change. Emphasis is given to the mass media as a prime component for change, although community action and interpersonal approaches are included. Students investigate methods employed by opinion leaders and change agents to accomplish specific goals. Variables addressed include how media defines and disseminates information about issues, how advertising promotes or rejects issues, how lifestyles are portrayed with respect to issues, and how mass media ownership and regulatory policies affect the communication act.

**SPC 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head or speech Communication head

Note May be repeated when the topic varies. For description of graduate courses, see Graduate Catalog.

**SPC 1311 - US - Studies in Human Communication**

Hours: Three

SPC 1311 - (SPC 201) - A study of human communication and language process, speaking and listening and semantics and meaning. How humans are able to reach meaning and understanding through communication

Texas Common Course Number (SPCH 1311)
When Offered (1, 2, 3, 4)

**SPC 1315 - US - Fundamentals of Speech**

Hours: Three Lecture Lab/ Clock Hours LEC

SPC 1315 - (SPC 111) - Basic course in organizing and developing effective intercommunication stress is placed on voice and diction, and general public speaking.

Texas Common Course Number SPCH 1315
When Offered (1,2,3,4)
SPC 1321 - US - Business and Professional Speaking

Hours: Three

SPC 1321 - (SPC 245) - Designed to aid the prospective business or professional person in preparing various types of speaking assignments such as he/she might encounter in his/her career. It is planned for agriculture and business majors, and for other students seeking one course in public speaking. Emphasis is upon structure and techniques of presentation.

Texas Common Course Number (SPCH 1321)
When Offered (1, 2, 3, 4)

SPED 346 - Introduction to Exceptional Children

Hours: Three

A survey of exceptional populations with attention given to the cause of these deviations and their effect upon the individual’s development.

SPED 420 - Learners with Special Needs in Restrictive Environments

Hours: Three

This course will develop skills for planning and organizing special needs populations in restrictive settings, including individuals requiring extensive/pervasive supports. Emphasis will be given to the areas of oral Language development and life adjustment skills.

SPED 449 - Assessment and Evaluation

Hours: Three

A variety of assessment and evaluation procedures will be presented. Normative and criterion referenced procedures will be presented as well as formative and summative evaluation strategies. Prerequisite SpEd 346.

SPED 463 - Managing Special Needs Populations

Hours: Three

Development of skills in managing behaviors of students with disabilities at school, at home with parents and family, in the community, and in employment situations will be emphasized. Professional training in working with parents in the A.R.D process, professional organizations and referral agencies is included.

SPED 464 - Special Populations in the Community
This course examines programs and services available for students, families and adults planning for transition. Examined are variables influencing competitive and sheltered employment, community living and extended care in private and public agencies as well as sources of services, networks and organizations for individuals with disabilities. Prerequisite SpEd 346 and 420.

**SPED 466 - Practicum with Special Needs Populations**

Hours: Three

Observation and guided practice with special needs populations in field-based settings. Activities include the application of developmental and learning theories in applied settings. Prerequisite SpEd 346, 420, and 463.

**SPED 470 - Special Needs Populations in Least Restrictive Settings**

Hours: Three

Students will plan, develop, implement and evaluate social/behavioral and educational programs for special needs students in a field-based environment. Collaboration and transition planning are included. Prerequisite SpEd 449 and 466.

**SPED 472 - Delivery Services in Special Education**

Hours: Six

This course requires observation, participation and direct teaching at the elementary and secondary levels. For students seeking the stand alone, all-level generic special education certification.

**SPED 475 - Collaboration, Accommodation and Modification**

Hours: Three

Collaboration models and accommodation and modification strategies are presented for content area instruction.

**SPED 478 - Physical and Medical Management**

Hours: Three

Techniques and procedures used to manage the physical and medical needs of individuals with severe physical disabilities, multiple disabilities, health impairments, and sensory disabilities. Prerequisite SpEd 346 and 420.
**SPED 480 - Issues for Inclusion**

Hours: Three

Identifying the social/emotional and academic needs of students with special needs in field based inclusive settings management strategies, social skill development and academic modifications will be developed.

Note Limited to interdisciplinary Majors only

**SPED 497 - Special Topics**

Hours: Three

Organized class.

Note May be repeated when topics vary. For graduate courses, see Graduate Catalog.

**SWE 348 - Promoting Mental Health Across Populations**

Hours: Three

This course teaches skills for understanding and promoting mental health for people with developmental disabilities, the aged, people with AIDS and other special needs. Prerequisite SWk 322, 328, 329, 370. Restricted to social work majors. Corequisite SWK 325, 331, 350 required.

When Offered (3)

**SWK 225 - Introduction to Social Work**

Hours: Three

Examines the historical development and current characteristics of the social welfare institution, the nature of professional social work practice, and the educational preparation for generalist social work practice; and clarifies the individual student’s interest in and potential for social work practice. Prerequisite Eng 1301, 1302

Texas Common Course Number (SOCW 2361)
When Offered (1 & 3)

**SWK 250 - Foundations of Social Work Practice**

Hours: Three

Provides an overview of the generalist social work and approach to practice. Students develop relationship-building, problem-identification and data-gathering skills which are used with all levels of client systems. Interviewing and written documentation
skills are developed through role plays and writing assignments. Special attention is given to ethical practice and issues of diversity. Prerequisite SPC 1311 or 1321 Corequisite Concurrent enrollment with SWk 275, unless course was previously taken

When Offered (2)

**SWK 275 - Human Behavior and the Social Environment I**

Hours: Three

Examines biophysical, psychological, and behavioral domains of human development. Individuals and families’ interactions with the environment are emphasized during each phase of the life cycle: infancy and early childhood, adolescence and young adulthood, middle adulthood, and the later years. Major theories to underpin assessment and intervention with individual and family client systems are presented within the broader context of a systems approach. Prerequisite Psy 131. Corequisite Concurrent enrollment with SWk 250, unless course was previously taken.

When Offered (2)

**SWK 322 - Human Behavior and the Social Environment II**

Hours: Three

Examines the theoretical basis for understanding groups, organizations and communities. Emphasis is placed on providing students with theoretical knowledge which can then be applied to assessing and intervening with mezzo and macro client systems. Systems theory is utilized as a framework for understanding interactions between and among social units. Prerequisite SWk 225, 250, 275 and Soc 1301. Restricted to social work majors and social welfare minors. Corequisite Concurrent enrollment in SWk 328, 329, 370 required; Anth 2351 may be taken prior to or concurrently with this course.

When Offered (1)

**SWK 325 - Social Work Practice with Mezzo Systems**

Hours: Three

The practice course teaches the application of social work skills to work with groups students will learn the dynamics of task and process groups and how to apply a systematic approach to the development, implementation, termination and evaluation of groups. Prerequisite SWk 225, 250, 275, 322, 328, 329, 370. Restricted to social work majors. Corequisite Concurrent enrollment in SWk 331, 348, 350 required.

When Offered (2)

**SWK 328 - Social Welfare Policy and Services**

Hours: Three
Students are acquainted with the social welfare institution and learn to analyze how its policies and services interact with other social forces in responding to social problems of clients at all levels of systems. Emphasis is given to the examination of how social policies affect oppressed populations. Prerequisite SWk 225, 250, 275; PSci 2301; Hist 1301. Restricted to social work majors and social welfare minors. Corequisite Concurrent enrollment in SWk 322, 329, 370 required.

When Offered (1)

**SWK 329 - Social Work Practice with Micro Systems**

Hours: Three

This practice course teaches the application of social work skills with individuals and families. Students will apply a systematic approach to interviewing, assessment, intervention and evaluation of work with individuals and families. Special attention will be given to issues of diversity and ethics in practice. Skills are developed through class exercises, videotaped role plays, and written assignments. Prerequisite Swk 225, 250, 275. Restricted to social work majors. Corequisite Concurrent enrollment in SWk 322, 328, 370 required.

When Offered (1)

**SWK 331 - Social Work Practice with Macro Systems**

Hours: Three

This practice course teaches the application of social work skills with organizations and communities. Students will apply a systematic approach to data gathering, assessment, planning, intervention and evaluation with organizations and communities. Special attention will be given to issues of diversity and ethics in practice. Skills are developed through class exercises, role plays, and written assignments. Prerequisite SWk 225, 250, 275, 322, 328, 329. Corequisite Concurrent enrollment in SWk 325, 348, 350 required.

When Offered (2)

**SWK 340 - Global Perspectives of Human Welfare**

Hours: Three

This social work course focuses on the development of student awareness of meeting global human needs. Students are taught to assess and plan culturally appropriate interventions as well as integrate macrotheory into international social work practice. Students will be encouraged to develop awareness that they are part of an international community.

Note Soc 311 may substitute.

When Offered (2 & 3)

**SWK 348 - Promoting Mental Health Across Populations**
This course teaches skills for working with people who have mental illness, developmental disabilities, the aged, people with AIDS and other special needs. Prerequisite SWk 322, 328, 329, 370. Restricted to social work majors. Corequisite Concurrent enrollment in 325, 331, 350 required.

When Offered (2)

**SWK 350 - Social Work Research Methods**

Hours: Three

This course develops students’ knowledge and skills in the use of research designs appropriate for the evaluation of practice with all levels of client systems. Students are also taught to critically evaluate the appropriateness of designs used in published research. Prerequisite Math 1314 or 1324 or 179; 8 sh US Science; SWk 225, 250, 275, 322, 328, 329, 370. Corequisite SWK 325, 331, and 348 required

When Offered (2)

**SWK 360 - Human Service Careers with Children**

Hours: Three

This social work elective is designed to provide students with the knowledge base necessary for work with children/families and professionals in a multitude of human service settings. The content of this course will enhance the knowledge, values, and skills obtained in an undergraduate curriculum. Topics include the functions of a Human Service Worker, Child Protective Services, Education, Juvenile Justice, Community Agencies, Law Enforcement, Legal/Judicial, Medical, and presentation on other areas such as advocacy, client relationships and community-based agencies social work elective.

**SWK 361 - Issues in Family Treatment**

Hours: Three

This elective course is designed to enable students to understand the theories and processes of helping families. Information is provided on diverse family structures and work with families facing divorce, death, domestic violence, and other social problems. Social Work elective.

When Offered (1)

**SWK 362 - Child Welfare**

Hours: Three

This elective course introduces the student to the practice field of child welfare. Topics include child protection laws and their
enforcement, and problems of family and parent functioning that impinge on children’s well-being and the policies and services that relate to these problems. Social Work elective.

When Offered (2)

**SWK 370 - Writing and Technology Skills in Social Work**

Hours: Three

This course develops students’ computer and writing skills for human service settings. Students will learn APA style, Web-based research, Excel, and appropriate documentation skills for practice. Prerequisite Math 1314 or 1324 or 179; 8 sh US Science; SWk 225, 250, and 275. Restricted to social work majors. Corequisite Concurrent enrollment in SWk 322, 328, 329 required.

When Offered (1)

**SWK 422 - Integration of Practice**

Hours: Three

This course is designed to pull together content from SWk 250, 325, 329 and 331 by examining the generalist problem solving approach in its entirety. Assignments are made to facilitate student’s application of the required skills in their field practicum settings. Students will discuss their field experiences in order to link classroom theory with agency-based practice. Prerequisite SWk 250, 325, 329, 331. Restricted to social work majors. Corequisite Concurrent enrollment in SWk 425 is required.

When Offered (3)

**SWK 424 - Generalist Practice in the Field**

Hours: Three

This course provides students with a review of BSW course content, information and skills for professional development, and requires students to demonstrate an understanding of the application of social work theory in practice settings. Prerequisite SWk 422, 425. Restricted to social work majors. Corequisite Concurrent enrollment in 426 required.

When Offered (1)

**SWK 425 - Field Instruction I**

Hours: Three

Students enrolled in this course participate in educationally directed field practice under supervision in a social service agency. Students must complete a total of 160 clock hours of work in the field agency. Prerequisite SWk 225, 250, 275, 322, 325, 328, 329, 331, 348, 350, 370. A GPA of 2.5 overall, and in the major is required to enter. Field is restricted to social work majors. Corequisite Concurrent enrollment in SWk 422 and the permission of the instructor is required.
Note Students must complete a total of 160 clock hours of work in the field agency and must attend a weekly university instructed seminar on campus, which is designed to help students process and understand field experiences.

When Offered (3)

**SWK 426 - Field Instruction II**

Hours: Six

Students enrolled in this course participate in a continuation of Field I in an educationally directed field practice experience under supervision in a social service agency. Prerequisite SWk 422, 425. Permission of the instructor is required. Restricted to social work majors. Corequisite Concurrent enrollment in SWk 424.

Note Students must complete a total of 300 clock hours of work in the field Agency and must attend a weekly university instructed seminar on campus, which is designed to help students process and understand field experiences.

When Offered (1)

**SWK 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of program director.

Note May be repeated when the topic varies.

**SWK 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For graduate, see Graduate Catalog.

**TDEV 370 - Supervised Work Experience in Industry and Business**

Hours: Three

Full-time occupational experience at an approved work situation under supervision of a university faculty member. Designed to meet work experience requirements for teacher certification, to provide opportunities to develop competence in an occupational area, and to acquaint students with standards and procedures used in the industry and business.
Note May be repeated to a maximum accumulation of eight or 32 hours

**TDEV 410 - Utilizing Effective Instructional Techniques**

Hours: Three

Career and technology teachers and business/industrial trainers acquire the knowledge and skills for selecting, applying and evaluating basic instructional techniques and learning principles. Students will demonstrate competencies in presentations utilizing various instructional technologies and techniques.

**TDEV 411 - Managing the Instructional Environment**

Hours: Three

Provides career and technology teachers and business/industrial trainers knowledge and skills for implementing classroom management strategies. Students will conduct learner assessments to develop program performance standards which will be documented through career portfolios. Budgeting procedures, safety practices, legal issues, and instructor liability will be discussed.

**TDEV 412 - Systems Management Applications**

Hours: Three

Focuses on modern theories regarding systems management applications in organizations. Special attention will be given to realities of leadership, power, motivation, group dynamics, decision-making, and organizational change. Prerequisite Mgt 305 or departmental approval.

**TDEV 422 - Internship in Teaching**

Hours: Three

Supervised experiences in the secondary school designed for post-baccalaureate students who are seeking initial certification at the graduate level. Students will be supervised by teachers, administrators, and University liaisons.

Note Regular seminar sessions. May be held and will focus on concerns related to classroom management practices, curriculum development, and/or instructional strategies.

Cross Listed/ Same As Same as ElEd 422

**TDEV 423 - Leadership Applications for Career and Technology**
Hours: Three

Furnishes career and technology teachers and business/industrial trainers with basic theories and strategies for developing effective leaders. Leadership applications such as leadership styles, organizational structures, community service, personal and professional ethics, and career-enhancing technologies will be discussed.

**TDEV 425 - Human Relations for Career and Technology Teachers and Business/Industrial Trainers**

Hours: Three

Furnishes career and technology teachers and business/industrial trainers with knowledge and concepts for developing effective working relationships within the school, community, and workplace. This course includes the development of skills related to problem solving, group dynamics, motivation, communication, and change theory.

**TDEV 427 - Developing Instructional Resources**

Hours: Three

Imparts career and technology teachers and business/industrial trainers with knowledge and skills for developing and using instructional resources.

**TDEV 448 - Designing and Evaluating Curriculum**

Hours: Three

Supplies career and technology teachers and business/industrial trainers with the knowledge and skills needed for designing, developing, and evaluating curricula. Emphasis will be placed on formulating course goals and objectives and on developing a variety of measurement instruments.

**TDEV 450 - Practicum**

Hours: Three

Supervised training in which theory and practice are related to bringing about improvement in job performance.

**TDEV 479 - History and Principles of Career and Technology Education**

Hours: Three

Traces the history and principles of career and technology education. In addition, emphasis will be placed on the administration of career and technology education as it relates to public education.
**TDEV 489 - Independent Study**

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

Note May be repeated when the topic varies. Consent of head.

**TDEV 497 - Special Topics**

Hours: One to Four

Organized class.

Note May be repeated when topics vary. For graduate courses, see Graduate Catalog.

**THE 109 A-B - Practicum**

Hours: One

Supervised practice and instruction in theater production experiences including: set construction, acting, ushering, costuming, house management, lighting, directing, and other activities related to the production of plays.

Note Required of all majors for each semester of study. Practicum is required in addition to the regular course of study.

**THE 209 A-B - Practicum**

Hours: One

Supervised practice and instruction in theater production experiences including: set construction, acting, ushering, costuming, house management, lighting, directing, and other activities related to the production of plays.

Note Required of all majors for each semester of study. Practicum is required in addition to the regular course of study.

**THE 211 - Oral Interpretation**

Hours: Three

Analysis of theme, mood, imagery, and style in order to interpret prose and poetry. Practice in planning and presenting these materials is included.
THE 213 - Fundamentals of Acting

Hours: Three

Basic acting techniques of characterization, role analysis, stage movement, voice and body control.

THE 215 - Technical Theatre

Hours: Four Lecture Lab/ Clock Hours (2 lecture, 4 lab)

Lecture and laboratory in the basic techniques of scene construction, lighting, painting, drafting, and rigging.

Note Laboratory hours include the crewing of one production in addition to supervised labs on the various production areas.

THE 218 - Stage Make-up

Hours: Three Lecture Lab/ Clock Hours (2 lecture, 2 lab)

Theory and practice in straight and character make-up for stage and television. Attention to the study of physiognomy, prosthetic pieces, and character make-up.

Note Included is the crewing of one production.

THE 305 - Integrated Arts for Elementary Teachers

Hours: Three

This course is designed to introduce students to various theatre, visual, and musical arts content and experiences in the elementary school classroom.

THE 308 - Playwriting

Hours: Three
Developing the skill of writing plays is emphasized. Play criticism and review of plays by professionals and students will be stressed.

When Offered (2)

**THE 309 A-B - Practicum**

Hours: One

Supervised practice and instruction in theatre production experiences including: set construction, acting, ushering, costuming, house management, lighting, directing, and other activities related to the production of plays.

Note Required of all majors for each semester of study. Practicum is required in addition to the regular course of study.

**THE 311 - Readers Theatre**

Hours: Three

A study of literary materials with a view to their use in the presentation of programs for adults and children.

Note Practice in planning and presenting these programs is included.

When Offered (2)

**THE 314 - Voice and Movement for the Actor**

Hours: Three

This course is designed for the intermediate and advanced student actor and teaches the student to incorporate effectively the connection of the body and voice into the art of stage acting in both realistic and non-realistic performance constructions.

Prerequisite THE 213

**THE 315 - Stage Dialects**

Hours: Three

A survey of the basic techniques for learning and applying stage dialects. The following dialects are studied: Standard British, French, German, American Southern, and Irish. Prerequisite Speech 112 (Voice and Phonetics).

**THE 316 - Lighting for the Theatre**
Hours: Three

The basic techniques of the principles and practices of lighting design for stage and television. Included are design functions, instrumentation, electricity, history and theories of design. Prerequisite The 2154.

When Offered (1, 2)

THE 340 - History of the Theatre I

Hours: Three

Detailed study of the development of all phases of theatre art and drama from its origins to Elizabethan Theatre. Includes study of theatre plants, plays and major dramatic movements. Prerequisite The 1310 or permission of the instructor.

When Offered (1)

THE 349 - Theatrical Costuming

Hours: Four Lecture Lab/ Clock Hours (3 lecture, 3 lab)

Theory of costume design in relation to unified stage production. A study of fabric, texture, line, mass, color, and periods of dress. Laboratory in costume construction and the crewing of one production.

When Offered (1, 2)

THE 366 - Introduction to Scene Design

Hours: Three

An introduction to the elements of design with a concentration on proper techniques of drafting ground plans and other design drawings. Included is the designing of a final design project. Prerequisite The 215 or permission of the instructor.

When Offered (2)

THE 397 - Special Topics

Hours: One to Four

Organized class.

Note May be repeated when topics vary.
THE 409 A-B - Practicum

Hours: One

Supervised practice and instruction in theatre production experiences including: set construction, acting, ushering, costuming, house management, lighting, directing, and other activities related to the production of plays.

Note Required of all majors for each semester of study. Practicum is required in addition to the regular course of study.

THE 415 - Stage Directing

Hours: Three

The procedure and the problems involved in directing a play from selection of the script, tryouts, and conducting rehearsals to the final production.

When Offered (2)

THE 440 - History of the Theatre II

Hours: Three

Detailed study of the development of all phases of theatre art and drama from the French Renaissance to the present. Includes study of theatre plants, plays and major dramatic movements. Prerequisite The 1310 or permission of the instructor.

When Offered (2)

THE 445 - Projects in Acting

Hours: Three

Advanced Speech and movement for stage. The work includes pantomime, characterization, and materials for interpretation for director as well as for actor. Prerequisite The 213.

When Offered (2)

THE 450 - Voyages of Discovery: Artists and Critics at Work

Hours: Three

A University Studies Capstone course that examines form, context and audience in works of art drawn from drama, literature, music, painting, and film and considered from the viewpoint of both the artist and the critic. Prerequisite Junior Standing.

Capstone (Capstone)
THE 480 - Lyric Theatre

Hours: Three

This course will concern the questions and problems raised by fusion of words and music in musical theatre. Classical and popular repertory from many different nations and cultures are examined. Prerequisite Junior Standing.

Capstone (Capstone)

THE 489 - Independent Study

Hours: One to Four

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. Prerequisite Consent of head.

Note May be repeated when the topic varies.

THE 495 - Senior Theatre Project

Hours: Three

Theatre research and/or creative work that is intended to be the culmination of the theatre or broad field theatre major. The work consists of a project proposal, outline, paper, and bibliography. Prerequisite Senior standing.

THE 497 - Special Topics

Hours: One to Four

Organized class.

Note May be repeated when topics vary.

THE 499 - Rehearsal and Performance

Hours: Three

Preparation and performance with laboratory related to the special problems of Summer Theatre, touring, indoor and outdoor productions. Techniques, practices, and processes in lighting, scenic, costume, sound, management, and acting for the undergraduate student.

Note For description of graduate see Graduate Catalog.
THE 1310 - Introduction to the Theatre

Hours: Three

THE 1310 - (THE 210) - A survey of the fields of theatre activity designed to provide introductory knowledge of all phases of drama, literature, performance, theatre plants and equipment, and production procedures.

Texas Common Course Number (DRAM 1310)
When Offered (1, 2, 3)

TMGT 311 - Environmental & Safety Management

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Study of the history and application of OSHA and EPA regulations and regulatory effects on program management.

TMGT 335 - Construction & LEED Systems

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

This course will emphasize the techniques and methods of sustainable construction/development. Importance of a collaborative team effort from owner, developers, architects, engineers, constructors, and consultants will be integrated into the course Prerequisite : MATH 142

TMGT 336 - Construction Cost Estimating

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Study of the principles and application of construction estimating including quantity takeoff, pricing of materials, classification of work, labor, overhead, specifications, bid procedures, and project scheduling Prerequisite : MATH 142

TMGT 350 - Principles of Technology Management

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Study of leadership and management methodologies necessary to be successful and effective in contemporary technology intensive organizations
TMGT 351 - Managing Cultural Differences

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Study of change management, culture differences and common operating practices in global organizations

TMGT 352 - Principles of Cost Engineering

Hours: Three Lecture Lab/ Clock Hours 3 Lab, 0 Lab

Cost engineering is concerned with the application of scientific principles and techniques to problems of cost estimating, cost control, business planning and management science, profitability analysis, project management, and planning and scheduling Prerequisite: ACCT 221

TMGT 411 - Risk Management

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

This course explores the management of risk including environmental, occupational, financial, security, disaster, risk to the corporate image, and other risks. Prevention, mitigation, and transference of risk are presented Prerequisite: TMGT 311

TMGT 439 - Construction Management

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Study of construction operations, project management and project planning. Includes scheduling, rough diagram preparation, calculating costs, presentations, and controlling Prerequisite: TMGT 336

TMGT 454 - Contracts & Specifications

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Principles and analysis of construction contracts and specifications. Additional aspects of construction management will be included Prerequisite: BA 301
TMGT 455 - Project Planning and Scheduling

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Study of the concepts used in planning and scheduling of projects in both industrial and construction applications. Prerequisite: TMGT 352

TMGT 456 - Value Chain Control & Management

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

Value chain is a high-level management model of how businesses receive raw materials as input, add value to the raw materials through various processes, and sell finished products to customers. Prerequisite: TMGT 350

TMGT 457 - Enterprise Analysis & Trends

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

The course Enterprise Analysis & Trends will present and analyze different types of industries, discuss the question of business cycles, industry performance, industry evolution, as well as the influence of endogenous factors such as technology, economics (such as inflation, interest rates, labor markets, growth), public policies, and regulation. Economic, regulatory and global constraints and limitations of resources that impact enterprise and technology trends will be explored.

TMGT 458 - Project Management

Hours: Three Lecture Lab/ Clock Hours 3 Lecture, 0 Lab

The course covers key components of project management including project integration, project scope management, project time and cost management, quality management, human resource considerations, communications, risk management, and procurement management. Prerequisite: Senior Standing

Faculty A-I
Abbassi, Amir; Associate Professor, Counseling; B.A., M.A., Ph.D., University of North Texas.

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Faculty J-R

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Assistant Professor, Computer Science and Information Systems; B.S. Dokuz Eylul University; Ph.D. University of Arkansas at Little Rock.

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Miller, Mary Francis
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Miller, Michael C.
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Mintu-Wimsatt, Alma T.
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Mitchell, Sarah
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Nash, Ira Chuck
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Zator, Brian  Assistant Professor, Music; B.Med, Baylor University; M.M., University of Michigan, DMA, University of North Texas

College of Arts & Sciences
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<th>Major</th>
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<tr>
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<td><strong>Chemistry</strong></td>
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**Sociology & Criminal Justice**

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*Minimum required hours. Some may be included in first three columns.*

## College of Business & Technology

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**Business Administration & Management Information Systems**

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*Minimum required hours. Some may be included in first three columns.*

**College of Education & Human Services**

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(Course requirements vary depending upon certification sought. Please check with COEHS Advising Center.)
*Minimum required hours. Some may be included in first three columns.

Provost & Vice President for Academic and Student Affairs

Texas A&M University-Commerce Organizational Chart

Vice President for Business and Administration

Vice President for Institutional Advancement