2015-2016 Undergraduate Catalog

Texas A&M University-Corpus Christi

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Telephone: (361) 825-5700

Accreditation

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

The Athletic Training Education Program which offers a Bachelor of Science degree with a Major in Athletic Training is accredited by the Commission on Accreditation of Athletic Training Education (CAATE), 2201 Double Creek Drive, Suite 5006, Round Rock, TX 78664; telephone (512) 733-9700.

The accounting and business bachelor's and master's degree programs are accredited by AACSB International – The Association to Advance Collegiate Schools of Business, 777 South Harbour Island Boulevard, Suite 750, Tampa, FL 33602-5730; USA; telephone 813-769-6500; fax 813-769-6559.

The undergraduate and graduate nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW, Suite 530, Washington, DC 20036-1120; telephone (202) 887-6791.

Texas A&M University-Corpus Christi is an accredited institutional member of the National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190-5248.

The clinical laboratory science program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Rd. Suite 720, Rosemont, IL 60018-5119 – telephone: 773-714-8880.

The bachelor's degree program in geographic information science is accredited by the Applied Science Accreditation Commission (ASAC) of ABET, 111 Market Place, Suite 1050, Baltimore, MD. 21202-4012 – telephone: (410) 347-7700.

The bachelor's degree programs in electrical engineering technology and mechanical engineering technology are accredited by the Technology Accreditation Commission (TAC) of ABET, 111 Market Place, Suite 1050, Baltimore, MD. 21202-4012 – telephone: (410) 347-7700.

The bachelor's degree program in Computer Science-Systems Programming option is accredited by the Computing Accreditation Commission (CAC) of ABET, 111 Market Place, Suite 1050, Baltimore, MD. 21202-4012 – telephone: (410) 347-7700.

The Counseling and Educational Psychology Department's master's programs in community counseling, school counseling, and marriage and family counseling, as well as the doctor of philosophy in counselor education are accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP), 1001 Fairfax Street, Suite 510, Alexandria, VA 22314 – telephone: (703) 535-5990, email: cacrep@cacrep.org

In addition, numerous memberships are held by the University in selective associations and societies that recognize high standards in specific fields.

Student Responsibility

University personnel may assist students in progressing toward the degree that they are seeking. However, the final and ultimate responsibility for understanding and following the degree requirements rests with the students themselves. Each student is held responsible for knowing degree requirements, for enrolling in courses that fit into degree programs and for taking courses in the proper sequence to ensure orderly progression of work. The student must seek advice about degree requirements and other University policies when necessary. The student is held responsible for knowing and abiding by University regulations regarding the standard of work required to continue in the University, as well as those dealing with academic integrity, scholastic probation, suspension, and dismissal. Additionally, the student is expected to comply with the rules in the Student Handbook and Student Code of Conduct, as well as the processes in the latter, which are administered by the Office of Student Affairs. The Student Handbook and Student Code of Conduct are accessible at http://www.tamucc.edu/~students.

The University reserves the right to require a student to withdraw at any time, as well as the right to impose probation on any student whose conduct is unsatisfactory. An admission on the basis of false statements or documents is void upon discovery of the fraud, and the student is not entitled to any credit for work that he/she may have done at the University. Upon dismissal or suspension from the University for cause, there will be no refund of tuition and fees. The balance due the University will be considered receivable and will be collected.

Equal Educational/Employment Opportunity

With respect to the admission and education of students; the availability of student loans, grants, scholarships and job opportunities; the employment and promotion of teaching and non-teaching personnel; and the student and faculty activities conducted on premises owned or occupied by the University, Texas A&M University-Corpus Christi shall not discriminate either in favor of or against any U.S. citizen on the basis of race, creed, color, sex, age, national origin or disability.

Catalog Subject To Change

The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student, or faculty or staff member of Texas A&M University-Corpus Christi 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 in the catalog.

Academic Calendar

Click here for the 2015-2016 Academic Calendar.

General Information

Directory of Campus Offices and Services

College of Graudate Studies

Graduate Admission, Graduate Staff, Graduate Dean

Factuly Center Room 178 (361) 825-2177

email: gradweb@tamucc.edu

Financial Assistance

Office of Financial Assistance

Student Services Center (SSC) 115	(361) 825-2338

Student Services

Office of Student Affairs

University Center (UC) 318	(361) 825-2612

Dean of Students

University Center (UC) 318	(361) 825-2612

Student Housing

University Center (UC) 318	(361) 825-2612

Career Services

University Center (UC) 304	(361) 825-2628

Disability Services

Driftwood Hall 101	(361) 825-5816

Office of International Education

Classroom East (CE) 213	(361) 825-3922

Recreational Sports

Field House 104	(361) 825-2454

University Center and Student Activities	(361) 825-5200
University Center (UC) 226	(361) 825-2707

University Counseling Center

Driftwood Hall 106	(361) 825-2703

University Health Center

Sandpiper Hall 105	(361) 825-2601

Women's Center

University Center (UC) 303 (361) 825-2792

Transcripts; Class Schedules

Office of Admissions and Records

Student Services Center (SSC) 100 (361) 825-2624

Library Services

Mary and Jeff Bell Library (361) 825-2643

Tuition and Fees

Business Office

Student Services Center (SSC) – 1st floor (361) 825-2600

Tutoring

Center for Academic Student Achievement

Glasscock Student Success Center (361) 825-5933

Testing

Office of Academic Testing

Student Services Center (SSC) 210 (361) 825-2334

University Services

University Services (Bookstore, Food Services, Copy Services, Mail Services, SandDollar$ Office) (361) 825-5710

Veterans Educational Benefits

Veterans Affairs Office

Student Services Center (SSC) 101	(361) 825-2331

Police

University Police

Physical Plant	(361) 825-4444

TALK2ME

TALK2ME (361-825-5263) is an informational phone line service at A&M-Corpus Christi for students, parents, faculty, and staff. The trained staff answer questions about the campus, student organizations, colleges, programs, departments, and other topics.

The University

Texas A&M University-Corpus Christi, a public institution of higher education, awards bachelor's, master's, and doctoral degrees. Situated on a coastal island, A&M-Corpus Christi's modern campus serves a diverse population of around 10,000 students, including over 1,750 graduate students. The University is a member of The Texas A&M University System.

Institutional Vision and Mission

Vision

Texas A&M University-Corpus Christi is committed to becoming one of the leading centers of higher education in the Gulf of Mexico region while serving the intellectual, cultural, social, environmental, and economic needs of South Texas. As a result, Texas A&M University-Corpus Christi will invigorate and strengthen the region and state through its educational programs, research initiatives, and outreach efforts.

Mission

Texas A&M University-Corpus Christi is an expanding, doctoral-granting institution committed to preparing graduates for lifelong learning and responsible citizenship in the global community. We are dedicated to excellence in teaching, research, creative activity and service. Our supportive, multicultural learning community provides undergraduate and graduate students with a challenging educational experience through residential, distance learning and international programs. The university's federal designation as a Hispanic Serving Institution (HSI) provides a foundation for closing educational gaps, while its strategic location on the Gulf of Mexico and on the cultural border with Latin America provides a basis for gaining national and international prominence.

Institutional History

The island campus of Texas A&M University-Corpus Christi has been a setting for higher education since 1947. That year, Ward Island became the home of the University of Corpus Christi (UCC), an institution affiliated with the Baptist General Convention of Texas. The UCC campus was developed on land previously used by the U.S. Navy as a radar training facility.

In 1970, Hurricane Celia severely damaged the college campus. The following year, UCC and the Baptist General Convention took steps to end their affiliation. Concerned about higher education in Corpus Christi, a coalition of civic leaders sought local support as well as state legislation to convert the campus of UCC to a state-supported institution with an expanded curriculum.

In 1971, the 62nd session of the Texas Legislature authorized the creation of a state-supported institution of higher education in Corpus Christi. The Board of Directors of the Texas A&I University System was authorized to establish an upper-level university and to prescribe courses for the new institution at the junior, senior, and graduate levels leading to both bachelor's and master's degrees.

Funding was approved by the legislature to initiate planning for the university. The citizens of Corpus Christi approved a bond issue to purchase the campus of the University of Corpus Christi on Ward Island. Subsequently, the campus was given to the State of Texas as a site for the new state-supported university. Civic leaders in Corpus Christi also launched a successful public fund raising campaign to provide local financial support for the fledgling university. On September 4, 1973, several months after UCC completed its final classes, Texas A&I University at Corpus Christi opened its doors with an initial enrollment of 969 students.

In 1977, the legislature changed the name of the institution to Corpus Christi State University. The name of the University System, which also included Laredo State University and Texas A&I University, was changed the same year to the University System of South Texas (USST).

In 1989, the Texas Legislature abolished the University System of South Texas and merged Corpus Christi State University and the other two USST universities into The Texas A&M University System. In the same year, the legislature approved the expansion of Corpus Christi State University to a four-year comprehensive university, with enrollment of freshmen and sophomores to begin in fall 1994. In 1992, the role of the institution was expanded further when the Texas Higher Education Coordinating Board authorized the University to offer its first doctoral degree program. Another milestone occurred in 1993 when The Texas A&M University System Board of Regents renamed the institution Texas A&M University-Corpus Christi.

The arrival of freshman and sophomore students in 1994 marked the transformation of the institution to a four-year university. Since then, student enrollment, facilities, and program offerings for both undergraduate and graduate students have continued to expand. In 2008, the City of Corpus Christi donated approximately 137 acres of land near the island campus to ensure adequate space for future growth.

Campus Facilities

Located on its own 240-acre island, the University features modern classroom buildings, support facilities, and student apartments and residence halls. Surrounded by the waters of Corpus Christi and Oso Bays, the campus is approximately ten miles from downtown Corpus Christi. Plazas, landscaping, and sculptures enhance the island campus. The University is also developing an additional 137 acres located off of Ennis Joslin Road.

Mary and Jeff Bell Library

The Mary and Jeff Bell Library is the University's major resource for research and study. The Library houses a collection of approximately 578,000 books, bound periodicals, microforms, and government publications, and maintains subscriptions to over 2,800 serials and research sets in paper and microform formats. In addition, the Library provides electronic access to 200,000

addititional title through approximately 250 database subscriptions. Strong media collections and significant collections of South Texas books and archival materials provide unique resources for scholars.

Librarians assist individuals in locating, using, and evaluating information resources that support and enhance curriculum and research. Librarians also instruct classes in the use of information resources in specific subject areas. Librarians review resources and services regularly to ensure that both collections and services meet changing curricular needs and support the development of new academic programs.

The Special Collections and Archives Department houses a collection of rare books and archives dealing primarily with the life, history and culture of Corpus Christi and South Texas as well as other books and manuscripts that require special housing and handling. These materials are available to individual students, university classes, and researchers under special and appropriate conditions within the department.

The Library is also an authorized depository for both federal and state publications. As a depository the library provides the university and general public with access to government information in many formats.

The Library actively participates in national, state, and regional networks, commercial information services, area library agreements and interlibrary loan arrangements that provide access to materials not available on the Texas A&M University-Corpus Christi campus. Through the statewide TexShare cooperative library program, students and faculty have borrowing privileges at many other academic and public libraries in Texas.

Computing Resources

Student computing facilities at Texas A&M University-Corpus Christi are part of the campus network. Computer laboratories available for student use are located in the library and several other buildings. Various types of personal computers, such as Macintosh, RISC, and PC type; full-page scanners; laser printers; and graphic stations make up the laboratory machinery. Most computer laboratories are open over 85 hours per week, and are staffed with student lab assistants who provide support in various programs. The laboratories are equipped with a wide range of software applications, such as word processors, spreadsheets, graphics programs, programming languages, and specialized software applications that support individual classes. Internet access and e-mail are available for university students either on or off campus. Wireless access is available. Remote access to the network is provided through dial-in facilities and the World Wide Web. Students are afforded assistance by training classes, computer help sheets, and a helpdesk.

Student Services Center

In the round building near the center of campus, students can find the Offices of Admissions and Records, Financial Assistance, and Veterans Affairs, as well as the Business Office, Academic Advising Transition Center, Academic Testing Center, and other units serving students.

Classroom Facilities

Classroom facilities are located in the Center for Instruction, Center for the Sciences, Science and Technology Building, Center for the Arts, Bay Hall, and Corpus Christi Hall. Many teaching areas include state-of-the art audio-video and computer equipment.

Visual and Performing Arts Facilities

The Performing Arts Center features a 1500-seat concert hall where local, national, and international artists perform. The Center for the Arts houses the Warren Theatre (a 275 seat, continental-style auditorium), the Wilson Studio Theatre (an experimental

theatre), and the Weil Gallery. Also affiliated with the University is the Art Museum of South Texas, located in downtown Corpus Christi.

University Center

The University Center provides facilities and services for students, faculty, staff, and guests of the University. The 98,000 square-foot center contains student services offices, space for student organizations and student activities, food services, the bookstore and other shops, the campus post office, a branch bank and automatic teller machine, study lounges, meeting rooms, and entertainment areas.

Conrad Blucher Institute for Surveying and Science

The Conrad Blucher Institute for Surveying and Science houses research laboratories and provides research and professional development for surveyors, science education and surveying related research.

Carlos F. Truan Natural Resources Center

University programs and state agencies focusing on natural resources are housed in the Carlos F. Truan Natural Resources Center, as is the College of Graduate Studies.

Dugan Wellness Center

The Dr. Jack and Susie Dugan Wellness Center includes a gymnasium, free weights, weight machines, cardiovascular exercise equipment (treadmills, elliptical trainers, steppers and bikes), multi-purpose group exercise rooms, and offices for the Recreational Sports Department and Intercollegiate Athletics Department. The adjacent outdoor complex includes multi-purpose playing fields and a 25-yard outdoor seasonal pool.

Harte Research Institute

This research facility houses the endowed Harte Research Institute for Gulf of Mexico Studies, whose mission is to support and advance the long-term sustainable use and conservation of the Gulf of Mexico.

Blanche Davis Moore Early Childhood Development Center and Math and Science Resource Center

The Blanche Davis Moore Early Childhood Development Center serves as a public school for area children and as a university teaching laboratory and research center. Children attending the school are selected from a stratified random sample. Housed adjacent to the Blanche Davis Moore Early Childhood Development Center is the Math and Science Resource Center which addresses the nation-wide shortage of math and science teachers through programs for teachers and students.

Other Facilities

The Moody Sustainers Fieldhouse includes a gym and racquetball/handball courts. Located nearby are a 25-meter swimming pool and lighted playing fields.

List of Degree Programs

Degree Programs

Academic Area	Undergraduate Degree	Graduate Degree	College*
Accounting	BBA	MAcc	BUS
Applied Arts & Sciences	BAS	—	LA
Art	BA, BFA	—	LA
Art, Studio	—	MA, MFA	LA
Athletic Training	BS	—	EDU
Biology	BS	MS	S&E
Biomedical Sciences	BS	—	S&E
Business	—	MBA	BUS
Business, General	BBA	—	BUS
Chemistry	BS	—	S&E
Coastal and Marine System Science	—	PhD	S&E
Communication	BA	MA	LA
Computer Science	BS	MS	S&E
Counseling	—	MS	EDU
Counselor Education	—	PhD	EDU
Criminal Justice	BS	—	LA
Curriculum and Instruction	—	MS, PhD	EDU
Early Childhood Education	—	MS	EDU
Economics	BA	—	LA
	BBA	—	BUS
Educational Administration	—	MS	EDU

Educational Leadership	—	EdD	EDU
Educational Technology	—	MS	EDU
Electrical Engineering Technology	BS	—	S&E
Elementary Education	—	MS	EDU
English	BA	MA	LA
Environmental Science	BS	MS	S&E
Fisheries and Mariculture	—	MS	S&E
Finance	BBA	—	BUS
Geographic Information Science	BS	—	S&E
Geology	BS	—	S&E
Geospatial Surveying Engineering	—	MS	S&E
Health Sciences	BSHS	—	N&HS
History	BA	MA	LA
Interdisciplinary Studies (Teacher Education)	BSIS	—	EDU
Kinesiology	BS	MS	EDU
Management	BBA	—	BUS
Management Information Systems	BBA	—	BUS
Marine Biology	—	MS, PhD	S&E
Marketing	BBA	—	BUS
Mathematics	BS	MS	S&E
Mechanical Engineering	BS	—	S&E
Mechanical Engineering Technology	BS	—	S&E
Music	BA, BM	—	LA
Nursing	BSN	MSN	N&HS
Occupational Training and Development	BS	—	EDU
Philosophy	BA	—	LA

Physics	BS		S&E
Political Science	BA	—	LA
Psychology	BA	MA	LA
Public Administration	—	MPA	LA
Reading	—	MS	EDU
Secondary Education	—	MS	EDU
Sociology	BA	—	LA
Spanish	BA	—	LA
Special Education	—	MS	EDU
Theatre	BA	—	LA

Pre-Professional Programs

Program	**College***
Pre-law	LA
Pre-dental, pre-medical, pre-optometry, pre-veterinary medicine	S&E

These programs are available through a selection of appropriate courses taken for a designated major within the college. A faculty advisor appointed by the college assists in selection of major study and degree plan specialization courses.

*College Abbreviations:

Business: BUS

Education: EDU

Liberal Arts: LA

Nursing and Health Sciences: N&HS

Science and Engineering: S&E

Graduate and Postbaccalaureate Certificates

Clinical Laboratory Science

Geomatics

Geographic Information Systems

Health Care Administration

Homeland Security

Teacher Certification

Teacher Certification is available through the College of Education. Teaching specializations accompanying certification are available through the College of Liberal Arts, College of Education, and College of Science and Engineering.

Certification	Related Undergraduate Major	College
Early Childhood (EC) to Grade 6		
Generalist with Early Childhood Specialization	Interdisciplinary Studies	EDU
Generalist with Reading Specialization	Interdisciplinary Studies	EDU
Bilingual Generalist	Interdisciplinary Studies	EDU
Grades 4–8		
English Language Arts and Reading	English	LA
Mathematics	Interdisciplinary Studies	EDU
Science	Environmental Science	S&E
Social Studies	History	LA
Grades 8–12		
Computer Science	Computer Science	S&E
English Language Arts and Reading	English	LA
Health Science Technology Education	Occupational Training and Development	EDU
History	History	LA

Life Science	Biology	S&E
Mathematics	Mathematics	S&E
Physical Science	Chemistry	S&E
Social Studies	History	LA
Speech	Communication	LA
Trade and Industrial Education	Occupational Training and Development	EDU

Early Childhood (EC) to Grade 12

Art	Art	LA
Music	Music	LA
Physical Education	Kinesiology	EDU
Spanish	Spanish	LA
Special Education	Interdisciplinary Studies	EDU
Theatre	Theatre	LA

Professional Certifications

See the Graduate Catalog for a list of graduate-level, professional certifications available through the College of Education.

Admissions

Texas A&M University-Corpus Christi considers itself to be an advocate of opportunity, particularly for those persons residing in the South Texas Region. Accordingly, the admission standards and policies of the University have been designed to identify students who show potential for academic success.

Undergraduate Admission

There are eight categories of undergraduate admission to the University:

1. Regular Freshman Admission (Regular First-Year Admission)
2. Alternative Freshman Admission (Alternative First-Year Admission)

3. Transfer Student Admission
4. Transient Admission
5. International Student Admission
6. Postbaccalaureate Admission
7. High School Senior Concurrent Enrollment Program
8. Readmission

These categories and their associated requirements are described below.

Applications to Texas A&M University-Corpus Christi through any of the eight admission categories will be processed only after all required documentation and fees have been received. An application is considered to be complete only when the Office of Admissions has received all required documentation, including completed application forms, required test scores, and any other information or fees specifically required. Incomplete applications will not be processed.

Completed applications are processed as they are received, and applicants are usually informed of their admission status within three to four weeks.

Application materials and information concerning all aspects of the admissions process may be obtained directly from:

Office of Admissions

Texas A&M University-Corpus Christi

6300 Ocean Drive, Unit 5774

Corpus Christi, TX 78412-5774

Telephone: (361) 825-7024

Prospective students are strongly urged to apply early.

Application Fee

Applicants applying or reapplying to Texas A&M University-Corpus Christi are required to pay a non-refundable application fee of $40. The fee may be waived only in exceptional cases for applicants with hardships. An applicant in such circumstances should request his or her high school counselor, financial aid officer, or social worker to submit a letter verifying the need for a waiver with the application for admission. Applications submitted after the published deadline for the intended semester of enrollment will be assessed an additional $10 late application fee.

Applicants who are not U.S. citizens are considered through International Admission. For international applicants, the nonrefundable application fee is $75.00, paid in U.S. currency. Applications submitted after the published deadline for the intended semester of enrollment will be assessed an additional $10 late application fee.

Freshman Admission Procedure

Application and Transcript Submission

A student may apply for admission by completing the ApplyTexas Application (for U.S. Freshman Admission) online at www.applytexas.org or www.tamucc.edu. If preferred, an applicant may request a paper copy of the application form from the Office of Admissions. Upon completion of the application form, an applicant should submit the form and the appropriate application fee to Texas A&M University-Corpus Christi. The student must request his or her registrar to (1) send an official final

transcript indicating grades through the applicant's junior year and his or her class rank and (2) confirm the courses that will be completed through the senior year. Any student who has already graduated from high school at the time of application must furnish an official transcript, which includes the date of graduation, class rank and grades for all courses taken. To be considered official, a transcript must bear an original signature of a school official and/or the school seal. Applicants should submit the application, transcript, application fee, and any supporting credentials directly to the Office of Admissions.

Testing

Applicants must take either the Scholastic Assessment Test (SAT) or American College Test (ACT). Students are encouraged to take the SAT or the ACT during the spring of their junior year in high school. However, scores from tests taken later are acceptable if submitted by the freshman admission deadlines.

The SAT and ACT are offered at conveniently located testing centers throughout the United States and in major cities in many foreign countries. Testing dates, locations, and fees required are described in the information bulletin, which may be obtained from the student's high school or by writing the College Board ATP, P.O. Box 6200, Princeton, NJ 08541-6200, or the American College Testing Corporation, ACT Registration, P.O. Box 414, Iowa City, IA 52243-4198.

When registering, designate that the results be sent to Texas A&M University-Corpus Christi by the testing agencies. Test scores may also be submitted on the official high school transcript. Test scores are not official and will not be accepted unless furnished in these manners. For Texas A&M University-Corpus Christi, the SAT code is 0366 and the ACT code is 4045.

State of Texas Uniformed Admissions Policy

Texas Education Code (TEC) 51.803 – 51.809 requires all first-time freshmen seeking admission at a public four-year institution in Texas to satisfy one of the following college readiness standards in order to be eligible to be considered for admission.

· Successfully complete the Recommended or Advanced/Distinguished high school programs or a pre-college high school curriculum equivalent in content and rigor; or

· Satisfy ACT College Readiness Benchmarks (English- 18, Reading- 21, Mathematics- 22, and Science- 24); or

· Earn at least a 1500 out of 2400 SAT assessment score (Verbal + Math + Writing) or the equivalent

1. Regular Freshman Admission

Freshman applicants are those citizens or permanent residents of the United States who have not been enrolled in any college-level institution except while still in high school or during the summer immediately following high school graduation and before enrolling in Texas A&M University-Corpus Christi for the subsequent fall. Freshman applicants are also called "first-year" applicants.

The best predictors of academic success have been a combination of high school class rank and standardized test scores. A student's high school class rank results from ongoing opportunities to demonstrate capabilities in familiar situations, whereas standardized tests use objective measures for gauging academic potential. Regular Freshman Admission is based upon the combination of these two factors.

Applications are reviewed to ensure that applicants present the basic academic preparation required to pursue study at this University. Students who seek admission into Texas A&M University-Corpus Christi must successfully complete the Recommended High School Program, the Distinguished Achievement Program, the Texas Scholars Program, or another pre-college curriculum that is equivalent in content and rigor to fulfill the academic preparation requirement.

The units of study and acceptable high school courses are:

English	4 Credits;
Laboratory Science	4 Credits, at least 1 of which must be in Biology, Chemistry, or Physics;
Mathematics	4 Credits at the level of Algebra I or higher, which may include Plane Geometry;
Social Studies	4 Credits, which includes a 1/2 credit of Economics;
Foreign Language	2 Credits in one foreign language or American Sign Language.

While not required for admission, a high school course in computing may provide the skills needed to fulfill the University's computer literacy requirement.

Students who have graduated in the top 10% of their high school classes and who successfully complete the required pre-college curriculum are admitted without minimum SAT or ACT score requirements. Such students, however, are required to submit official scores on either the SAT or ACT to the Office of Admissions. Students who have graduated in the top 10% who have not successfully completed a required pre-college curriculum or an equivalent are required to satisfy the automatic admissions standards outlined in Texas Education Code 51.000, including earning a minimum SAT assessment score of 1500 out of 2400 or the ACT composite score of a 21 or satisfy ACT's College Readiness Benchmarks on the ACT assessment.

The following requirements linking high school class standing and minimum SAT/ACT scores will apply:

Class Standing	Required SAT Score	ACT Composite
Top 10%	No minimum	No minimum
Next 15%	900 or above	19
2nd Quarter	1,000 or above	21
3rd Quarter	1,100 or above	23
4th Quarter	1,200 or above	27

Holders of GED diplomas who seek Regular Freshman Admission are subject to a similar scale of GED score relative to the SAT or ACT score as shown below:

GED Score	SAT Total/Verbal	ACT Composite/English
> 58	900/480	19/19
51 - 57	1,000/480	22/19
45 - 50	1,100/480	23/19

Freshman Admission Priority Application Dates

To ensure full consideration, the ApplyTexas Application, application fee, required transcripts, and any supporting documentation must be in the Office of Admissions by the following priority dates:

Fall Semester - March 1

Spring Semester - November 1

Summer Session - April 1

Completed applications received after the deadline date but before the beginning of regular registration will be processed as received.

2. Alternative Admission for Freshman

Those students who do not meet regular admission requirements may be considered under the Alternative Admission Procedure. The Undergraduate Admissions Committee will review applications for consideration under the Alternative Admission Procedure. In addition to reviewing the student's class rank, standardized test scores, and high school courses, the committee will consider other factors such as participation in extracurricular activities, including evidence of leadership; community service; talents and awards; extenuating circumstances; and employment, internships, and summer activities.

Applicants for Alternative Admission must have an official SAT or ACT score on file with the University. The applications considered under the Alternative Admission Procedure will be on a case-by-case basis. Students admitted under Alternative Admission may be subject to specific enrollment conditions established by the Undergraduate Admissions Committee based on the applicant's individual circumstances. These conditions may include enrolling in prescribed developmental course work, participating in tutoring sessions and other academic support activities, and meeting other conditions designed to promote academic success. The decision of the Undergraduate Admissions Committee is final. Subsequent admission reviews will be conducted on a case-by-case basis contingent on the submission of new academic credentials that demonstrate the student's admissibility into the University.

Exceptional Talent Policy

Admission based upon exceptional talent provides an important pathway to higher education for students who do not meet regular admissions criteria but who have outstanding abilities and/or experience. Accordingly, a select group of applicants may be considered for admission because they possess exceptional talents that are important to the intellectual vitality, prestige, and diversity of the university community. Areas identified for consideration under exceptional talent admissions include outstanding achievement in intellectual or creative endeavors including the visual and performing arts, communications, athletics, and other experiences that demonstrate unusual promise for leadership.

To determine eligibility, a student must document for the Undergraduate Admissions Committee his or her talent through an audition, portfolio, videotape, or written evidence of exceptional performance. Three written recommendations from individuals who are knowledgeable about the student's performance in his or her talent area are required. In the final selection of these students, the Undergraduate Admissions Committee must also take into consideration the academic record of each applicant to determine his or her potential to graduate in a timely manner and to complete successfully his or her academic career. Applications considered under the Exceptional Talent Policy will be done on a case-by-case basis. Students admitted to the University by way of their exceptional talent may be required to take additional leveling courses at the request of the Undergraduate Admissions Committee.

Enrollment Management will monitor the number students admitted under the provisions of this policy and will include this information as part of an annual report to the Faculty Senate and the Provost.

Scholastic Probationary Admission For First-Time Non-Traditional Freshman

Those first-time freshmen who have been out of high school for five years or more and who do not meet the regular academic admissions criteria may be considered for "Probationary Admission" status. If the Undergraduate Admissions Committee admits a student on probationary status, the following conditions will apply:

While on probationary status, the student must remain part-time, taking no more than two courses each semester. The student's progress will be monitored at the end of each term. To continue to enroll each semester while on probationary status, the student must maintain a term GPA of 2.0 or better and must not receive a grade of D or F in any remedial course attempted.

The courses the student will attempt while on probationary status will be determined by A&M-Corpus Christi placement results, THEA scores (or scores on an accepted alternative test), and the recommendation of the assigned academic advisor. All course work while a student is on probationary status will be chosen from remedial offerings and the core curriculum. After the student completes 12 semester credit hours of non-remedial course work with a GPA of 2.0 or better, without earning a grade of D or F in any remedial course attempted, the student will become a regularly admitted student, with all the rights and responsibilities of that status.

3. Transfer Admission

The University was an upper-division transfer institution for more than twenty years. During that time, the institution earned a reputation for working effectively with transfer students. It is the aim of Texas A&M University-Corpus Christi to maintain that transfer-friendly reputation. Students who have earned 30 or more transferable semester hours of credit and who wish to transfer to the University must have a minimum cumulative grade point average (GPA) of 2.0 on a 4.0 scale. Those students who wish to transfer with fewer than 30 transferable hours of credit must have minimum cumulative of 2.0 on a 4.0 scale and must also satisfy the regular freshman entry requirements. A transfer applicant may not disregard his or her college record and apply for admission as a freshman. The following additional rules also apply:

1. The applicant must provide official copies of transcripts from each college or university attended. To be considered official, the transcript must bear the seal of the granting institution and must be mailed to Texas A&M University-Corpus Christi by the granting institution.
2. No remedial or duplicate credits may be transferred.
3. The applicant must be eligible to return to his or her previous institution.
4. The cumulative GPA includes all work attempted, excluding remedial, high school, or duplicate courses.
5. Repeated courses are calculated within the GPA according to the standards and rules of the granting institution. When multiple institutions of higher education have been attended, Texas A&M University-Corpus Christi will use the highest repeated course grade in the grade point calculation.

Transfer Provisional Admission

Transfer students who do not meet regular admission requirements may be considered under the Provisional Admission Procedure. The Undergraduate Admissions Committee will review applicants for consideration under the Provisional Admission Procedure.

Applications for provisional admission must have copies of all required documentation on file with the University. Consideration of applicants under the Provisional Admission Procedure will be on a case-by-case basis. Students approved under the Provisional Admission Procedure will enter the University on academic probation and may be subject to additional provisions established by the Undergraduate Admissions Committee.

Transfer Admission Priority Application Dates

To ensure full consideration, the completed ApplyTexas Application (for U.S. Transfer Admission) and all required documents and supporting material must be on file in the Office of Admissions by the following priority dates:

Fall Semester - August 15

Spring Semester - December 15

Summer Session - May 15

4. Transient Admission

Students who are pursuing a degree at another college or university may be admitted as transient students if they provide proof of enrollment in good standing at their home college or university. Such students must complete an ApplyTexas Application (for Transient Admission) and submit an official transcript from their current institution of enrollment. Enrollment as a transient student is restricted to the summers or one long semester. Summer transient students must reapply each summer that enrollment is sought. Students admitted as transient students who later wish to pursue a degree at this University may do so by completing the regular admission process and meeting all admission requirements. (International students cannot be admitted as transient students.)

5. International Admission

International students (non-U.S. citizens) with outstanding academic records will be considered for admission. International students who seek admission to Texas A&M University-Corpus Christi must meet the following requirements:

1. Application Form and Fee: A completed ApplyTexas Application (for either International Freshman Admission or International Transfer Admission) and a $75 application fee are required.
2. Testing: Prospective students from other countries must demonstrate the ability to speak, write and understand the English language. Prospective students whose native language is not English must take the Test of English as a Foreign Language (TOEFL) examination or the International English Language Testing System (IELTS) examination unless they have already earned a bachelor's degree from an accredited institution in the United States or Canada, or successfully completed two years of instruction (taught in the English language) at a United States or Canadian high school or college, has obtained an SAT Critical Reading Score of 600 or higher or an ACT English Subscore of 27, or can provide compelling evidence of English proficiency to the Office of Admissions. A minimum score of 550 on the TOEFL paper examination, 79-80 on the TOEFL internet examination, or 213 on the TOEFL computer examination, or a 6.5 or higher on the IELTS examination is required for admission to the University. The TOEFL is administered by the Educational Testing Service in over 200 centers around the world. A registration form and a "Bulletin of Information for Candidates" may be obtained by writing to TOEFL Registration Office, P.O. Box 6151, Princeton, New Jersey 08541-6151, USA. Applicants from the following countries will be exempt from the TOEFL or IELTS requirements:

   Antigua and Barbuda
   Australia
   Bahamas
   Barbados
   Belize

   Botswana*
   Canada (all provinces except Quebec)

Fiji*
The Gambia*

Ghana*
Grenada

Guyana
Ireland
Jamaica

Kiribati
Liberia

Malta*

Marshall Islands

Mauritania

Mauritius

Micronesia
New Zealand

Nigeria

Saint Kitts and Nevis

Saint Lucia

Saint Vincent and the Grenadines
Sierra Leone *

Solomon Islands
Trinidad and Tabago

Uganda
United Kingdom
Zambia*

Zimbabwe*

*countries with astericks are subject to review

Freshman international applicants must have their test scores for either the Scholastic Assessment Tests (SAT) or the American College Test (ACT) submitted to the Office of Admissions.

3. Transcripts: The University requires all transcripts from international high schools, colleges and universities to be evaluated by a certified evaluation agency approved by the Director of Admissions and require the evaluation report to be submitted by the agency to the Office of Admissions. A list of approved evaluation agencies may be obtained at the following website: http://admissions.tamucc.edu/international
4. Grade Point Average (GPA): A cumulative GPA of 2.5 for all work attempted at other U.S. colleges or universities are required.
5. Finances: The U.S. Citizenship and Immigration Services (USCIS) and Texas A&M University-Corpus Christi require all international applicants to provide an "Affidavit of Support" form certifying ability to finance study in the U.S. The Affidavit of Support must be completed with U.S. currency figures only.
6. Immunizations and Related Requirements: International students are required to have a tuberculin skin test or chest x-ray and must meet the immunization requirements discussed later in this chapter.

7. Health Insurance: All international students (students who are not citizens or permanent residents of the United States) are required to be covered by the Texas A&M University System's student health insurance plan or to show proof of an equivalent insurance coverage. Students without insurance will not be permitted to register for classes. For information, contact the Coordinator, International Student Services.

International students should contact the Office of Admissions for further information on admission requirements for international students.

The admission application review will not begin until all required documents are received by the Office of Admissions.

An international student must be enrolled for a minimum of 12 semester hours during both the spring and fall semesters. An international student may not be admitted in undergraduate transient (visiting) or non-degree status. An international student sponsored by a program in a regionally accredited college or university may be admitted with the approval of the Office of Admissions.

International Admission Priority Application Dates

The completed ApplyTexas Application for admission of international students and all required documents and supporting material must be on file by the following priority dates:

Fall Semester - May 1

Spring Semester - September 1

Summer Session - February 1

International Student Advising

The Coordinator, International Student Services, located in the Office of International Education, oversees all academic and U.S. Citizenship and Immigration Services (USCIS) requirements of F-1 students attending A&M-Corpus Christi. International students are required to report to the Coordinator, International Student Services at the beginning of each semester to maintain accurate status and essential information. The Coordinator, International Student Services helps students with forms and paperwork required for optional and curricular practical training, changes on I-20 form, change of status, reinstatement, and medical insurance requirements.

For additional information regarding international students, contact the Coordinator, International Student Services in the Office of International Education at (361) 825-2258.

English as a Second Language International (ESLI)

The ESLI University Language Center, a privately owned and operated program located on the campus of Texas A&M University-Corpus Christi, provides students intensive English training in preparation for entrance to the University. Students may enroll and begin study in ESLI courses at any time during the fall, spring, or summer terms. Tuition and fees for ESLI programs may differ from Texas A&M University-Corpus Christi tuition and fees.

The ESLI program is intensive with 25 hours of instruction each week in reading, writing, speaking, listening, grammar, and intensive skills with a focus on pronunciation, vocabulary, note-taking, and test-taking. Students have the opportunity to participate in the academic, social and cultural life of the campus.

For further information and application packets, prospective students should contact ESLI at (360) 724-0547 or by email at esli@esli-intl.com or visit the web site at www.esli-intl.com.

6. Postbaccalaureate Admission

A student holding a baccalaureate or higher degree who intends to seek an additional bachelor's degree or an additional undergraduate major or minor, or who intends to take undergraduate course work required for Texas public school teacher certification, should seek admission as **postbaccalaureate student**. Postbaccalaureate students may enroll in undergraduate-level courses (numbered below 5000) only. The following documents are required as part of the application process:

1. A completed ApplyTexas Application form.
2. A $40 application fee, which is nonrefundable.
3. Official transcripts documenting all course work taken at any regionally accredited college or university attended and the degree awarded at the completion of all coursework. Official transcripts must be sent directly to Texas A&M University-Corpus Christi from the granting institutions.

7. High School Senior Concurrent Enrollment

High school seniors who wish to enroll in the University during the fall and/or spring semester of their last high school year may do so if they meet the following admission requirements:

1. Rank in the top 10% of their class, or have a composite score of 25 on ACT or combined score of 1140 on SAT (considering verbal and math components only);
2. Are completing a college preparatory high school curriculum;
3. Have completed an approved Texas Success Initiative (TSI) assessment (passing scores on all sections of the THEA or alternative exam), or hold a TSI exemption based on ACT, SAT, or TAKS scores;
4. Present a letter of recommendation from the high school principal; and
5. Are approved by the Director of Admissions.

High school seniors admitted under this program may enroll in a maximum of one class per semester and must be advised by the Islander Transition Center. The Director of Admissions may make exceptions and permit a student to take more than one class. Factors for such exceptions include academic preparation as demonstrated by the student's rank in class, the program of study taken in high school, the number of courses needed to complete high school requirements, and scores on the ACT or SAT.

All students admitted into the High School Senior Concurrent Enrollment Program are subject to all Texas A&M University-Corpus Christi, Texas A&M University System, State of Texas, and federal rules and regulations applicable to degree-seeking students.

Students admitted under this program who wish to continue in the summer or fall semester must reapply for admission.

8. Readmissions

Students who have a previous enrollment history with Texas A&M University-Corpus Christi but have not been enrolled for one (1) or more years are required to complete a new ApplyTexas Application. Re-enrollees who have not been enrolled in any postsecondary institution prior to the term for which they are applying and are in good academic standing with the University are eligible for admission. Students who wish to re-enroll but have less than a 2.0 cumulative grade point average may be offered probationary admissions.

Students who have enrolled at another institution prior to their return to the University are required to submit official transcripts from all postsecondary institutions attended since leaving A&M-Corpus Christi and must satisfy transfer admission requirements.

Texas Success Initiative (TSI)

The Texas Success Initiative is a state-legislated program that requires students to be assessed in reading, writing, and math skills prior to enrolling in a Texas public institution and to be advised based on that assessment. The Texas Higher Education Coordinating Board (THECB) has approved the ASSET, COMPASS, ACCUPLACER and the THEA as acceptable assessment instruments for entering students. Texas A&M University-Corpus Christi administers only the THEA and COMPASS, but accepts scores from any of the alternative assessments. The assessment or the results of the assessment are not a condition of admission, but a condition of registration to an institution. For the submission of THEA scores, the institution code for Texas A&M University-Corpus Christi is 143.

If a student's score on any section of an assessment is below passing, the student must enroll in appropriate developmental classes. Placement and participation in developmental education is determined on an individual basis for students by the Center for Academic Student Achievement. Students may contact an Intervention Specialist at 361-825-2977 or go by their office in the Glasscock Student Success Center. Students may re-test to meet the TSI standard. Institutions may consider the performance in developmental education, in college-level courses, and on an assessment instrument in determining college readiness. If a student does not participate in the specified courses or program prior to completing all TSI requirements, the student may be dropped from the University. The hours of the required developmental courses will count toward determining full-time status.

If the student fails one or more portions of an assessment and has 60 or more cumulative college level hours in the current semester, the student may not be permitted to enroll in any senior level courses (4000 level) until he or she passes the developmental program.

A student is exempt from the TSI if any of the following applies:

- The student has an associate or baccalaureate degree from an accredited college or university.
- The student, on a single test administration, has an SAT composite score of 1070 with at least 500 on the Verbal (Critical Reading) and Math sections.*
- The student, on a single test administration, has an ACT composite score of 23 with at least 19 on the Math and English sections.*
- The student has an exit-level TAKS score of 2200 on the Math and a 2200 on the English Language Arts section with a 3 on the Writing subscore.*
- The student was honorably discharged, retired, or released from active duty as a member of the Armed Forces of the U. S. or the Texas National Guard, or served as a member of a reserve component of the Armed Forces on or after August 1, 1990.
- The student has met the readiness standard at another Texas public higher education institution.
- The student transferred from an accredited Texas private institution of higher education or an accredited out-of-state institution with acceptable college-level course work determined by the receiving institution. Texas A&M University-Corpus Christi has elected to use the following course work with the designated letter grade to meet the following standards:

    1. Math readiness standard – College Algebra [MATH 1314] or higher with a grade of C or better,
    2. A three-credit hour course in history, political science/government, economics, philosophy, or literature with a grade of B or better,
    3. Writing readiness standard – Composition I [ENGL 1301] or Composition II [ENGL 1302] with a grade of C or better.

A student qualifies for a waiver from the TSI if one of the following applies:

- The student is serving on active duty in the Armed Forces of the U. S., Texas National Guard, or Reserve Component of Armed Forces and has been serving for at least three years preceding enrollment.
- The institution has elected to waive the TSI requirement for non-degree seeking students. (The student must complete a TSI waiver contract). At the point a student becomes degree-seeking, TSI standards must be met by the student.

*SAT and ACT scores are valid five years from the date of testing to the first day of enrollment in an accredited Texas public institution of higher education. TAKS scores are valid for three years. After April 1, 2004, students holding the composite score on the SAT/ACT may be exempt from a portion of the TSI approved examination in the individual area in which they met the required score. Partial exemptions also exist for TAKS scores. Students must have both the required reading and writing TAKS score to be partially exempt from the reading and writing portion of an assessment.

For additional information, contact the Center for Academic Student Achievement at (361) 825-5933 or the Academic Testing Center at (361) 825-2334.

Academic Fresh Start Legislation

The "Right to an Academic Fresh Start" legislation, passed by the 73rd Texas Legislature, entitles residents of this state to seek admission to public institutions of higher education as undergraduate students without consideration of courses undertaken ten or more years prior to enrollment. This law 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 intent of the "Fresh Start" legislation is to provide students with an opportunity to clear their academic records, if they choose to do so, of all college-level work accumulated ten or more years ago. Students may not pick and choose what is to be ignored and what is not. Either all college hours ten or more years old are ignored or they are counted. Applicants interested in seeking a "Fresh Start" should contact the Office of Admissions.

Immunization and Related Requirements

Recommended Vaccinations

Students are encouraged to submit immunization records voluntarily in order to assure the availability of a more complete medical record while a student at Texas A&M-Corpus Christi. Student Health Services strongly recommends that every student, and their family members, review our updated list of immunizations most appropriate for university students. This list of recommended vaccines was compiled by the American College Health Association (ACHA) with assistance from the Advisory Committee on Immunization Practices (ACIP) of the Centers for Disease Control and Prevention (CDC). See Recommended Immunizations.

TAMU-CC Tuberculosis Policy Requirements

TAMU-CC policy requires tuberculosis (TB) screening for newly admitted international students from countries where there is a high incidence of tuberculosis (as designated by the World Health Organization). Students with identifiable risk factors for exposure to TB, or for the TB disease, need to be tested and treated as necessary, to be allowed to register for second semester classes. Detailed information about screening and treatment for tuberculosis can be found at the following website: http://www.cdc.gov/tb/.

Students will be required to provide proof of compliance to TAMU-CC Health Center before students are allowed to register for second semester.

Bacterial Meningitis Vaccination Policy

In accordance with Texas Senate Bill 1107 (amended by SB 62, effective October 1, 2013), Texas A&M University-Corpus Christi will require all new students under the age of 22 to provide certified proof from a health practitioner that they have received a valid bacterial meningitis vaccination or booster within the last five years. Students must submit their proof of vaccination or a booster at least 10 days prior to the first day of class for the intended term of enrollment.

A new entering student includes a first-time student of an institution of higher education or private or independent institution of higher education and includes a transfer student, or a student who previously attended an institution of higher education before January 1, 2012, and who is enrolling in the same or another institution of higher education following a break in enrollment of at least one fall or spring semester.

Students are strongly encouraged to obtain the bacterial meningitis vaccination before entering the United States or moving to the Corpus Christi area. A list of U.S. **approved meningococcal vaccines** is available: English , Español

Important Facts about Bacterial Meningitis

Students who fail to submit certified proof of vaccination or a valid booster within the required timeframe will be unable to register for their intended term. Please note, vaccinations older than 5 years will require a booster and all bacterial meningitis vaccinations and boosters must be administered by a health practitioner authorized by law to administer an immunization.

Valid Proof of Vaccination

1. A complete Evidence of Vaccination against Bacterial Meningitis Form. Use this form if you plan to obtain your vaccination somewhere other than your personal physician's office.
2. A document bearing the signature or stamp of the physician or his/her designee, or public health personnel (must include the month, day, and year the vaccination was administered).
3. An official immunization record generated from a state or local health authority (must include the month, day, and year the vaccination was administered).
4. An official record received from school officials, including a record from another state (must include the month, day, and year the vaccination was administered).

Valid Proof of Vaccination Exemption

1. An affidavit or a certificate signed by a physician who is duly registered and licensed to practice medicine in the United States, in which it is stated that, in the physician's opinion, the vaccination required would be injurious to the health and well-being of the student.
2. **Conscientious Objection Form:** An affidavit signed by the student stating that the student declines the vaccination for bacterial meningitis for reasons of conscience, including a religious belief. A conscientious exemption form from the Texas Department of State Health Services (TDSHS) must be used and can be downloaded from the following link: TEXAS DEPARTMENT OF STATE HEALTH SERVICES FORM. Please complete the instructions provided on the conscience exemption form. **Please allow several weeks for delivery.**

Other Vaccination Exemptions

A student is not required to submit evidence of receiving the vaccination against bacterial meningitis, or a booster dose, if:

1. The student is 22 years of age or older by the first day of the start of the semester; or
2. The student is enrolled only in online or other distance education courses; or
3. The student is enrolled in a continuing education course or program that is less than 360 contact hours, or continuing education corporate training; or
4. The student is enrolled in a dual credit course which is taught at a public or private K-12 facility not located on a higher education institution campus; or
5. The student is incarcerated in a Texas prison.

Students are encouraged to visit their primary care provider prior to enrollment. The cost of the bacterial meningitis vaccination may be cheaper in a student's home country or through the student's primary care provider. Students may also obtain the Meningitis vaccination or booster from their local County Public Health Department or other local pharmacies.

For medical questions concerning the meningitis vaccination or booster, students may contact the University Health Center Nurse Line at 361.825.5735. For questions regarding document submission and approval, students should contact the Office of Recruitment and Admissions at 361.825.2624.

All new students must receive the bacterial meningitis vaccination at least 10 days prior to the start of the intended term of enrollment.

How to Submit Evidence of Vaccination or an Affidavit to Decline Vaccination

All documents pertaining to compliance with the bacterial meningitis vaccination policy should be mailed, faxed, emailed, or hand-delivered to Texas A&M University-Corpus Christi Office of Recruitment and Admissions. Applicants who wish to fax their documentation are asked to use the Office of Recruitment and Admissions Fax Cover Sheet.

- **Mailing Address:**
  Texas A&M University-Corpus Christi
  Office of Recruitment and Admissions
  6300 Ocean Drive, Unit 5774
  Corpus Christi, TX 78412-5774

  Phone: 361.825.2624 or 1.800.4.TAMUCC

- **Fax:** 361.825.5887, Fax Cover Sheet
- **E-mail:** admiss@tamucc.edu (Please type *Meningitis Vaccination* in the Subject Line)
- **Hand-Delivered:** Student Services Center, Office of Recruitment and Admissions, Customer Service Kiosk

Student Services Center Hours of Operation:
Monday – Friday (8 a.m. to 5 p.m. CST)

Graduate Admission

For information on graduate admission requirements, see the Graduate Catalog.

General Academic Policies and Regulations

Student Responsibility

University personnel may assist students in progressing toward the degree that they are seeking. However, the final and ultimate responsibility for understanding and following the degree requirements rests with the students themselves. Each student is held responsible for knowing degree requirements, for enrolling in courses that fit into degree programs, and for taking courses in the proper sequence to ensure orderly progression of work. The student must seek advice about degree requirements and other University policies when necessary. The student is held responsible for knowing and abiding by University regulations regarding the standard of work required to continue in the University, as well as those dealing with academic integrity, scholastic probation, suspension, and dismissal. Additionally, the student is expected to comply with the rules in the Student Handbook and Student Code of Conduct, as well as the processes in the latter, which are administered by the Office of Student Affairs. The Student Handbook and Student Code of Conduct are accessible at http://www.tamucc.edu/~students.

Transfer Credit Policies

General Regulations

Texas A&M University-Corpus Christi will consider for credit collegiate level work from regionally accredited institutions. However, work completed while an institution is a candidate for accreditation may also be considered. Course work transferred or accepted for credit toward an undergraduate or graduate degree must represent collegiate course work relevant to that degree, with course content and level of instruction resulting in student competencies at least equivalent to those of students enrolled in the relevant degree programs at Texas A&M University-Corpus Christi. College-level work posted on a sending institution's transcript as the result of the College Level Examination Program (CLEP) and other credit-by-examination programs will be treated as transfer work. Remedial, high school, or duplicate work will not be transferred to the University. Acceptability of credit for transfer does not imply that it is applicable to the requirements of a particular degree program.

The student must provide official copies of transcripts from each institution attended. The records facility of the granting institution must mail such transcripts directly to the University. Hand carried documents will not be accepted for evaluation. Upon receipt, the documents become the property of the University and will not be yielded back to the student as originals.

All transferred work (with accompanying grades or marks) will be translated into Texas A&M University-Corpus Christi terms. If an equivalency for an undergraduate course has not already been established, the Office of Recruitment and Admissions will consult with the department that represents the course content to determine the course equivalency. If the content and level renders an equivalency impossible, the work will be given a generic title and number. Should the Executive Director of Recruitment and Admissions determine that a student has taken courses of similar level and content at more than one institution (duplicated work), the highest grade of the course attempted will be the grade of record, and all others will be recorded without credit. Transfer work will become a part of the student's record only after matriculation and then only when the student has established a course-of-record.

The Office of Recruitment and Admissions is responsible for the evaluation of undergraduate transfer credit. The Office of Recruitment and Admissions will hear appeals of those decisions.

No more than 45 semester hours of undergraduate work may be transferred from military service and credit by examination. This limit applies to work completed prior to or after matriculation.

The holding of an associate's degree from another institution does not affect the transfer of credit or the transfer policies and practices of Texas A&M University-Corpus Christi.

Texas Common Course Numbering System

The University participates in the Texas Common Course Numbering System, a program developed to facilitate transfer of academic course work between Texas public junior and senior institutions. This system is used as the basis for numbering most lower-division courses on campus. A lower-division course with a common course number equivalent will generally use the common number. The catalog section on Lower-Division Transfer Courses lists A&M-Corpus Christi courses that appear to be equivalent to courses in the common course numbering system.

Resolution of Transfer Disputes for Lower-Division Courses

Public institutions of higher education in Texas use the following procedures in the resolution of credit transfer disputes involving lower-division courses, as required by the Texas Higher Education Coordinating Board:

1. If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and to the sending institution that transfer of the course credit is denied. A receiving institution shall also provide written notice of the reasons for denying credit for a particular course or set of courses at the request of the sending institution.
2. A student who receives notice as specified above may dispute the denial of credit by contacting a designated official at either the sending or the receiving institution. (The designated officer at Texas A&M University-Corpus Christi is the Director of Admissions.)
3. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Board rules and guidelines.

4. If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the institution that denies the course credit for transfer shall notify the Commissioner of its denial and the reasons for the denial.

The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.

The Board shall collect data on the types of transfer disputes that are reported and the disposition of each case that is considered by the Commissioner or the Commissioner's designee.

If a receiving institution has cause to believe that a course being presented by a student for transfer from another school is not of an acceptable level of quality, it should first contact the sending institution and attempt to resolve the problem. In the event that the two institutions are unable to come to a satisfactory resolution, the receiving institution may notify the Commissioner of Higher Education, who may investigate the course. If its quality is found to be unacceptable, the Board may discontinue funding for the course.

Military

Persons who have been granted honorable or general discharge from military service of the United States and who would like a review of service records for potential college credit must request the appropriate documentation. Depending on the type of military service, they should request one of the following transcripts:

1. **Navy/Marines:** A SMART (Sailor/Marine American Council on Education Registry Transcript) is available at no charge to all active duty Sailors and Marines, reserve component personnel, sailors who separated or retired after January 1975, and Marines who separated or retired after June 1999. A SMART transcript must be ordered from the SMART Operations Center or online at https://smart.navy.mil/

   For more information, contact the SMART Operations Center at (877) 253-7122. The mailing address for SMART Operations is:

   SMART Operations

   NETPDTC - N2, 6490 - Saufley Field Road

   Pensacola, FL 32509-5223

2. **Army:** An AARTS (Army/American Council on Education Registry Transcript System) transcript is available at no charge to those who are or have been enlisted with the Army, Army National Guard, or U.S. Army Reserve, or are officers/warrant officers. An AARTS transcript must be ordered directly from the AARTS Operations Center in Ft. Leavenworth, Kansas or online via the AARTS web site at: http://aarts.army.mil/.

   For more information, contact the AARTS Operation Center toll-free at (866) 297-4427. The mailing address is:

   AARTS Operations Center

   415 McPherson Avenue

   Ft. Leavenworth, KS 66027-1373.

3. **Air Force:** Most formal training completed by enlisted members of the Air Force is evaluated for credit by the Community College of the Air Force (CCAF). Students may obtain information on requesting CCAF transcripts by visiting the CCAF website at: http://www.maxwell.af.mil/au/ccaf/.
4. **Coast Guard:** To order a copy of the official U.S. Coast Guard transcript, log on to the Coast Guard web site at: http://www.uscg.mil/uscg.shtm

The American Council on Education guidelines will be used in the evaluation. Credit will be awarded only in areas offered within the current curriculum of the institution, and only when the course work is appropriately related to the student's

educational programs. The evaluation of military credit is utilized in awarding college credit only and is not considered in determining admission eligibility.

Foreign Institutions

Students who wish to transfer work from foreign institutions must present transcript copies rendered into standard English and certified as true copies by a translator approved by the Director of Admissions. Originals must also be provided. In cases where it is impossible, practically, to obtain official transcripts, alternatives to translated transcripts may be considered.

The University requires students transferring work from foreign institutions to provide an evaluation from a professional source. A list of acceptable companies is available from the Office of the Admissions website: admissions.tamucc.edu/international. The student will bear the cost of such service.

Credit by Examination

Texas A&M University-Corpus Christi recognizes the validity of accepting credit for specified levels of achievement on institutionally approved, standardized examinations. Examples include College Level Exam Program (CLEP), Advanced Placement (AP), DSST Program, American College Testing Proficiency Examination Program (ACT/PEP), and International Baccalaureate (IB) exams. Such work will be treated as transfer credit. The minimum scores acceptable for the different examinations are stated below. The testing agency must provide examination results (scores) directly to Texas A&M University-Corpus Christi.

A grade of CR (credit) will be assigned where applicable. This grade will not be computed in the student's grade point average, will not carry grade points, and cannot be translated into grades A, B, C, or D. The grade of CR will not replace any existing course grade earned at Texas A&M University-Corpus Christi. Credit earned by examination does not count toward the number of semester credit hours required for graduation with honors. For information regarding applicability of these tests to specific degree programs, students should contact an academic advisor.

CLEP Examinations

The table below shows CLEP exams that may be accepted for lower-division credit (unless otherwise specified), the minimum scores required, the equivalent A&M-Corpus Christi courses, and the number of semester credit hours that may be awarded for these exams.

CLEP has a policy that an exam of the same title may not be retaken in a three-month period. CLEP will not release scores for an examination of the same title taken within the 3-month period after the initial administration. If a candidate retakes the examination within the 3-month period, the administration will be considered invalid, the score will be canceled and fees will be forfeited. Candidates who are military service members and whose exams are funded by the Defense Activity for Non-Traditional Education Support (DANTES) may not repeat an examination of the same title; however, they may personally fund a retest after waiting the required period of time.

CLEP Exam	Minimum Score Required	A&M-Corpus Christi Course(s)	Credit Hours Awarded
Composition and Literature:			
American Literature* (essay required)	50	Satisfies the sophomore literature requirement	0/3
Analyzing and Interpreting Literature (essay required)*	50	Satisfies the sophomore literature requirement	0/3
College Composition	N/A	N/A	N/A

English Literature* (essay required)	50	Satisfies the sophomore literature requirement	0/3
College Composition with Modular (essay required)*	50	ENGL 1301, ENGL 1302	0/3/6
Humanities	50	Elective	3

Foreign Languages:

French	50	FREN 1311, & FREN 1312	6
	62	FREN 1311, FREN 1312, FREN 2311, & FREN 2312	12
German	50	GERM 1311 & GERM 1312	6
	62	GERM 1311, GERM 1312, GERM 2311, & GERM 2312	12
Spanish	50	SPAN 1311, & SPAN 1312	6
	66	SPAN 1311, SPAN 1312, SPAN 2311, & SPAN 2312	12

History & Social Sciences:

American Government	50	POLS 2305	3
Human Growth & Development	50	PSYC 2314	3
Intro to Educational Psychology	N/A	N/A	0
Principles of Macroeconomics	50	ECON 2301	3
Principles of Microeconomics	50	ECON 2302	3
Introductory Psychology	50	PSYC 2301	3
Introductory Sociology	50	SOCI 1301	3
Social Sciences and History	50	Elective	3
U.S. History I: Early Colonizations to 1877	52	HIST 1301	3
U.S. History II: 1865 to the Present	52	HIST 1302	3

Western Civilization I : Ancient Near East to 1648	52	HIST 2311	3
Western Civilization II: 1648 to Present	52	HIST 2312	3

Science and Mathematics:

Calculus	50	MATH 2413	4
College Algebra	50	MATH 1314	3
College Mathematics	50	Elective	3
General Biology	50	Elective	3
General Chemistry	50	CHEM 1411, CHEM 1412	6
Natural Sciences	50	Elective	3
Precalculus	50	MATH 2312	3

Business:

Information Systems	50	Elective	3
Introductory Business Law	50	BLAW 3310	3
Financial Accounting	50	ACCT 2301	3
Principles of Management	50***	Elective Credit	3
Principles of Marketing	50	MKTG 3310	3

This table is subject to change. For the latest information on CLEP exams, including information on additional CLEP exams for which credit may be accepted, contact the Office of the University Registrar.

*When a student earns this score, or better, faculty members of the Department of English will review the essay portion of the exam. The chair of the Department of English will determine whether or not to award credit in each case. For the American Literature exam, the department may award credit for either ENGL 2333. For the English Literature exam, the department may award credit for ENGL 2332, ENGL 2333, or . For the Analyzing and Interpreting Literature exam, the department may award credit for one of the following: ENGL 2332 or ENGL 2333. For the College Composition with Modular exam, the department may award credit for ENGL 1301, or for both ENGL 1301 and ENGL 1302.

***Refer to the Graduate Program Director in the College of Business for restrictions on credit for graduate programs.

Advanced Placement Examinations

The list below indicates which Advanced Placement (AP) exams will be accepted as equivalent to A&M-Corpus Christi courses, the minimum score required, and the number of semester credit hours that may be awarded for these exams.

AP Exam	Minimum Score Required	A&M-Corpus Christi Course(s)	Credit Hours Awarded
Art History	4	ARTS 1303 & ARTS 1304	6
Biology	4	BIOL 1406 & BIOL 1407	8
Calculus AB	3	MATH 2413	4
Calculus BC	3	MATH 2413	4
AB subsection of BC Exam	3	MATH 2413	4
Calculus BC	4	MATH 2413 & MATH 2414	8
Chemistry	3	CHEM 1411	4
Chemistry	4	CHEM 1411 , CHEM 1412	8
Comparative Govt. & Politics	N/A	N/A	0
Computer Science A	N/A	N/A	0
Computer Science Principles	N/A	N/A	0
English, Language and Composition	4	ENGL 1301	3
or			
English, Literature and Composition	4	ENGL 1301	3
Environmental Science	4	ESCI 1401	4
European History	4	HIST 2311	3
French Language and Culture	3	FREN 1311 & FREN 1312	6
French Language and Culture	5	FREN 1311, FREN 1312, & FREN 2311	9
French Literature	3	FREN 2312	3
French Literature	5	FREN 2312, FREN 3306	6
German Language and Culture	3	GERM 1311, GERM	6

		1312	
German Language and Culture	5	GERM 1311, GERM 1312, & GERM 2311	9
Human Geography	3	Elective Credit	3
Latin	3	Elective Credit	3
Macroeconomics	3	ECON 2301	3
Microeconomics	4	ECON 2302	3
Music Theory	4	MUSI 1311 & MUSI 1116	4
Physics 1: Algebra Based	4	PHYS 1401	4
Physics 2: Algebra Based	4	PHYS 1402	4
Physics C (Mechanics)	3	PHYS 2425	4
Physics C (Electricity & Magnetism)	3	PHYS 2426	4
Psychology	3	PSYC 2301	3
Spanish Language and Culture	3	SPAN 1311, SPAN 1312	6
Spanish Language and Culture	5	SPAN 1311, SPAN 1312, & SPAN 2311	9
Spanish Literature and Culture	3	SPAN 2312	3
Spanish Literature and Culture	5	SPAN 2312	6
Statistics	3	MATH 1442	4
Studio Art: Drawing	4	ARTS 1316	3
Studio Art: 2-D Design	4	ARTS 1311	3
Studio Art: 3-D Design	4	ARTS 1312	3
U.S. Govt. & Politics	3	POLS 2305	3
U.S. History	4	HIST 1301 & HIST 1302	6
World History	4	HIST 2311	3

International Baccalaureate Diploma (IBD)

The International Baccalaureate Diploma (IBD) is an international program of courses and exams offered at the high school level. In keeping with Senate Bill 111 passed in 2005, Texas A&M University-Corpus Christi will grant credit (CR) for International Baccalaureate (IB) exams with certain required scores beginning fall of 2006 to incoming freshmen students.

Texas institutions of higher education must award at least 24 semester credit hours in appropriate subject areas on all IB exams with scores of 4 or above, as long as the incoming freshman has earned an IBD. However, course credit does not have to be awarded on any IB exam where the score is a 3 or less. This may mean that students will not receive 24 hours of college credit, even if they have an IBD.

Students bringing in an IB transcript for credit evaluation should consider the total number of qualifying credits to be awarded. Additional hours above the required amount to graduate may have an adverse impact on the students' financial aid or other grant programs.

Students must send an official IB transcript to the Office of Admissions. Students may contact the Office of Admissions for more information.

DSST Examinations

The table below shows DSST exams that are accepted for lower-division credit (unless otherwise specified), the minimum scores required, the equivalent A&M-Corpus Christi courses, and the number of semester credit hours that may be awarded for these exams.

DSST Exam	Minimum Score Required	A&M-Corpus Christi Course(s)	Credit Hours Awarded
Astronomy	48	ASTR 1311	3
Introduction to Computing	45/ 400	COSC 1315	3
Principles of Physical Science I	47	SMTE 3315	3
Principles of Statistics	48/ 400	MATH 1442	3

ACTFL Examinations

Students may receive course credit for their oral proficiency levels in a foreign language through the American Council on Education (ACE) Credit Recommendation Service and Language Testing International (LTI), the assessment agency for the American Council on the Teaching of Foreign Languages (ACTFL). Students who have taken an ACTFL Oral Proficiency Interview (OPI) or Writing Proficiency Test (WPT) through LTI, received a proficiency rating by LTI, and received credit recommendation by ACE may receive the following course credits in a foreign language at A&M-Corpus Christi:

Texas A&M University-Corpus Christi - Credit Recommendations for Official ACTFL Ratings

	Category 1	Category II	CategoryIII	Category IV
Official OPI, OPIc, WPT Rating	*Dutch, English*, French, Haitian Creole, Italian, Norwegian, Portuguese, Spanish, Swahili, and Swedish.*	*German, Hindi, Indonesian, Punjabi, and Urdu.*	*Cambodian, Czech, Hmong, Hebrew, Hungarian, Lao, Polish, Russian, Serbo-Croatian**, Slovak, Tagalog, Turkish, Thai, Ukraini, and Vietnamese.*	*Arabic, Cantonese, Japanese, Korean and Mandarin.*

Novice High/Intermediate Low	0 hrs	0 hrs	3 LD hrs	3 LD hrs
Intermediate Mid	3 LD hrs	3 LD hrs	6 LD hrs	6 LD hrs
Intermediate High/Intermediate Low	6 LD hrs	6 LD hrs	8 LD hrs	8 LD hrs
Advanced Mid	9 LD hrs	9 LD hrs	9 LD hrs	9 LD hrs
Advanced High/Superior	12 LD hrs	12 LD hrs	12 LD hrs	12 LD hrs

Legend

*English is treated as a foreign language.

** Serbian and Croatian have been combined to Serbo-Croatian. LD = Lower division The 10 ACTFL OPI language proficiency ratings are: Superior, Advanced High, Advanced Mid, Advanced Low, Intermediate High, Intermediate Mid, Intermediate Low, Novice High, Novice Mid, and Novice Low. For candidates completing French, German, or Spanish, credit can be earned in the respective courses of 1311, 1312, 2311, or 2312 based on the approved credit hours. For example, a student taking Spanish and earning a rating of Advanced Mid, will earn a total of 9 credit hours in Spanish 1311, Spanish 1312, and Spanish 2311.

For a complete listing of languages and a description of levels of speaking proficiency, please refer to the ACTFL website (www.actfl.org). To begin the process, students must submit a completed LTI application to the Office of Academic Testing.

Other Examinations

Credit may be accepted for other nationally recognized standardized exams. Credit for such exams will be considered on a case by case basis.

Additional Information on Credit by Examination

For further information on testing, contact the Office of Academic Testing at 361-825-2334 or visit the web site at http://testing.tamucc.edu/credit_exam.html.

For more information on the awarding of credit, contact the Office of the University Registrar at 361-825-2624.

Other Non-Collegiate Experiences

Texas A&M University-Corpus Christi recognizes the quality and importance of some non-collegiate training programs offered through industrial sources. Through cooperation of the faculty of the University, such offering detailed in the appropriate ACE publication will be reviewed, as required, for potential award. CEU and similar professional credits cannot be translated into academic hours.

Equivalencies

For purposes of transfer, work taken on a trimester system will be converted to semester hours on a 1-to-1 basis. In the event that the work was taken on a class hour basis, 15 class hours will be equated to 1 semester hour. For conversion from quarter hours to semester hours, Texas A&M University-Corpus Christi establishes the following equivalencies:

Quarter hours	Semester hours
1	0.7
2	1.3
3	2.0
4	2.7
5	3.3
6	4.0

The University uses the summation of the individual course equivalencies from a particular institution to compute grade point average and/or credits earned. For credit systems other than those listed above, the University Registrar will determine an ad hoc mathematical relationship and apply it to the record in question.

Non-Credit Admission (Auditing)

A student may attend classes for a course without receiving credit if he or she completes an application for admission, submits a course audit form at the time of registration, and has the permission of both the instructor of the course and the dean of the college in which the course is offered. The fee is the same as that required for registration for credit, but no credit will be awarded, no records will be kept, and the student may be restricted from lab work and tests. A student will not be given permission to audit a course until the first day of classes. Students may not change from credit to audit status after the 12th class day during a long semester or after the 3rd class day during the summer. No refunds are given on audits. Senior citizens (over 65) may audit on a space available basis only with all fees exempted except material or field trip fees. Under no circumstance may audit be converted to credit.

Registration

New students need to apply for admission through the Office of the Admissions prior to the term of enrollment. Former students may need to reapply for admission or reactivate their records in the Office of Admissions prior to the term of enrollment. As a general rule, students who have previously attended classes at the University, but who have not been enrolled here for two consecutive long semesters, will have to reapply for admission. Specific information regarding dates, registration materials, and course offerings may be found in the class schedule for each term (published during the preceding term). Unless exempted from the Texas Success Initiative, students must be assessed in reading, writing, and math skills prior to registration. (See "Texas Success Initiative (TSI)" in the "Admission" chapter of this catalog for details). Students must register by the specified deadlines for the term in order to be eligible to receive course credit. Registration requires payment of tuition and fees. See "Tuition and Fees."

Academic Advisement

Academic advisors are available to assist students with course selection, degree plans, and other academic matters. Each college has an academic advising center, staffed by full-time, professional advisors. Students who have not yet declared their majors are advised by the Islander Transition Center. For more information, call (361) 825-5931 or log on to http://aatc.tamucc.edu.

Unit of Credit

A semester hour is the unit of credit that is defined as the amount of credit given for one class hour per week for one semester. Each class hour generally requires two hours of preparation on the part of the student, though this may vary from one to three. Three hours of laboratory work are equivalent to one class hour. Most courses are for three semester hours of credit. Some have variable credit from one to three hours, others four to six hours.

Classification of Degree-Seeking Students

Texas A&M University-Corpus Christi enrolls degree-seeking students in both undergraduate and graduate programs. An undergraduate student is one who has not yet received a degree. A graduate is a student who holds a baccalaureate degree.

A degree-seeking undergraduate is classified as a freshman (or first-year student), sophomore, junior, or senior according to the number of semester hours of course work earned, as follows:

Classification	Semester Credit Hours Earned
Freshman (or First-Year Student)	fewer than 30
Sophomore	at least 30, but fewer than 60
Junior	at least 60, but fewer than 90
Senior	90 or more

Freshmen and sophomores are referred to as lower-division students; juniors and seniors, as upper-division students.

Enrollment Status for Financial Assistance

For purposes of financial assistance, enrollment status is defined below. (For rules applying to veterans benefits, however, see "Veterans Assistance.")

Enrollment Status	Semester Credit Hours Required
Full-time undergraduate student:	Fall or spring term = 12 hours
	Combined summer terms = 12 hours
Three-quarter-time undergraduate student:	Fall or spring term = 9 hours
	Combined summer terms = 9 hours

Half-time undergraduate student:	Fall or spring term = 6 hours
	Combined summer terms = 6 hours

Non-Degree Students

Non-degree students carry only that designation. They are not part-time or full-time students, nor are they classified as freshmen, sophomores, juniors, or seniors.

Course Numbers

Information on course numbers may be found in the Course Descriptions.

Courses of Instruction

The undergraduate courses offered in each field of study are listed in one section at the back of this catalog. Course descriptions may include projected course scheduling information. Although the lists of courses are based on the best information available at the time of catalog preparation, course offerings are subject to change without notice. This catalog was prepared well in advance of its effective date; therefore, changes may occur in course content or availability. Some new courses and modified courses are included in this catalog pending their approval by the Texas Higher Education Coordinating Board.

When registering for courses, students should always consult the semester class schedule, a separate publication that provides specific course offering information for a particular semester or session. The class schedule is issued before the registration period for each term.

Adding or Dropping a Course

Adding a Course: A student may add a course during the time specified in the class schedule. To add a course the student must obtain a Class Scheduling Form from the Office of the University Registrar.

Deadline for Dropping a Course with a Grade of W: The grade of W will be assigned to any student officially dropping a course by the date stated in the class schedule. No student is eligible to receive a W without completing the official drop process by this deadline. After the drop date listed in the class schedule, a student will not be allowed to drop a course. A change of section or a change to or from audit is a change of registration and requires that the add/drop process be followed.

Implications for Financial Assistance: Students should be aware that dropping courses may affect their eligibility for financial assistance.

Six-Course Drop Limit: The State of Texas has enacted a statute that applies to students who enroll in public institutions of higher education as first-time freshmen in fall 2007 or later. Under section 51.907 of the Texas Education Code, **"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."** Any course a student drops after the census date published in the class schedule or academic calendar is counted toward the six-course limit unless specifically identified as being exempt. An example of an exemption follows: If the student drops all courses for a given semester or term by officially withdrawing from the University, these courses are exempt from the six-course limit.

Withdrawal: If a student should drop all courses for a given semester or term, a Withdrawal Form must be processed. Refer to the following paragraph.

Withdrawal From the University

A student who finds it necessary to withdraw from the University during a session must file a Withdrawal Form in the Office of the University Registrar. The deadline for withdrawing from the University is the day before the last day of classes during a long semester (fall or spring), and the day before final examinations during a summer sessions. Failure to file a Withdrawal Form can result in grades of "F" in courses in progress.

A student who withdraws from the University according to procedures stipulated for withdrawal will be allowed a grace period to rescind the withdrawal. A student may rescind a withdrawal no later than the end of the second University business day following the date of withdrawal. The date of reinstatement must be among the regular days of classes: days of final examinations and thereafter are specifically excluded.

Should space no longer be available in a class, the student must secure the approval of the dean and/or instructor before reinstatement in class is allowed.

All indebtedness to the University must be satisfied prior to the reinstatement.

Reinstatement must be requested in writing by the student on a form provided by the University Registrar. All documentation and requirements for the reinstatement must be filed with the University Registrar by the end of the second business day (following the withdrawal), or else the reinstatement will not occur.

Students receiving veterans benefits for education should contact the Office of Veterans Affairs for specific policies concerning drops and withdrawals. These changes have a direct effect on VA benefits.

Withdrawal of Students Called to Active Duty

Section 54.006 of the Texas Education Code states:

Beginning with the summer semester of 1990, if a student withdraws from an institution of higher education because the student is called to active military service, the institution, at the student's option, shall

1. refund the tuition and fees paid by the student for the semester in which the student withdraws;
2. grant a student who is eligible under the institution's guidelines, an incomplete grade in all courses by designating "withdrawn-military" on the student's transcript; or
3. as determined by the instructor, assign an appropriate final grade or credit to a student who has satisfactorily completed a substantial amount of coursework and who has demonstrated sufficient mastery of the course material.

Retroactive Withdrawal

A student may request that all grades in an academic period be retroactively removed and replaced by entries of "W" on his or her transcript. A retroactive withdrawal may be granted only when a student has experienced circumstances of such serious and compelling nature that s/he could not reasonably have been expected to satisfactorily complete the academic period or submit a petition for regular withdrawal by the deadline specified in the University catalog. Such serious and compelling circumstances may include (but are not limited to) hospitalization, incarceration, debilitating mental illness, or sudden absence at the end of the semester due to family crisis. Failure to academically perform due to factors such as bad habits, poor judgment, time management issues, failed relationships, roommate conflicts, or ignorance of University policies would not generally qualify a student for retroactive withdrawal.

To withdraw retroactively from the University, the student must request this action in writing through the Office of the Associate Vice President for Academic Affairs. The request must be accompanied by supporting documents which demonstrate serious and

compelling reasons why action was not taken through the regular withdrawal process during the academic period in question. The time limit for making this request is the end of the next long semester following the academic period in question.

If retroactive administrative withdrawal is granted, the Office of the University Registrar will set all grades for the relevant term to a non-punitive mark of "W." If the student should wish to appeal a decision on retroactive withdrawal, an appeal can be made, in writing, to the Provost and Vice President for Academic Affairs within 14 days of the date of notification.

Class Attendance

Students are held responsible for class attendance and are advised that excessive absences may adversely affect their grades. Every instructor should make clear the policy on class attendance at the beginning of each course.

If students are absent from class on approved university business (e.g., intercollegiate athletics competition/travel, field trips, student research conferences, Board of Regents meetings), faculty members should count this as an excused absence and should not penalize the student for it. Students should be allowed to make up any required course work in advance or after their return to campus. Students are responsible for informing their instructors about the trip in advance so that the faculty members can make plans accordingly. Students need to make prior arrangements to make up labs. If students have any doubt as to whether the activity in question is considered official university business, they should contact the Provost's Office.

Student Absences on Religious Holy Days

In accordance with Texas Education Code 51.911, Texas A&M University-Corpus Christi will excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused for observance of a religious holy day may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

Texas Education Code, Section 51.911 defines a religious holy day as a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code. If a student and an instructor disagree that the absence is for the observance of a religious holy day, or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the Provost. The student and instructor shall abide by the decision of the Provost.

If a student's academic course work includes patient care, the University may exclude from these policies and procedures any student absence for religious holy days that may interfere with patient care.

Grades

Grades for courses shall be reported by the symbols below, with grade points as noted:

Grade	Interpretation	Grade Points per Semester Hour*
A	Excellent	4
B	Good	3
C	Average	2
D	Passing	1

F	Failure; work not passed	0

[Note: The above interpretations apply to grades A-F for undergraduate courses. Graduate students should consult the graduate catalog.]

CR* Satisfactory, but without qualitative grading. See "Alternate Grading Systems."

NC* No credit

P* Pass. Satisfactory, but without qualitative grading of the credit hours earned. Applicable only to those courses stipulated by the PASS/NO PASS policy. Not used in graduate courses.

NP* No pass. No credit is generated and the mark is not punitive. Applicable only to those courses stipulated by the PASS/NO PASS policy. Not used in graduate courses. Students are advised to use caution before electing the P/NP option and are encouraged to read the policy pertaining to it.

S* Satisfactory. Applicable to specified graduate courses.

U* Unsatisfactory. Applicable to specified graduate courses.

I* Incomplete. An incomplete notation may be given to a student who is passing but has not completed a term paper, examination, or other required work for reasons beyond the student's control other than lack of time.

IM* Incomplete-Military. An "IM" notation may be given to a student who is called to active military service and who consequently cannot continue attending class. In order for this notation to be given, the student must be passing the course, must have completed a significant portion of the course work, and must have the approval of the instructor.

IP* Assigned to a remedial course or a thesis/dissertation course indicating that at the conclusion of the semester the course was still in progress. This is a permanent notation that does not affect grade point average. To receive a qualitative grade, the student must register for the same course in the subsequent semester, paying the appropriate tuition and fees.

W* Course dropped or withdrawal from the University. Automatically given, regardless of the student's standing in class, when a student officially withdraws from the University or drops a course prior to the deadline as indicated in the class schedule. See "Adding or Dropping a Course" and "Withdrawal from the University" in this catalog.

WP* Withdrawal pass. Before the fall semester of 1996, this grade was assigned to a student who dropped a course or withdrew between designated dates in the semester or summer term and was passing the course at the time of the withdrawal. Grades of WP assigned before fall 1996 will remain on the transcript.

WF* Withdrawal failure. Before fall 1996, this grade was assigned to a student who dropped a course or withdrew between designated dates in the semester or summer term and was failing the course at the time of withdrawal. Grades of WF assigned before fall 1996 will remain on the transcript.

*CR, NC, P, NP, S, U, I, IM, IP, W, and WP grades are not counted in computing the GPA. A grade of WF assigned before the fall semester of 1996 is counted in computing the GPA.

The presence of a "D" preceding a qualitative grade of A-F references a developmental course and does not count toward hours earned nor grade points in computing GPA.

For a grade of W to be assigned, a student must officially withdraw from the course or University through the Office of the University Registrar. The receipt from the Office of the University Registrar should be kept as proof of withdrawal. If a student discontinues attending a class and fails to officially withdraw, and does not qualify for an "I," a qualitative grade (A-F) will be assigned.

If no grade is submitted by an instructor, a temporary notation (XX) will be placed on the student's records. In such cases, the course grade must be submitted within 30 days from the beginning of the next semester. If the instructor does not or is unable to submit the grade within the 30 days, the dean in consultation with faculty will submit the course grade.

Calculation of Grade Point Average

Texas A&M University-Corpus Christi uses a 4.0 scale for calculation of Grade Point Average (GPA). GPA is determined by dividing the total number of grade points earned by the number of semester credit hours taken for a qualitative grade (A=4, B=3, C=2, D=1, F=0). The result of this division is expressed as a number carried to the fourth decimal place and rounded up to the third.

For Purposes of Undergraduate Transfer Admission

> See "Transfer Admission" in the "Admission" chapter of the catalog.

For Purposes of Graduation with Honors

> See "Graduation with Honors" in the "Undergraduate Programs" section.

For Purposes of Graduation and Academic Rank

> Effective with those students who first entered Texas A&M University-Corpus Christi in the fall 1987 semester, only grades earned at this University will be used to calculate the Texas A&M University-Corpus Christi grade point average as used in determination of academic rank and eligibility for graduation.

Grades are made available to students at the end of each grading period at http://sail.tamucc.edu or by calling 361-825-7245 or 877-825-7245.

Change of Grade

A change of grade (among the values A, B, C, D, F) may occur only if there has been an error in computation or recording of the grade or if a change has been ordered as a result of the grade appeal process. A grade may not be changed because of consideration of work completed following the end of the grading period for which the grade was issued. If not associated with the grade appeal process, a grade change is initiated by the instructor of record and approved by the dean of the college of record. In rare circumstances, the approval of the Provost may be required. To be valid, a grade change must be submitted to the Office of the University Registrar on or before the last day of the next regular semester following the term in which the grade was originally issued, and on the form provided for that purpose.

Grade Appeal Process

As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedure, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal.

A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. If the problem cannot be resolved at this level, the student may take the steps below:

1. Written appeal to department chair or area coordinator. (This step must be taken within 15 business days after the start of the next term.)
2. If no satisfactory resolution can be found, the Department Chair will refer the matter, normally within 5 business days, to the Associate Dean for a hearing by the College Grade Appeal Committee (CGAC).
3. The Associate Dean will schedule a hearing before the College Grade Appeal Committee normally within 20 business days.
4. The Committee shall hear all parties to the case and review all evidence presented. Both the faculty member and student shall be present at the same time during the formal hearing.
5. The College Grade Appeal Committee will determine the facts of the case and attempt to affect a fair and appropriate resolution to the complaint.
6. The Chair of the CGAC will present its findings and recommendations, in writing, to the Associate Dean normally within five business days after completion of its hearings and deliberations.
7. The Associate Dean will send written notification of the decision to the student and the faculty member involved normally within five business days after receiving the CGAC's findings and recommendations.
8. This decision is final.

For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. This document is accessible through the University Rules Web site at http://www.tamucc.edu/provost/university_rules/index.html.

For assistance and/or guidance in the grade appeal process, students may contact the Office of Academic Affairs.

Removing the Grade of Incomplete

The notation of "I" indicates that work in a course is satisfactory but incomplete (certain work is postponed by the student for substantial reason with the prior consent of the instructor). This work must be completed by the last class day of the next regular (fall or spring) semester, unless the instructor designates an earlier date for completion. If the work is not completed by the appropriate date, the qualitative grade provided by the instructor on the incomplete notation application will be submitted to the Office of the University Registrar and will replace the "I." An incomplete notation cannot remain on the student's permanent record and must be replaced by a qualitative grade (A-F) at the conclusion of the next regular semester. If the grade of "I" has not been changed at the conclusion of the next regular semester, it will be changed to a final grade of "F" by the Office of the University Registrar.

Removing Grade of Incomplete-Military (IM)

The "IM" notation may be given to a student who is called to active military service and who consequently can no longer attend class. Such a notation may be assigned if the student is passing a course, but will not be able to complete a term paper, examination, or other required work for the course before the end of the semester or session because of the required active military service. Assignment of the "IM" notation requires the approval of the instructor. Normally the "IM" grade is not assigned unless the student has completed a substantial amount of course work. The remaining course work must be completed by the last day of the next regular semester (fall or spring) following the student's return from active military service. The "IM" designation will remain on the student's permanent record if the work is not completed by the appropriate date. For more information on options available to students who are called to active military service, see "Students Called to Active Duty."

Pass/No Pass Policy

Each upper-division student may take up to two academic courses (eight semester hours maximum) graded on a pass/no pass basis during a particular degree program. These courses (if passed) will count as part of the total needed to graduate, but will not

enter into calculation of grade point average. Designated general education requirements and specific courses required by the major/minor, including required foundation courses outside the discipline of the student's major, as approved by the college of the student's major, cannot be taken pass/no pass, unless so stated in the catalog. A course that has been recorded as P cannot be used as a component of general education requirements or of the major/minor field of study. Students will indicate to the Office of the University Registrar their intention to take a course on a pass/no pass basis before the 12th class day (census date) of a fall or spring semester or the 4th class day (census date) of a summer session or term, as shown in the class schedule. Once such a declaration is made, it cannot be changed on any account including a change of major or degree designation. The faculty member will not be informed that a student is taking the course on a pass/no pass basis. Pass/no pass grades are not used in graduate courses.

Alternate Grading Systems

Certain courses proposed by individual colleges and approved by the Faculty Senate may use the alternate grading system CR/NC when the standard system authorized for the University (A, B, C, D, F, I, IP, W) is not considered appropriate. CR/NC is a designation of the University given to certain courses, all of whose students receive one of these grades; P/NP is an option that a student may designate in any course, subject to the restrictions above.

The total number of credit hours earned at this University outside the standard grading system (e.g., grades of CR/NC or P/NP) that a student may apply toward the baccalaureate degree is ten (10). No more than seven (7) semester hours of CR/NC may be in a student's major field of study. The hours graded P (pass) or CR (credit), given in those instances where standard letter grades are not used, will not be applied in computing grade point averages nor influence student eligibility for academic honors.

Final Examinations

Final examinations must be scheduled during the regularly scheduled examination time listed in the official class schedule. If papers or take-home examinations are assigned in lieu of a final examination, the due date must be at the regularly scheduled examination time listed in the official class schedule. If final presentations or final critiques assigned in lieu of final examinations require multiple days to complete, then the final day for the critiques/presentations must occur on the regularly scheduled exam day.

Students are not required to take more than two final examinations in any one day. Any student with three or more final examinations scheduled on the same day may request to take one of the examinations on another day during the final examination period. The process is described below.

1. The student should first try to resolve the matter with the appropriate instructor(s).
2. If the matter remains unresolved, the student should submit a request for an alternative final exam time in writing to the Office of Student Affairs. This request must be submitted by the drop date (the last day to drop a course for the semester with an automatic grade of W as stated in the semester class schedule).
3. The Office of Student Affairs will select which of the exams should be taken at an alternative time and formally contact the faculty member at least 15 working days before the final examination period. Preference for selection of which course would have an alternative final exam time must be based on the course with the smaller class size and, then, courses with final exam times in between other exams.
4. The faculty member will then arrange an alternative time for the student to take the final exam for that course that does not conflict with the student's final exam schedule or require the student to take more than two final exams in one day. If students have difficulties in rescheduling the examination, they should consult with the Office of Student Affairs. Final exams given outside the regularly scheduled time may vary in content and format at the discretion of the faculty member.

Graduation Under a Particular Catalog

A student may receive the baccalaureate degree upon satisfying the requirements of the catalog under which credit was first earned in this University or upon satisfying the requirements of the catalog of any subsequent year in which credit was earned as a student in the University. This provision is subject to the restriction that all requirements must be completed within six years of the date of the catalog chosen and that the University still offers programs and required curriculum described in the earlier catalog. A student who transfers from a public community college in Texas may choose to graduate under the University catalog in effect at the time the student first earned credit at the community college or a later catalog in effect when the student earned credit at either the community college or the University. This provision is subject to the six-year restriction stated earlier.

Certification or licensure requirements are subject to change. Students enrolled in programs leading to certification or licensure must meet all current requirements, regardless of the catalog chosen.

Application for Graduation

Students intending to have a degree conferred must notify the appropriate dean's office and their academic advisor. All transferred work needed for undergraduate degree conferment must be received by the Office of the University Registrar within the graduating term. Census date is defined as the 12th class day for fall and spring graduations and the 4th class day of Summer I for summer graduation. Students who plan to participate in a graduation exercise and/or receive a diploma must complete an application for graduation by the deadline indicated in the Academic Calendar. An application for graduation must be obtained and processed through the student's academic advisor. Students participating in the graduation exercise will also be required to obtain an appropriate cap and gown. The application for graduation is not transferable to a subsequent semester. If a student does not graduate, the application will be canceled. A new application must be obtained and processed through the student's academic advisor.

Academic Integrity

It is expected that university students will demonstrate a high level of maturity, self-direction, and ability to manage their own affairs. Students are viewed as individuals who possess the qualities of worth, dignity, and the capacity for self-direction in personal behavior.

However, in the interest of other students and the University in maintaining these standards, the University reserves the right, through due process, to place on probation, suspend, or dismiss any student who violates academic integrity and regulations by providing false, misleading, or incomplete information to the University, by falsification of University records, by plagiarism, by classroom misdemeanor, or by academic dishonesty. Students are expected to obey federal, state, and local laws as well as the regulations of the University.

Should it become necessary to initiate disciplinary proceedings against a student attending this University, established guidelines for procedural due process will be followed. The University recognizes and accepts the basic contents and guidelines included in the 1967 Joint Statement of Rights and Freedoms for Students adopted by many recognized professional educational associations.

Academic Honesty

University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, forgery, or plagiarism. (Plagiarism is the presentation of the work of another as one's own work.)

Disciplinary action for academic misconduct is the responsibility of the faculty member assigned to the course. The faculty member is charged with assessing the gravity of any case of academic dishonesty, and with giving sanction to any student involved.

Penalties that may be applied by the faculty member to individual cases of academic dishonesty include one or more of the following:

1. Written reprimand;
2. Requirement to re-do work in question;
3. Requirement to submit additional work;
4. Lowering of grade on work in question;
5. Assigning grade of "F" to work in question;
6. Assigning grade of "F" for course;
7. Recommendation for more severe punishment, such as dismissal from the program or from the University.

If the faculty member determines that assigning a grade of "F" to the course is the appropriate penalty and this disciplinary action occurs prior to the deadline for dropping courses, the student forfeits his or her right to drop the course in question.

If the faculty member recommends more severe punishment, such as dismissal from the program or from the University, the faculty member will notify the appropriate college dean, who in turn will notify the Office of Student Affairs. If dismissal from the University is recommended because of academic dishonesty, the Office of Student Affairs will follow its procedure for such cases.

The faculty member must file a record for each case of academic dishonesty, including a description of the disciplinary action taken, along with any materials involved, with his or her college dean, who will forward a copy to the Office of Student Affairs. The office of the academic dean of the college in which the offense took place will maintain records of all cases of academic dishonesty reported for a period of five years. The Office of Student Affairs will also maintain records of such cases for a period of five years. The Office of Student Affairs will inform the Graduate Dean as appropriate.

Any student who has been penalized for academic dishonesty has the right to appeal the judgment or the penalty assessed. Students who wish to appeal an academic dishonesty decision should contact the Office of Student Affairs for guidance.

Academic Records

Permanent academic records are maintained in the Office of the University Registrar. When a transcript or other document has been submitted to Texas A&M University-Corpus Christi, it becomes the property of the University and will not be yielded back to the student as an original.

Academic files and degree plans are maintained in the offices of the college deans. The college deans are responsible for certifying that students receiving undergraduate degrees have satisfied all college degree requirements. The Office of the University Registrar is responsible for certifying that University minimum requirements have been satisfactorily completed.

Challenge to an Academic Record

A student who wishes to challenge the accuracy of the academic record established at Texas A&M University-Corpus Christi and held in his or her behalf, must notify the Office of the University Registrar in writing and explain in detail the nature of the error. The Office of the University Registrar will study the challenge and the contents of the student's file, and consult with the appropriate academic personnel. The Office of the University Registrar will reply to the student within 30 working days.

The student has one calendar year from the date that the datum becomes a fact of record to initiate a challenge. If a challenge is successful and affects the student's GPA, honors status or similar rubric, the historical record will be altered accordingly.

Application of this policy is not intended to abridge, supplant, or supersede other deadlines. The University reserves the right to correct or amend an academic record at any time that an error may be detected. In each case, the student will be given written notice of the change.

Change of Name or Address

Changes of name must be filed in the Office of the University Registrar. Address and/or telephone number changes may be processed through the Office of the University Registrar or through the web using the Student Academic Information Link (SAIL).

Student Records Policy

The University accumulates data and keeps records to enable staff and faculty to plan educational opportunities to meet the needs of individual students, to better understand students, to counsel them more effectively, and to assist them in placement in graduate education or employment after graduation.

The University maintains student records in several locations, including the Office of the University Registrar, Office of Student Financial Assistance, Business Office, offices of academic deans and faculty, Office of Student Affairs, Office of the Director of the University Core Curriculum Program, College of Graduate Studies, Office of Public Affairs, Career Services, University Health Center, University Counseling Center, Disability Services, and Alumni Office. Provisions are made in these offices for students to review and challenge the accuracy of records when appropriate and upon request.

The University complies with the Family Educational Rights and Privacy Act of 1974 (FERPA) and with the Texas Public Information Act. FERPA is a federal law intended to protect the privacy of education records, to establish the rights of students to inspect and review their education records and to provide guidelines for the correction of inaccurate or misleading information through informal or formal hearings. Information in student records may be provided to parents without the written consent of the student if the eligible student is a financial dependent of his or her parents as defined under Section 152 of the Internal Revenue Code of 1954. Such requests should be submitted to the Office of the University Registrar.

Students have the right to inspect and review their education records, except for the following:

1. Financial records of the student's parents.
2. Confidential records and statements of recommendation, which were placed in the education records prior to January 1975.
3. Confidential records and statements of recommendation, which were placed in the student's education records on or after January 1, 1975, if the student has waived the right to review the letters or statements.

Education records, as defined by FERPA, do not include the following: a personal record of a University faculty or staff member that is in the sole possession of the individual who made it and that has never been revealed to any other person except the maker's temporary substitute; certain employment records; student health records; student records of personal counseling (records protected under other laws and regulations); and records maintained by a University law enforcement unit that were created by that unit for the purpose of law enforcement. (However, the University may release to an alleged victim of a crime of violence the results of a University disciplinary proceeding concerning the alleged perpetrator of the crime.)

The University maintains two types of student education records: directory information and other student records. Directory information is considered public information and will be released by the University upon request, in accordance with existing law. This public information includes: name; home address; local address; local telephone number; date of birth; field of study; enrollment status (full-time, part-time, undergraduate, graduate, etc.); classification (fr., so., jr., sr.); dates of attendance; degrees, certificates, and other awards received (if any); the type of degree received; date of graduation; name of most recent previous institution attended; and similar information. A student who does not wish this public information to be released must complete the appropriate form and submit it to the Office of the University Registrar.

With the exception of directory information, the University will not permit the release of personally identifiable information in education records without the prior written consent of the student, except as follows:

1. To appropriate University personnel who need access to educational records to perform their legitimate educational duties.

2. To officials of other schools in which the student seeks to enroll, provided the student is notified of what is being released and is given a copy if desired.
3. To federal, state, or local officials authorized by law.
4. In connection with a student's application for, or receipt of, financial aid.
5. To organizations conducting educational studies, provided that these organizations do not release personally identifiable data. 6. To accrediting organizations.
6. To the parents who certify that a student is carried as a dependent for federal income tax purposes.
7. To appropriate persons, in an emergency, if the knowledge of such information is necessary to protect the health or safety of the student or other persons.
8. To individuals requiring such information by means of a judicial order or a lawfully issued subpoena, provided a reasonable effort is made to notify the student in advance of compliance.

The University does not maintain records of membership in organizations or of political, racial, or religious affiliations.

The acquisition and dissemination of information for records is based on a respect and concern for the privacy and protection of the individual student. However, the obligation of confidentiality may lapse when the common welfare of the community or the welfare of the individual demands revelation such as in the case of suicidal preoccupations, expressed homicidal thoughts or actions, commission of a felony, or similar circumstances. Evaluation and interpretation of a student's records shall be done only by a professional and qualified staff person.

Policies Subject to Change

Although every effort has been made to provide complete and accurate information in this catalog, changes may occur at any time, without notice, in academic policies and regulations.

Tuition, Fees & Financial Assistance

Tuition and Fees

Specific tuition and costs can be viewed at http://businessoffice.tamucc.edu/tuition_and_fees%20/index.html.

Tuition and fees are pending approval and are subject to change.

Texas Residency

All students attending Texas A&M University-Corpus Christi who are non-residents of Texas will be charged additional tuition in accordance with State law. In general, students will be classified as Texas residents if they meet one or more of the following criteria:

1. Any individual who has resided in Texas from birth.
2. Any individual 18 years of age or over who has come from outside Texas and who is gainfully employed in Texas for a 12-month period immediately preceding registration in any institution of higher learning.

Additionally, there are certain other circumstances under which an individual may be classified as a Texas resident. Residency status will be established according to the interpretations by the Texas Higher Education Coordinating Board pursuant to Title 3, Texas Education Code. The Coordinating Board rules on determining residency status may be found at the following web site: http://www.thecb.state.tx.us/Rules/tac3.cfm?Chapter_ID=21&SubChapter=X.

Although classified as a non-resident, a member of the armed services who is assigned to duty in Texas is privileged to register at the Texas resident fee rate. This includes immediate family members.

Under State law, certain other categories of students may be eligible for tuition and fees exemptions or adjustments. See the semester class schedule for more information.

The responsibility of registering under the proper residence is placed upon the student. If there is any possible question of legal residence, the student should confer with the Office of the University Registrar of Texas A&M University-Corpus Christi and have such question settled prior to registration.

A non-Texas resident seeking to change residence status must fill out and submit to the Office of the University Registrar a Residency Status Questionnaire prior to registration. For more information about Texas Residency can be found at http://admissions.tamucc.edu/residency.html.

Financial Obligations

Students are expected to pay all financial obligations to the University when due. Failure to pay such obligations may result in the student's removal from the University, transcripts placed on hold, exclusion from final exams and graduation, and/or exclusion from further enrollment. Financial obligations include, but are not limited to, the following: returned checks; returned check charges; library fines, lost or damaged book charges, or replacement costs of long-overdue books; loss or breakage of instructional material or equipment; dormitory fees; installment payments; parking fines; and repayment of financial aid loans and emergency loans.

All tuition and fee costs are due upon registration, and failure to pay may result in the loss of the student's schedule. Registration is not complete until the University Business Office has received payment and all necessary documentation has been completed. Regardless of the type of deferral, the ultimate financial responsibility rests with the student. There will be a late payment fee of $50.00 assessed for student's who pay after the deadline established by the University Business Office. An additional fee of $100.00 will be collected for registration 2 reinstatement into classes lost after non-payment by the student. The University Business Office periodically performs audits on students' accounts to verify that the proper amount of tuition and fees has been paid; this may result in additional charges or refunds.

Returned Checks

When students write checks to the University or submit payments online via Webcheck that are not honored by the bank, and are subsequently returned to the University, the individual who gave the check will be notified. Within seven days of such notification, the individual should pay the amount of the check plus a returned check charge of $25.00 to:

Business Office

Texas A&M University-Corpus Christi

6300 Ocean Drive Unit #5765

Corpus Christi, Texas 78412-5765

This may be done in person or by mail and must be in the form of cash, money order, or cashier's check. The University will not accept a personal check in payment of a returned check.

Should a returned check not be paid within the allotted time, the individual will be subject to disciplinary action, including removal from the University, legal action as prescribed by law and payment of all collection fees. If an individual has written three (3) checks to the University that have been returned unpaid by his or her banking institution for any reason, the University will no longer accept checks from that individual.

Returned checks written for SandDollar accounts will result in the account being inactivated until the check and the returned check charge are paid in full.

Refund of Tuition and Fees

A student officially and completely withdrawing from the University may apply for a refund of applicable tuition and fees according to the following scale:

10 Weeks or Longer Term:

100% prior to the University's first official class day

80% during the first five class days

70% during the second five class days

50% during the third five class days

25% during the fourth five class days

No refund thereafter

Less than 10 Weeks but Greater than 5 Weeks Term:

100% prior to the University's first official class day

80% during the first three class days

50% during the second three class days

No refund during the seventh class day and thereafter

5 Weeks or Less Term:

100% prior to the University's first official class day

80% during the first class day

50% during the second class day

No refund during the third class day and thereafter

For more information, contact the Business Office or go to http://businessoffice.tamucc.edu/important_dates%20/index.html and click on Important Dates.

The process of withdrawing from the University begins in the Office of Admissions and Records.

A student dropping a course or courses yet remaining enrolled in the University in other courses may apply for a refund of applicable tuition and fees as follows:

Ten Weeks or Longer Term:

100% prior to and including 12th class day

No refund after 12th class day

Less than Ten Weeks but Greater than Five Weeks Term:

100% prior to and including 4th class day

No refund after 4th class day

Five Week Summer Term:

100% prior to and including 3rd class day

No refund after 3rd class day

2½ Half Week Summer Term:

100% prior to and including 2nd class day

No refund after 2nd class day

For more information, contact the Business Office or go to http://businessoffice.tamucc.edu/important_dates%20/index.html and click on Important Dates.

The days of classes are counted from the first official class day of the University each term, not the first meeting day of a particular class.

After an audit of all fees has been made, the refund process will begin. This process requires a reasonable length of time. No refunds are given on audited courses.

Students using the Installment Payment Plan who withdraw from the institution will have the refund, if any, calculated based on the total amount of tuition and fees due at the time of registration, not the amount of tuition and fees paid at the time of withdrawal.

Students with financial aid who withdraw may be subject to the federal refunding timetable and rates. Students should consult with the Financial Aid Office about their situation before withdrawing.

Refunds

A refund will result when a credit balance remains on each student's Business Office account after all charges are paid. A credit balance may occur due to overpayments, dropped courses, withdrawals or financial aid (loans, scholarships, grants, etc…). Refunds are issued to the students by a refund contractor, Higher One. A new student, upon registration, will receive in the mail, from Higher One, an account number along with refund preference instructions. Higher One will use the Billing Address on file with the University to send this correspondence to the student. It is important that this address is current. The account number, embossed on the Easy Refund Card (MasterCard Debit Card) is used to activate each student's refund choice with Higher One. This is not a credit card, but an account for refund processing and will be needed for the entire time as a student, so it must not be thrown away. The account must be activated at https://corpuschristi.higheroneaccount.com and the student can then must choose the method that the refund will be delivered. The three options are: 1) Direct Deposit into a bank account of the choice, 2) Opening a Higher One Bank Account or 3) Paper Check. If the student does not activate the account, Higher One will not be able to process the refund. To replace a lost card there is a $25 replacement fee, the initial card that is sent free of charge.

New students will begin the process of receiving their Easy Refund Card upon registration. Once the student has registered then he or she will receive the card in 7 to 10 business days. If a student does not receive his or her Easy Refund Card they should go to https://corpuschristi.higheroneaccount.com and select Where's My Card or contact the Business Office at (361) 825-2600.

Tuition Rebates for Certain Undergraduates

Certain undergraduate students who attempt no more than three hours in excess of the minimum number of semester credit hours required to complete their degrees may be entitled up to a $1,000 tuition rebate after graduation.

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 be requesting a rebate for work related to a first baccalaureate degree received from this University,
3. They must have been a resident of Texas, must have attempted all course work at a Texas public institution of higher education, and have been entitled to pay resident tuition at all times while pursuing the degree, and
4. They must have *attempted* no more than three hours in excess of the minimum number of semester credit 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, for-credit developmental courses, optional internship and cooperative education courses, and repeated courses. Courses dropped for reasons that are determined by the institution to be totally beyond the control of the student shall not be counted.
5. Beginning with students admitted for the first time in fall 2005, a student must also graduate in a timely manner to earn the tuition rebate. A student who wants to qualify to receive the rebate must graduate within four calendar years for a four-year degree or within five calendar years for a five-year degree if the program is determined by the Texas Higher Education Coordinating Board to require more than four years to complete.

Students desiring to qualify for tuition rebates are responsible for complying with all rules related to the administration of the program. Students are responsible for enrolling only in courses that will qualify them for the rebates. A student who has transferred from another institution of higher education is responsible for providing the University with official transcripts from all institutions attended. Students must apply for rebates on the appropriate forms prior to receiving their baccalaureate degrees and must keep the University apprised of their addresses for a specified period following graduation.

The amount of tuition to be rebated to students under this program will be based on state guidelines. If a student entitled to a rebate has an outstanding balance owed to the University or to student loans, the University shall apply the amount of the rebate to the balances owed. If the amount of the rebate exceeds the amount of the indebtedness, the University shall pay the student the excess amount.

For more information on this program, contact the Business Office or the Office of the University Registrar or go to http://www.collegefortexans.com/cfbin/tofa2.cfm?ID=75.

Fees for Multiple Repeats of a Course

The State of Texas will not provide funds to state institutions of higher education for semester credit hours related to a course in which a student is enrolled for the third time. Therefore, as permitted by state law, the University will charge additional fees to a student who registers for a course for the third time or more. The fee will be $100 per semester credit hour for such courses. The courses counted toward the limitation include all hours attempted by the student except: Thesis, Dissertation, Individual Music Lessons, Theater Practicum, Music Performance, Ensembles, Studio Art, certain P.E. and Kinesiology courses, Independent Study (topic changes), Special Topics (topic changes), and Developmental Education (not to exceed 18 semester credit hours).

Tuition for Excessive Undergraduate Hours

The State of Texas will not provide funds to state institutions of higher education for excess semester credit hours earned by a resident undergraduate student. Therefore, as permitted by state law, the University will charge additional tuition to students who exceed the semester credit hour limit for their programs. The additional charge per semester credit hour may be billed to any student that meets these applicable rules (this fee can be viewed at http://falcon.tamucc.edu/~business/businessoffice_miscellaneous_fees.htm). The tuition rate will not exceed the rate charged to nonresident undergraduate students. Excess semester credit hours are those which accrue after the student exceeds by 30 hours the number of semester credit hours required for the completion of the degree program in which the student is enrolled. Thus, the student may accumulate up to 30 hours beyond those required for the chosen degree program and not exceed the limitation. The limitation on excess credit hours applies only to those undergraduate students who first enter higher education in fall 1999 or later. The semester credit hours counted toward the limitation includes all hours attempted by the student except:

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

Methods of Payment

The methods of payment that are accepted by the Business Office include cash, checks, credit/debit cards, installment payment plans and emergency loans. Installment payment plans and emergency loans are discussed below. For information on payment by check or credit/debit card, see the Business Office website at http://businessoffice.tamucc.edu/method_pay.html or call (361) 825-2600.

Installment Payment Plan (Fall and Spring Only)

An installment payment plan is available to most students under the provisions of Section 54.007 of the Texas Education Code. The University offers two options to pay by installments: a three-payment plan (30% prior to the start of the semester with two more payments during the semester of 35%) and a four-payment plan (25% prior to the start of the semester with three more payments during the semester of 25%). Subsequent installment payments should be made directly to the Business Office. A nonrefundable processing fee of $20.00 will be charged and a late fee of $25.00 will be added to each installment not received by the due date.

Students utilizing the installment option must execute an electronic agreement which sets forth the conditions and repayment schedule of the payment plan selected. Under the provisions of the installment payment option in the law, *a student who fails to make full payment of tuition and fees, including any incidental fees, by the due date may be prohibited from registering for classes until full payment is made. A student who fails to make payment prior to the end of the semester (last class day) may be denied credit for work done that semester.*

Students who register for classes during WEB Registration and wish to use an Installment Payment Plan must sign up online though the SAIL website at http://sail.tamucc.edu/.

Emergency Loans

Short-term emergency loans are available to students who need assistance in covering tuition and fees and books. Funds are limited and will be provided on a first-come, first-served basis to eligible applicants. Information on eligibility requirements and the application process can be found on the Business Office website at http://businessoffice.tamucc.edu/faq_emergency.html. There is a non-refundable processing fee of $25.00 per loan. A late payment fee of $25 will be added to each loan that is not paid in full by the due date.

Fees

Click here for information on current tuition and fees.

Parking Fees

All students who park their vehicles on campus lots, including the lots at the housing complexes, must obtain a permit to park in the designated areas. The University Police Department implements and enforces the parking regulations. Payments are made in the Business Office. Information on costs of parking permits can be found on the University Police Department website at http://police.tamucc.edu/park/parkingRegulations.html.

Designated Tuition

Click here for information on current tuition and fees.

Undergraduate Student Tuition

Click here for information on current tuition and fees.

Hope and Lifetime Learning Tax Credits

Go to https://www.irs.gov/uac/Tax-Benefits-for-Education:-Information for information about Hope and Lifetime Learning tax credits. The Business Office mails out 1098-T forms to students by January 31st for the preceding calendar year.

Financial Assistance

Programs to assist students and parents in financing an education at Texas A&M University-Corpus Christi are administered by the Office of Student Financial Assistance. Students may apply for financial assistance through scholarship, grant, work study, and loan programs.

Eligibility for the majority of financial aid programs is determined through a financial needs analysis. This analysis is made after the student completes and submits a Free Application for Federal Student Aid (FAFSA). Before an undergraduate student can be considered for financial aid, he or she must:

1. be officially admitted to the University;
2. be working toward a degree and classified by the Office of Admissions as degree-seeking;
3. be enrolled at least half-time (6 semester hours during a long semester or 3 hours during each summer term);
4. meet the deadlines set by the Office of Student Financial Assistance;

5. not be in default or owe a refund on any Title IV grant(s) or loan(s);
6. provide proof of eligibility if not a citizen of the United States;
7. provide documents that support information reported on applications for financial aid;
8. meet minimum G.P.A. requirements of a 1.8 cumulative for freshman students (0-29 earned hours) or 2.0 for sophomores, juniors and seniors (30+ earned hours), and maintain satisfactory academic progress as required for financial aid eligibility to fulfill federal requirements.

Financial aid programs available to undergraduates include Federal Pell Grant, ACG (Academic Competitiveness Grant), SMART Grant (National Science and Mathematics Access to Retain Talent), Federal College Work Study, Federal Supplemental Educational Opportunity Grant, Texas Public Educational Grant (resident and nonresident), A&M-Corpus Christi Grant; TEXAS Grant; Texas Be on Time Loan, Federal Perkins Student Loan, Federal Loan programs, and various scholarships. Several grants and scholarships are offered through the Texas Higher Education Coordinating Board. Federal Family Education Loans are distributed in two disbursements in accordance with Federal regulations. If the student is receiving a loan for one term, the first check will be disbursed at the beginning of the semester and the second after the midpoint of the semester. A loan that covers both fall and spring terms will result in a disbursement at the beginning of each semester. First year, first time borrowers will not receive their first loan disbursement until 30 days into the semester.

Most financial aid programs have a limited amount of funds, which must be granted on a first-completed, first-awarded basis. Therefore, students are strongly encouraged to have their financial aid files completed by February 15 for summer, by March 31 if applying for assistance for both fall and spring, or by November 1 if applying for assistance for spring only.

Application forms and detailed instructions on applying for financial aid are available through the Office of Student Financial Assistance and at the following web address: http://osfa.tamucc.edu.

Satisfactory Academic Progress Policy

The Higher Education Act of 1965, as amended, mandates that institutions of higher education establish policies to monitor the academic progress of students who apply for and/or receive federal financial assistance. Texas A&M University-Corpus Christi applies its minimum standards to all federal, state, and institutional financial aid programs in order to maintain a consistent policy for all financial aid applicants. Though this policy establishes the minimum standards for all financial aid programs at A&M-Corpus Christi, an individual aid program may have unique qualitative and/or quantitative standards specific to the program as mandated by law or the program's governing entity. Examples include ACG Grant, SMART Grant, Texas Grant, Federal TEACH Grant, Texas Be On time Loans, Academic Scholarships, and Athletic Scholarships.

To be awarded or receive any financial aid, a student must be accepted to the University in good academic standing (i.e., no conditional admittance), be enrolled in credit courses leading toward a degree or teaching certificate, and maintain satisfactory academic progress in the course of study pursued. This policy is consistently applied to all enrollment periods regardless of whether or not the student received aid.

Minimum Standards of Satisfactory Academic Progress

At the end of each academic year (spring semester), students must show satisfactory progress toward a degree or certificate based on the following elements:

1. Academic Standards
2. Maximum Frame for Degree/Certificate Completion
3. Successful Credit Hour Completion Rate

Academic Standards

Students must maintain the following cumulative grade point average to retain financial aid eligibility:

Undergraduate Students (0-29 earned hours) 1.8 Cumulative GPA
Undergraduate Students (30+ earned hours) 2.0 Cumulative GPA

Maximum Frame (Attempted Hours) for Degree/Certificate Completion

For financial assistance purposes, students will be limited to the following number of attempted hours to complete their degree or certification program:

Undergraduate Degree/Certification 186 attempted hours

Attempted hours include all transfer hours and all registered hours at A&M-Corpus Christi per semester whether or not the student earns a grade, receives credit, or received financial aid. The following are considered hours attempted, but not completed/earned:

- Grades of F or NC
- I or incomplete
- W or withdrawal from courses

The following are considered hours attempted and successfully completed/earned:

Grades of A, B, C, D, CR, and IP

Successful Credit Hour Completion Rate

Students must successfully complete/earn a minimum of 67% of all attempted semester credit hours. Note: All partial credit hours will be rounded down to the nearest hour. Examples:

1. If a student attempts (registers for) 24 credit hours in an academic year, the student must complete a minimum of 16 credit hours (24 x 67% = 16) in order to meet the requirements for satisfactory academic progress for the year.
2. If at the end of the second year, a student has attempted 60 hours, the student must have completed a minimum of 40 credit hours (60 x 67% = 40) to meet the requirements for satisfactory academic progress.

Remedial Course Work

Students may receive financial assistance for remedial course work if acceptance to a program has been confirmed, and the remedial course work is necessary to complete the program. Students cannot receive financial assistance for remedial course work if their acceptance to a program is based on the completion of the remedial work. Remedial course work is limited to 24 semester hours

Review Policy

At the end of each spring semester, the Office of Student Financial Assistance will review the progress of each financial aid recipient to determine eligibility for aid consideration for the upcoming academic year.

Financial Assistance Suspension Policy

If it is determined that a student does not meet the minimum satisfactory academic progress requirements, he or she will automatically be placed on financial assistance suspension and will be notified accordingly. Students on financial aid suspension are not eligible for any type of federal, state, or institutional aid.

Note: Students on scholastic suspension/dismissal or enforced withdrawal will also be placed on financial assistance suspension.

Conditions for Reinstatement

Students may attend the next semester/term at A&M-Corpus Christi without financial aid to reinstate eligibility. If, at the end of the semester/term, the student again meets the minimum satisfactory academic progress standards, the student may submit a written request to the Office of Student Financial Assistance to have his or her application for aid reinstated for the next and subsequent semesters/terms of the current academic year. Continued eligibility for the next academic year will be determined again at the end of the spring semester during the regular review process.

Appeal Policy

Students who fail to maintain satisfactory progress due to extenuating circumstances may submit an application for appeal to be reviewed by the Aid Appeals Committee. To appeal for reinstatement of financial aid eligibility, students must complete and submit the Request for Appeal form to the Office of Student Financial Assistance. A completed appeal application includes a letter and supporting documentation providing a detailed explanation of the extenuating circumstances, such as personal injury or medical problems, illness or death of an immediate family member, etc. In addition, if a student has exceeded the maximum time frame and is appealing based on a change of major, he or she should state the reason for the change and indicate the number of hours remaining to be taken in the new major. The student's academic advisor must complete the advisor section of the application.

If the appeal is approved by the Aid Appeals Committee, financial aid will be continued as if the student is otherwise eligible. If denied, the student may request a meeting with the appeals committee. If the outcome of the meeting does not result in an approval of the appeal, the student must reinstate eligibility according to actions outlined in the previous section.

The decision of the committee is final and may include additional conditions the student must meet as deemed appropriate by the committee. All students (approved or denied) will be reviewed again for continued eligibility at the end of the academic year during the regular review process.

Refund and Repayment Policies

Students who register and then withdraw from their classes at the University will have their aid recalculated based on the number of days they attended class. If a student withdraws from all classes prior to the first class day, he or she may be required to repay any and all financial aid received. Students should consult the Satisfactory Academic Progress Policy to determine if their withdrawal will affect future aid eligibility.

Scholarships

Texas A&M University-Corpus Christi offers a variety of academic scholarships for incoming freshmen, current undergraduate, and transfer students. Current undergraduate and transfer students must have a minimum GPA of 3.0 to apply (unless otherwise noted) and plan to be at least a full-time student (12 hours per semester) if awarded.

Lists of scholarships available to students can be found in the scholarship office. The deadline to apply for undergraduate university scholarships is February 15. Applications will be reviewed and rated on the basis of GPA, transcript, community involvement, essay, resume, and other criteria. More information is available at scholarships.tamucc.edu/current.php.

The priority deadline for incoming freshmen for the next academic year is December 1. All applications received after this date will be awarded on a funds-available basis. Information on scholarships for incoming freshmen is available online at scholarships.tamucc.edu/freshmen.php. Scholarships are open to all incoming freshman students and are not restricted by college major. Decisions will be based on academic standing, class rank, test scores, and enrollment in AP classes.

A non-resident U.S. citizen or international student who is a recipient of a competitive University scholarship may be eligible for the Texas resident tuition rate. The student must have competed with other students, including Texas residents, for the scholarship. For additional information on scholarships, visit the University website for Scholarship Programs at scholarships.tamucc.edu/.

Emergency Loans

Short-term emergency loans are available to students who need assistance in covering tuition and fees and school-related expenses such as books. Detailed information regarding eligibility requirements and the application process can be found in the Business Office.

Veterans Educational Benefits

Veterans Affairs Office

The mission of the Texas A&M University-Corpus Christi Veterans Affairs Office is to assist servicemembers, veterans, and dependents in receiving entitled educational benefits and in achieving educational goals. The Veterans Affairs Office strives to assist active duty servicemembers and veterans with the transition from military to academic life. For more information on educational programs and updates on the Post 9/11 Veterans Educational Assistance Act of 2008, please call (361) 825-2331 or visit the web site http://vets.tamucc.edu.

Enrollment Certification

Certifications for veterans' educational benefits are submitted to the Department of Veterans Affairs, Muskogee, OK. Please visit the Veterans Affairs Office for information on eligibility requirements, applications and forms, and updates on the following benefits:

- Chapter 30 Montgomery GI Bill – Active Duty Educational Assistance Program
- Chapter 1607 Reserve Educational Assistance Program (REAP)
- Chapter 33 Post 9/11 Veterans Educational Assistance Act of 2008
- Chapter 1606 Montgomery GI Bill Selected Reserve
- Chapter 31 Vocational Rehabilitation and Employment Program
- Chapter 32 Post-Vietnam Era Veterans' Educational Assistance Program (VEAP)
- Chapter 35 Survivors' and Dependents' Educational Assistance Program

The applicant must provide a Certificate of Eligibility (COE) from the Dept. of Veterans Affairs showing the benefit has been awarded. A Veterans Intent to Enroll Form is required each term for certification and provides the VA Certifying Official with authorization to submit an enrollment certification on behalf of the student. Students must notify the Veterans Affairs Office of any enrollment changes, to include: added or dropped courses, withdrawals, or change of major. A degree plan from the academic advisor is required for the veteran's file. Texas A&M University-Corpus Christi does not participate in the VA Advance Payment Program.

Hazlewood Exemption

In accordance with the Texas Education Code, Section 54.203, Texas veterans and eligible dependents must apply for benefits under the Hazlewood Act or the Hazlewood Legacy Act each term. An exemption of tuition and fees, with the exception of the student services fee, is granted per term for Hazlewood eligible students, up to 150 cumulative credit hours. Students must submit the application, an original, certified, or notarized copy of the veteran's discharge papers (VA Form DD-214 member 4 copy), and other qualifying documentation, and a letter from the Muskogee, Oklahoma VA Regional Processing Office stating that they have exhausted federal veterans' educational benefits. The Hazlewood file must be completed, and the exemption requested by the census date per term. The number of credit hours a student is registered for on the census date of a given term is the number of Hazlewood credit hours reported for the term to the Texas Higher Education Coordinating Board.

Training Time

Training time for students receiving veterans' educational assistance refers to enrollment status and is defined below. For information on enrollment status requirements for students receiving financial assistance, administered through the Office of Financial Assistance, please review that section of the catalog. The criteria for enrollment status of students receiving financial assistance and training time for Department of Veterans Affairs benefits may differ. Please contact the Veterans Affairs Office to determine training time criteria for the various summer terms.

Graduate Students

Full-time student:	9 hours or more in fall or spring term
	6 hours or more in combined summer terms
Three-quarter-time student:	7 to 8 hours in fall or spring term
Half-time student:	5 to 6 hours in fall or spring term
Less than half-time student:	4 hours or less in fall or spring term
	Reimbursement of tuition and fees only

Academic and Student Services

- New Student Programs
- Academic Advising Center
- Office of Academic Testing
- Center for Academic Student Achievement (CASA)
- Mary and Jeff Bell Library
- Computing Resources
- Transportation Services
- Judicial Affairs
- Student Government Association (SGA)
- Recreational Sports
- University Center and Student Activities (UCSA)
- Disability Services (DS)

- Student Services
- Division of Student Affairs
- Career Services
- Chancellor's Student Advisory Board (CSAB)
- Housing
- University Counseling Center (UCC)
- University Health Center
- Women's Center
- Campus Security Report
- Intercollegiate Athletics
- Office of International Education
- Study_Abroad
- Alumni Relations Office
- Community Outreach

The University provides a variety of academic support services that complement the academic programs and help students reach their educational goals.

New Student Programs

The Office of Student Recruitment and New Student Programs coordinates programs that inform first-year students, transfer students, and prospective students about the educational opportunities available on campus. Examples include New Student Orientation, Transfer Transition Workshops, ESLI and Dual Credit Orientations, and Island Days. New Student Orientations provide first-year students with information regarding academic advising and registration. Advisors assist students in selecting the courses for their first semester at Texas A&M University-Corpus Christi. Parents who 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. Transfer Transition Workshops provide transfer students with an opportunity to gain information, meet with academic advisors, become familiar with the campus, and register for classes. 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. Campus tours are available throughout the year.

The Office of Student Recruitment and New Student Programs is located in the Student Services Center. For additional information, please call (361) 825-6051 or log on to http://tour.tamucc.edu for tours or http://orientation.tamucc.edu for orientation.

Academic Advising Centers

Academic advising centers are housed in each college and staffed by full-time academic advisors. Undeclared/exploratory students are advised through the Islander Transition Center located in the Faculty Cen. Full-time academic advisors are available to assist students with their educational plans, course selections, degree requirements, and other academic matters. Academic advisors support students from the time of their initial enrollment to the successful attainment of their educational goals. An additional feature of the academic advising program is the direct involvement of University faculty as advisors or career mentors. To locate your academic advisor and/or find out more about advising, please call (361) 825-5931 or visit the web site at http://aatc.tamucc.edu.

Office of Academic Testing

The Office of Academic Testing provides testing services for students and the community. Some of the exams administered include the COMPASS, CLEP, LSAT, THEA, the Major Field Test, and correspondence exams. Students are required to take a TSI-(Texas Success Initiative) approved exam (ASSET, ACCUPLACER, COMPASS, or THEA) prior to enrolling in college-level courses. For information on TSI exemptions, see the "Admission" section of the catalog. For information on TExES examinations, see the "College of Education" section of the catalog. Please visit http://testing.tamucc.edu or call (361) 825-2334 for other services provided by this office.

Center for Academic Student Achievement (CASA)

The Center for Academic Student Achievement (CASA) is committed to providing academic support services to help students reach their educational goals and to succeed in the university environment. CASA programs are designed to improve the retention and graduation rates of University students. These academic support services include tutorials, Writing Center, supplemental instruction, mentorship, developmental education, and student retention assistance. Students are encouraged to contact the Center for Academic Student Achievement, located in the Glasscock Student Success Center, at (361) 825-5933 or visit our website at http://casatamucc.edu for hours of operation and schedule of services.

CASA Services

The needs of students coming to CASA are assessed and academic support services are recommended to aid students in reaching their academic goals. The Center's services consist of tutorials in most core subjects, The Writing Center, Supplemental Instruction, mentorship and retention programs, study skills and developmental education (TSI) support. Services are free and available to all A&M-Corpus Christi students. In order to utilize academic support services, a student must be enrolled at A&M Corpus Christi. CASA operates on a walk-in basis.

First Scholars Academy

CASA's First Scholar's Academy (FSA) is a program designed to assist first-time-in-college first generation students through peer and professional staff mentorship. In addition to the FSA mentors assigned to participants, the FSA program assigns volunteer mentors from University faculty and staff in the students' major field.

Islander Success Advocates

The Islander Success Advocate Program is designed to mentor first year students. The Islander Success Advocates are academically successful, upper division, and undergraduate students who are trained to help first year students make a smooth transition while ensuring academic success. For additional information, please contact the Islander Success Advocate Director at 825-5933 or by email at hector.duarte@tamucc.edu.

Starfish Early Alert Warning

Hosted by CASA, Starfish Early Alert Warning and Connect is an early warning alert system for undergraduate students at Texas A&M University-Corpus Christi. The software is designed to assist faculty communicate course progress feedback to students and to help connect students with their "Success Network" comprised of faculty, advisors, mentors and other campus support units.

Supplimental Instruction (SI)

CASA also offers Supplemental Instruction (SI) that is designed to increase student performance and retention. This program targets large entry-level courses and provides regularly scheduled, out-of-class, peer facilitated sessions.

Texas Success Initiative Advising (THEA)

Retention Specialists at CASA help coordinate the Texas Success Initiative. THEA requirements are discussed in the "Texas Success Initiative (TSI)" section of the "Admission" chapter. The Retention Specialists also assist first year students in developing a success plan. For additional information, call the Retention Specialists at (361) 825-2977.

Tutorials

The Center for Academic Student Achievement provides tutorial assistance to students in most core courses on a walk-in-basis. Subjects include mathematics, science, statistics, business, accounting, and reading, among others.

The Writing Center

The CASA Writing Center supports the writing process of all University writers, from freshmen to graduate students. The Writing Center offers face-to-face and online writing consultations as well as faculty-requested writing workshops. Though the Writing Center does accept walk-in sessions based on consultant availability, it is strongly encouraged those seeking assistance schedule an appointment by visiting: http://casa.tamucc.edu/wc.php.

Most sessions are 30 minutes in length for undergraduate writers, and graduate writers are provided with hour-long standing sessions by request. Graduate student seeking hour-long standing appointments can contact the Writing Center Director at 825-5933 or by email at noelle.ballmer@tamucc.edu.

Mary and Jeff Bell Library

For information on library resources and services, see "Mary and Jeff Bell Library" in the catalog section entitled "The University."

Computing Resources

For information on computing resources, see "Campus Facilities" in the catalog section entitled "The University."

Student Services

Division of Student Affairs

The Division of Student Affairs aims to foster a healthy academic climate and professional atmosphere that promotes and encourages student leadership, learning, and growth. Services and programs are designed to meet the needs of students with varied backgrounds and interests. Music, arts, special events, and multicultural programs contribute to a positive experience on campus and promote an understanding of a diverse and changing global community.

The Division of Student Affairs is made up of various departments, including Career Services, Housing, Recreational Sports, University Center and Student Activities, Judicial Affairs, Disability Services, University Counseling Center, University Health Center, and the Women's Center. The Division collaborates with all departments on campus to assist students in the attainment of their personal and academic goals.

A major strength of A38M-Corpus Christi is that students participate in a variety of out-of-class activities. Activities begin with orientation and include a variety of campus organizations and sports clubs that provide a wide range of leadership experiences. Student services are designed to help students attain their desired degrees, learn healthy lifestyles, and attain employment or admission into graduate school. For additional information, see the Student Affairs website at http://studentaffairs.tamucc.edu. The Office of Student Affairs is located in the University Center, Suite 318, (361) 825-2612.

Career Services

The Career Services staff helps students explore, select, prepare for, and actively pursue satisfying employment and careers. The following services are available:

- Career counseling, computer-assisted assessment, and vocational guidance, which help students explore career options beginning in their first semester. Students may meet with a Career Counselor to explore interests and values, with a view toward choosing a career. For students who are experiencing difficulty choosing a major, this can be a useful process of self-exploration.
- Job search and graduate school advisement.
- Student employment services: assistance in finding on- or off-campus employment.
- Internship and co-op placement assistance for students at all levels.
- On-line job listings via Career Services website http://career-services.tamucc.edu.
- Volunteer opportunities listing.
- On-campus recruiting and Job Fairs throughout the year targeted at different majors.
- Electronic resume referral service.
- Career Resource Library and Computer Lab.
- Career seminars, workshops, and Business Etiquette Dinner.
- Videotaped "mock" interviews with trained counselors and professionals.

Career Services is located on the third floor of the University Center in Suite 304. For information, call (361) 825-2628 or visit the website at http://career-services.tamucc.edu.

Chancellor's Student Advisory Board (CSAB)

The purpose of the Chancellor's Student Advisory Board of the Texas A38M University System is to provide representation for the students to the Chancellor and Texas A38M University System leadership, and to educate and stimulate student involvement in student affairs. It is made up of two students from each system institution. Thus, the Chancellor's Student Advisory Board is the official student voice to the system leadership.

Housing

On-campus housing provides students with a special opportunity to develop friendships, participate in group activities, and enjoy the unique island setting of the University.

On-campus housing is managed by Camden Property Trust, a private developer. Camden Miramar apartments and residence halls have several floor plans available, accommodating one, two, or four residents.

Apartments are equipped with a full kitchen, including dishwasher, disposal, refrigerator, range, and built-in microwave oven. All apartments are furnished with a sofa, chair, coffee table, and end table, and each bedroom with a desk, dresser, and twin bed.

Residence halls feature suite-style bedrooms with a shared bathroom and traditional shared rooms with a private bath. Each unit has a micro-fridge (refrigerator, freezer and microwave oven) plus bed and built-in desk. Each floor has a study room, full kitchen, and laundry room.

Rental payments may be made in either a lump-sum disbursement or in monthly installments. Utilities, basic cable service, high speed internet, and local phone service with voice mail are all included.

Recreational, cultural, and educational activities are provided as an integrated part of on-campus housing. Housing staff reside throughout Camden Miramar to assist residents. For more information about student housing, please visit http://housing.tamucc.edu.

In addition, the University has a Director of Housing who serves as a liaison with Camden Miramar and assists students with on- or off-campus housing. Students desiring information about housing may obtain information and an application on the website at http://www.housing.tamucc.edu.

Transportation Services

Any student may ride the Regional Transit Authority (RTA) buses for free of charge by showing his/her Sandollar ID card. For bus route information, go to http://www.ccrta.org or call RTA (361) 289-2600. For more information or to address concerns regarding the service, please contact the Office of Student Affairs at (361) 825-2612.

Judicial Affairs

Judicial Affairs Officers strive to protect the University's educational community and to maintain social discipline through the administration of the *Student Code of Conduct*. Inappropriate behavior will be investigated and adjudicated in a manner consistent with the institution's educational and community development goals. Students may view a copy of the *Student Code of Conduct* at http://judicialaffairs.tamucc.edu.

Student Government Association (SGA)

The Student Government Association (SGA) is composed of the Executive Branch, Class Senators, College Senators, and the Judicial Branch. The SGA President, Vice President, Class Senators and College Senators are elected in the spring semester for a term of one year. Elections for freshman senators are held in September. The Judicial Branch is appointed by the SGA President and approved by the Student Senate. For more information, call (361) 825-5745, or visit us on the website at: http://sga.tamucc.edu.

Recreational Sports

The Recreational Sports program provides facilities, equipment, and opportunities for participation in a wide variety of sports and recreational activities for the University community. The activities range from highly competitive and structured to informal, social activities. A variety of programs are offered including intramural sports, fitness and wellness classes, informal recreation, sport clubs, aquatics, outdoor adventure, and special events.

The Dr. Jack and Susie Dugan Wellness Center includes a gymnasium, free weights, weight machines, cardiovascular exercise equipment (treadmills, elliptical trainers, steppers and bikes), multi-purpose group exercise rooms, and offices for the Recreational Sports Department and Intercollegiate Athletics Department. The adjacent outdoor complex includes multi-purpose playing fields and a 25-yard outdoor seasonal pool.

Each semester Recreational Sports employs students to work as intramural supervisors and officials; lifeguards; facility assistants; and supervisors; group exercise instructors and personal trainers. Work study and non-work study positions are available. No experience is necessary. Training for all positions is conducted or facilitated by the Recreational Sports Department. The Recreational Sports Department Office is located in Room 107 of the Wellness Center opens. For more information, call (361) 825-2454 or go to http://recsports.tamucc.edu.

University Center and Student Activities (UCSA)

The University Center and Student Activities (UCSA) Department strives to provide the campus with opportunities to socialize, learn and develop. The University Center itself serves as the living room of the university, providing table seating, lounge space, a game room and large flat-screen TV's for students, faculty and staff. A number of small to large meeting and event spaces are available for use. The Department is also home to more than 100 student organizations and coordinates a number of special events and activities, such as comedians, concerts, leadership programs and cultural events. UCSA is also one of the largest student employers on campus. For more information, call 825-2707, 825-5202 or visit our website at http://ucsa.tamucc.edu.

Aloha Days: The Freshman Camp Experience

Aloha Days provides incoming first-year students with an optional summer camp experience designed to aid in their successful transition to Texas A38M University-Corpus Christi. Student leaders serve as camp counselors who facilitate activities, discussions, games, and presentations. During Aloha Days, first-year students develop friendships with current students and university staff, learn about the benefits and opportunities for leadership involvement, understand the values of diversity, learn more about themselves, and of the pride in the growing traditions, spirit, and rich heritage of A38M-Corpus Christi. For more information call (361) 825-2707 or visit http://alohadays.tamucc.edu.

Alternative Spring Break (ASB)

During spring break, students travel to work on various community service projects at the host site, including community engagement social services and environmental conservation.

In the past, ASB has traveled to New Mexico for a Habitat for Humanity project and Georgia to the Chattahoochee River National recreation Area and helped with river clean up and trial work. For more information call (361) 825-2707.

Campus Activities Board (CAB)

CAB is responsible for bringing a variety of cultural, educational, recreational and social events to the campus community for free or a low price. Students develop leadership skills while budgeting, planning, marketing, and evaluating each event. For a listing of upcoming events call (361) 825-2363 or visit http://cab.tamucc.edu.

Education through Development, Growth, 38 Experience Leadership Program (EDGE)

EDGE is a unique student leadership development program available for all students. Students involved in EDGE attend seminars, participate in service projects, and learn personal and group leadership skills. For more information call (361) 825-2707 or visit http://edge.tamucc.edu.

Greek Life

Fraternities and sororities are value-driven student organizations based on brother/sisterhood, leadership, service and academic success. They strive to prepare their members for life after college through a variety of social activities, leadership programs, and community service projects. These organizations provide lifelong relationships, networking and volunteer opportunities. For more information call (361) 825-2707 or visit http://greeklife.tamucc.edu.

Islander Cultural Alliance (ICA) 38 Multicultural Programs

A38M-Corpus Christi is a multicultural campus with students, faculty, and staff of various ethnic backgrounds and interests. It is also a place where individuality is encouraged and differences are respected. The Islander Cultural Alliance (ICA) is a student organization that organizes and promotes multicultural programs on campus. The group also concentrates on creating and accepting an inclusive campus environment through cultural awareness and education.

Some events include celebrating Black History Month, Disabilities Awareness Month, Gay, Lesbian, Bisexual, Transgender, Questioning and Allies Month, Hispanic Heritage Month, Women's History Month, and Asian Heritage Month. For more information call (361) 825-2539 or visit http://ica.tamucc.edu.

South Texas Leadership Conference

The South Texas Leadership Conference (STLC) is held each spring semester at Camp Zephyr, located on Lake Corpus Christi. Students from several universities in South Texas attend this 2 ½ day event to enhance their leadership skills and meet other student leaders. Applications are available in late January or early February. There is a small fee to attend this leadership conference. For more information call (361) 825-2707.

Student Publications

Island Waves, the official student newspaper, is produced weekly. All students who enjoy writing, photography, sports or would like to learn more about producing a student newspaper are encouraged to become involved with *Island Waves*. Many volunteers are needed to produce the paper. Several paid positions are also available each semester. For more information call (361) 825-5862 or visit http://islandwaves.tamucc.edu.

Together Islanders Develop Excellence (TIDE)

TIDE is a peer mentor program at A38M-Corpus Christi. This program is designed to give new students personal assistance in transitioning to college life by placing student advocates in each First Year Seminar class. Advocates provide assistance with study skills, time and money management and getting involved on campus and in the community. For information call (361) 825-5937 or visit http://tide.tamucc.edu.

University Council of Student Organizations (UCSO)

The University Council of Student Organizations (UCSO) is a governing body for student organizations and includes representatives from each student organization. UCSO meets monthly to determine policy and funding for over 100 student groups that exist on campus. There are many types of organizations, including: academic, honor societies, special interest, political, faith-based, cultural, professional, and other interest groups. A current list of recognized student organizations is available in the Student Organization Center University Center 204. For more information call (361) 825-3239 or visit http://ucso.tamucc.edu.

Waves of Welcome (WOW)

Waves of Welcome (WOW) is designed to help students become familiar with A38M-Corpus Christi and its traditions. WOW provides an opportunity for students to meet their fellow Islanders, network with faculty and staff, and connect with student leaders. By attending open houses, special programs, meetings, and other activities, students can learn more about the many resources available to help them succeed academically and get the most out of their college experience. The Waves of Welcome schedule is distributed at the beginning of the fall and spring semesters. For more information call (361) 825-2707 or visit http://wow.tamucc.edu.

Disability Services (DS)

Texas A38M University-Corpus Christi is committed to promoting equal opportunities for students with disabilities to access campus facilities, resources, and programs. Support services and reasonable academic adjustments are arranged for students with permanent or temporary disabilities through the Disability Services (DS) Office. The DS Office is located in Driftwood 101.

Students with permanent or temporary disabilities who qualify for support under Section 504 of the Rehabilitation Act and the Americans with Disabilities Act of 1990 must self-identify and register with the Director of the DS Office. To qualify for services students must 1) be admitted to the University 2) present appropriate and current documentation of their disability from a qualified professional and 3) register with the DS Office each semester. Advance planning by the student with the Director or Assistant Director of the DS Office is necessary to ensure adequate time to arrange for appropriate accommodations. It is recommended that requests for services and/or academic adjustments be made as soon as possible. Requests for services requiring extensive preparation (e.g., interpreter services, adaptive and assistive equipment, textbooks in alternate format, etc.) may need up to 30 days to process. For additional information please call (361) 825-5816 or visit the DS website at http://disabilityservices.tamucc.edu.

University Counseling Center (UCC)

The University Counseling Center helps students resolve problems that can interfere with meeting the demands of college life and offers a variety of services for students who want to develop skills and resources to be personally and academically successful. UCC services are funded through the Student Services fee and are available to all currently enrolled TAMUCC students at no additional charge. Counseling Center records are kept strictly confidential and are not released without the student's written permission except under certain legal conditions.

Services include brief individual counseling, academic skills counseling, psycho-educational workshops, limited psychiatry services, alcohol and other drug treatment and education, and consultation. The Counseling Center also offers a Relaxation Room which is a quiet, peaceful space for students to develop and practice relaxation skills that can enhance their academic productivity and their sense of well-being.

Students who are interested in scheduling an appointment for counseling or to use the Relaxation Room can stop by the University Counseling Center for a brief meeting with the Counselor on Duty (COD). The COD will assist the student with scheduling an appointment and/or provide referrals to community resources if needed. Common concerns addressed in counseling include adjustment to college, maintaining healthy relationships, academic pressures, test anxiety, drug and alcohol concerns, family conflicts, anxiety, depression, and multicultural issues. The Counseling Center is located in the Driftwood Building. Hours are Monday through Friday, 8am-5pm. Call 361- 825-2703 or visit our website http://counseling.tamucc.edu for more information.

University Health Center

The University Health Center, located in Sandpiper Hall, assists students in maintaining optimal health while attending Texas A&M University-Corpus Christi. Primary emphasis is on preventive health practices, health education, and the promotion of wellness. Primary health care is provided by registered nurses, family nurse practitioners, and a physician for the care of acute illnesses and minor injuries. Chronic health care needs are referred to local community providers and/or the student's primary care provider. The University Health Center provides a variety of health services such as:

- Telephone medical information service "Ask-A-Nurse-Line" at 361-825-5735
- Women's Health Clinic - Gynecological services
- Men's Health Clinic
- Laboratory testing

- Pharmacy services
- Preventive health care and medical resource information - Referrals for community resources
- Blood pressure screening and monitoring
- Contraception, sexually transmitted diseases (STD), HIV testing, and counseling
- Physicals, vision, and hearing screening
- Substance abuse prevention, assessment, and referral
- Immunizations and tuberculin skin testing
- Educational consultations: nutrition, lifestyle, weight management, smoking cessation, and substance abuse
- Insurance and claim assistance.

Immunizations

Recommended Vaccinations

Students are encouraged to submit immunization records voluntarily in order to assure the availability of a more complete medical record while a student at Texas A38M-Corpus Christi. Student Health Services strongly recommends that every student, and their family members, review our updated list of immunizations most appropriate for university students. This list of recommended vaccines was compiled by the American College Health Association (ACHA) with assistance from the Advisory Committee on Immunization Practices (ACIP) of the Centers for Disease Control and Prevention (CDC).

Bacterial Meningitis

- In accordance with Texas Senate Bill 1107 (SB 62, effective October 1, 2013), Texas A&M University-Corpus Christi (TAMU-CC) requires all new students under the age of 22 to provide certified proof from a health practitioner that they have received a valid bacterial meningitis vaccination or booster within the last five years. Students must submit their proof of vaccination or booster to the TAMU-CC Office of Recruitment and Admissions at least 10 days prior to the first day of class for the intended term of enrollment. Students who fail to submit certified proof of vaccination or a valid booster within the required timeframe will be unable to register for their intended term. Please note, vaccinations older than 5 years will require a booster and all bacterial meningitis vaccinations and boosters must be administered by a health practitioner authorized by law to administer an immunization.
- For medical questions concerning the meningitis vaccination or booster, students may contact the University Health Center Nurse Line at 361.825.5735. For questions regarding document submission and approval, students should contact the Office of Recruitment and Admissions at 361.825.2624.
- For more details, see http://admissions.tamucc.edu/meningitis.html and Important Facts about Bacterial Meningitis.

TAMU-CC Tuberculosis Policy Requirements

TAMU-CC policy requires tuberculosis (TB) screening for newly admitted international students from countries where there is a high incidence of tuberculosis (as designated by the World Health Organization). Students with identifiable risk factors for exposure to TB, or for the TB disease, need to be tested and treated as necessary, to be allowed to register for second semester classes. Before registering for second semester classes, students will be required to provide proof of compliance to the TAMU-CC Health Center. Detailed information about screening and treatment for tuberculosis can be found at the following website: http://www.cdc.gov/tb/.

Students will be required to provide proof of compliance to TAMU-CC Health Center before students are allowed to register for second semester.

Health Insurance

In collaboration with the Texas A&M University System, a private insurance plan is available at special rates to students attending A38M-Corpus Christi. All non-insured students are strongly encouraged to consider the benefits of enrolling in a health insurance program. Information brochures regarding this health plan are available in the University Health Center or at http://tamucc.myahpcare.com.

Women's Center

The Women's Center for Education and Service has been helping the women of Texas A38M University-Corpus Christi since 1995. The Center works to improve the well-being of the women faculty, staff, and students where they live, work, and learn. The Women's Center continues the tradition of support, education, and advocacy by creating and sponsoring programs for the University community.

The Women's Center proactively works to enhance knowledge and awareness of gender issues at Texas A38M University-Corpus Christi by assisting in university efforts to create a diverse, inclusive, and sensitive campus environment. The Center extends education, provides services, and promotes the development of every woman's potential. It also serves as a safe haven for women to voice their concerns and a support system as they seek equity. The Women's Center collaborates with the Women's Shelter of South Texas, the YWCA Corpus Christi, and Planned Parenthood of South Texas. For more information about our programs and services, please refer to our website at: http://healthcenter.tamucc.edu/health services/womens-services.html.

Campus Security Report

Click here to view the university crime log.

Intercollegiate Athletics

After a 25-year absence from athletic competition, Texas A38M University-Corpus Christi has reinstated Intercollegiate Athletics. Implementation of the sports programs began in the fall of 1998 and was completed in the fall of 2001. Additionally, the university became an official NCAA Division I participant in 2002. Athletic teams at A38M-Corpus Christi are known as the "Islanders," and the official school colors are blue, green, and silver.

Islander Athletics sponsors 14 sports programs: eight women's sports and six for men. Women's sports include tennis, golf, basketball, softball, volleyball, cross country, and indoor and outdoor track and field. Men's sports include tennis, basketball, baseball, cross country, and indoor and outdoor track and field.

In 2006, A38M-Corpus Christi became a full-fledged member of the Southland Conference, an event marking a milestone in the annals of Islander Athletics. Consequently, for the first time in its athletic history, the Islanders can play for regular and post-season conference championships and automatic NCAA Tournament appearances. For more information on Islander Athletics, please call (361) 825-5541.

Office of International Education

The Office of International Education (OIE) was established to support all international students on campus as well the study abroad programs. The OIE serves English as a Second Language International (ESLI) students and those who are enrolled in the university as undergraduate or graduate students. The OIE holds social and informative events for the international population at A38M-Corpus Christi. For more information contact the Office of International Education at (361) 825-3922, visit the office in CCH 126, or visit the website at http://oie.tamucc.edu/.

The OIE invites international and domestic students as well as faculty, staff and community members to participate in all activities organized by and services provided by this office. We promote cross-cultural interactions through educational, social, and cultural programs and facilitate the adjustment of the international students to their new environment.

Study Abroad

Texas A38M University-Corpus Christi (TAMU-CC) is committed to providing access to international education opportunities for all students.

TAMU-CC is dedicated to creating an inclusive community and establishing collaborative relationships across cultures. TAMU-CC aspires to enrich and educate without exclusion and foster responsible global citizenship. The Office of International Education (OIE) through Study Abroad Programs (SAP) promotes international learning environments that embrace diversity. The mission of the Study Abroad Programs is to provide a variety of educational experiences abroad, be it through faculty-led programs, reciprocal exchange agreements, independent programs, or by participating in the Texas A38M University System (TAMUS) Study Abroad partnership programs. The TAMUS Transient Study Abroad Programs allow A38M System students to participate in system-wide study abroad programs.

Faculty-led Programs

These programs are credit-bearing, international study-travel courses. They are led by one or more University professors and usually last between one to five weeks. Students travel as a group to one or more international locations, where there is a mix of lectures, exercises, assignments, excursions, cultural encounters, and free time. There are certain programs that are open only to students in a particular college, while others are open to all A38M System students.

Reciprocal Agreements

A reciprocal exchange involves an agreement between two universities to exchange students. Tuition and fees are paid at the home university while studying at the host university. When a student participates in a reciprocal exchange, the student remains enrolled at the home university, allowing students to receive credit. Proficiency in the language of the host country is required; however, some programs are available in English speaking countries.

Independent Programs

Students have the option to apply directly to an international university, or apply to an institute or organization, or to a sponsoring U.S. University. Graduate students may conduct research abroad coordinated by a TAMU-CC faculty member.

Funding for Study Abroad Programs

Students who receive federal financial aid for on-campus study may use their aid for study abroad. Financial Aid counselors work with each individual student to ascertain their eligibility and give students accurate information. The University also offers the International Education Scholarship to all students meeting the general requirements. There are prestigious national grants and scholarships specifically for study abroad including Boren Awards for International Study, Benjamin A. Gilman International Scholarship, Gilman International Scholarship, and Fulbright Scholarship.

How to get involved

For information and applications for faculty-led, reciprocal exchange, independent programs, study abroad scholarships, please visit the Study Abroad Programs website http://oie.tamucc.edu/sap.php. For more information, please contact:

Texas A38M University-Corpus Christi

Study Abroad Programs

Corpus Christi Hall 126-B

Corpus Christi, TX 78412-5780

(361) 825-2789

Fax (361) 825-2223

study.abroad@tamucc.edu

Alumni Relations Office

The Texas A38M University-Corpus Christi Alumni Association exists to strengthen and promote the interests and welfare of A38M-Corpus Christi through the lifelong commitment and support of its alumni and friends. Through a variety of actions, events, services and communications, the Association promotes positive interaction between the University and its alumni.

The Alumni Association considers as members all graduates from this institution during its history, whether as the University of Corpus Christi, Texas A38M University at Corpus Christi, Corpus Christi State University and Texas A38M University-Corpus Christi. Active membership is granted to individuals who donate to the University's Islander Fund Campaign. Gifts to the Annual Fund enhance the current academic programs on campus.

Alumni Association members receive several benefits, including membership in Islander clubs, subscription to the Islander magazine, participation in Alumni Association affinity programs, and access to an interactive alumni Web site.

All members of the Alumni Association are encouraged to submit updated information about their personal and professional lives as well as address and phone number corrections. Updated information allows the Alumni Association to keep in contact with its members.

The Alumni Association assists the Student Foundation Association, a student group dedicated to building strong future alumni through a variety of special events and projects. The Student Foundation Association sponsors the Walk of Recognition, and Islander Revue. Funds raised from these projects go toward building the Leadership Scholarship Endowment.

For additional information about the Alumni Association or alumni matters, contact the Alumni Office at (361) 825-5787, visit the Alumni Office in the Lee Alumni Welcome Center, or go to the Alumni Association's Web site at www.islandernetwork.com. The Alumni Office's toll free number is (877) 482-6822 or (877) 4-TAMU-CC. To update address or telephone records, call the Advancement Services Office at (361) 825-2420 or go to the above Web site. Students who are interested in joining the Student Foundation Association should call (361) 825- 5558.

Community Outreach

Texas A38M University-Corpus Christi is committed to meeting the life-long educational needs of citizens throughout South Texas. The mission of Community Outreach is to educate and serve the community by extending A38M-Corpus Christi beyond the campus.

Community Outreach accomplishes its mission by providing a wide variety of services to a diverse group of citizens and organizations. It offers continuing education, professional development, personal enrichment, test preparation, business assistance, custom training, conference and event management, and youth programs. Through the Pollution Prevention Partnership, Community Outreach delivers nationally recognized environmental education and outreach programs, including compliance assistance, health research, vehicle emissions monitoring, teacher education, and community education.

Community Outreach also supports A38M-Corpus Christi's service mission by facilitating community engagement activities where faculty and students assist non-profits, government agencies, businesses, and other organizations.

To increase available resources, Community Outreach maintains cooperative relationships with other institutions and agencies of The Texas A38M University System, as well as a wide variety of community service organizations.

Additional information on specific Outreach programs is available at outreach.tamucc.edu.

Undergraduate Programs

This section focuses on the general requirements for the baccalaureate degree and on academic policies and regulations that apply specifically to undergraduate students. For information on core curriculum requirements, see "University Core Curriculum Programs " in the catalog. For information on the Texas Success Initiative, see "Admission." For information on specific majors and on college baccalaureate requirements, please refer to the chapters on specific colleges.

Bachelor's Degrees

The University offers the following undergraduate degrees: Bachelor of Applied Science, Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Music, Bachelor of Business Administration, Bachelor of Science in Health Sciences, Bachelor of Science in Interdisciplinary Studies, and Bachelor of Science in Nursing.

Degree Requirements

University Minimum Requirements

General University requirements for baccalaureate degrees are:

Total Hours

A minimum of 120 semester hours of credit must be completed successfully. Some curricula or combinations of fields may require more.

Upper-division Hours

A minimum of 45 semester hours of upper-division credit (courses numbered in the 3000 and 4000 series) is required.

Grade Point Average

A minimum grade point average of 2.0 (C) on a 4 point scale in all work taken and a minimum grade point average of 2.0 in the major field of study at the University are required. Specific academic programs may require a higher grade point average in the major.

Residence Requirement

A minimum of 36 hours of upper-division course work required for graduation must be successfully completed in residence at Texas A&M University-Corpus Christi to obtain a baccalaureate degree. A minimum of 12 hours of these 36 hours must be in the major. Hours earned through credit by examination may not be used to fulfill the residence requirement. Hours earned through credit by examination at another institution will likewise not affect the residence requirement calculation.

General Education Requirement

To fulfill the general education requirement, a student must successfully complete the University core curriculum (or the equivalent as described below) and meet the foreign language requirements. In addition, all students who enter the University as full-time, first-year students must complete the First-Year Seminar requirement.

Core Curriculum Program

The 42-hour Core Curriculum Program, described in the "University Core Curriculum Programs " section, includes courses that satisfy the state statutory requirements for core curricula and the state statutory requirements in history and in government or political science. (To receive a bachelor's degree, a student must have successfully completed 6 semester hours in government or political science, including consideration of the U.S. Constitution and state constitutions, with special emphasis on that of Texas. Additionally, the student must have credit for 6 semester hours in American history, of which up to 3 hours may be in Texas history.)

Undergraduate transfer students have several means of fulfilling the core curriculum requirement.

1. A student may satisfy specific core curriculum requirements by taking the approved core curriculum transfer courses that are listed in Appendix B. Courses equivalent to A&M-Corpus Christi's Core Curriculum Program courses are identified by their common course numbers.
2. If a student successfully completes a core curriculum of 42 or more semester credit hours at another regionally accredited public institution of higher education in Texas, and that core curriculum meets the specified "Foundation Component Area" requirements below, that block of courses may be transferred to the University and satisfy the core curriculum here. The student will not be required to take any additional core curriculum courses at this institution. The State of Texas has specified the following Foundational Component Area requirements:
    - 6 Credit Hours Communication
    - 3 Credit Hours Mathematics
    - 6 Credit Hours Life and Physical Sciences
    - 3 Credit Hours Language, Philosophy, and Culture
    - 3 Credit Hours Creative Arts
    - 6 Credit Hours American History
    - 6 Credit Hours Political Science
    - 3 Credit Hours Social and Behavioral Science

6 Credit Hours Component Area Option

3. If a student transfers from another regionally accredited public institution in Texas without having completed a 42 or more semester credit hour core curriculum, A&M-Corpus Christi will accept approved core curriculum courses from the transferring schools' core curricula as fulfillment of the equivalent requirement here.
4. A student who transfers from a regionally accredited private or out-of-state institution will receive academic credit for each of the acceptable courses that he or she has successfully completed in the core curriculum of the sending institution as long as these courses meet the state of Texas criteria for core curricula. Following receipt of credit for these courses, the Office of Admissions will determine the equivalency of those courses to the courses in A&M-Corpus Christi's core curriculum. Core curricula completed at regionally accredited private or out-of-state institutions will be evaluated on a case by case basis.

For further clarification see "Transfer Credit Policies" in the "General Academic Policies and Regulations" section of the catalog.

First-Year Seminar Requirement

All students who enter the University as full-time first-year students are required to register for First-Year Seminar, UCCP 1101 and UCCP 1102, as part of a Tetrad or Triad. (See the "University Core Curriculum Programs " section of the catalog.) Those who fail to complete this requirement during the first year will be required to fulfill the requirement prior to graduation.

Foreign Language Requirement

At least two high school credits in one foreign language or American Sign Language OR two semesters of study with passing grades in a single foreign language or American Sign Language at the college level are required for graduation from Texas A&M University-Corpus Christi. This requirement may be met by earning a CLEP, AP, or ACTFL score equivalent to one year of college-level foreign language study. If students decide to meet this requirement by taking two semesters at the University, an assessment test must be taken prior to registering in order to be placed in the appropriate language course. Information regarding the assessment tests and the foreign language courses that satisfy the university Foreign Language Requirement can be obtained from the College of Liberal Arts "Baccalaureate Degree Requirements" section of the university undergraduate catalog.

International students who have successfully passed the Test of English as a Foreign Language (TOEFL) with a score of 550 or higher or have successfully completed the English as a Second Language International (ESLI) course of study may elect to choose English as their second language to meet the above requirement. Additionally, international and naturalized students who have provided proof of completion of high school in a foreign language (their native language) and who have successfully completed the English Composition and Oral Communication components of the University Core Curriculum Program may choose English as their second language to meet this requirement. English is considered to be the first language for all other students.

College Degree Requirements

In addition to the University requirements, a student must meet the specific requirements as determined by the college in which the degree will be awarded. Such requirements are outlined in the college sections of the catalog.

Second Bachelor's Degree

Students wishing to earn a second bachelor's degree from Texas A&M University–Corpus Christi must complete a minimum of 144 semester hours of credit, or 24 hours more than those counted toward the bachelor's degree that requires the higher number of credit hours. All university, college, and major requirements must be met for each degree (see the information on degree requirements in this chapter and in the sections for the relevant college and major). Students must complete all degree requirements under a particular catalog (see "Graduation Under a Particular Catalog" in the "Academic Policies" section of the catalog).

As for any student intending to have a degree conferred, students seeking multiple degrees who plan to participate in a graduation exercise and/or receive a diploma must notify the Office of the University Registrar by the deadline date indicated in the Class Schedule for the semester in which they plan to have the degree or degrees awarded.

For students who have already completed a first bachelor's degree at an accredited college or university, with the approval of the Provost's Office, the core curriculum requirements for that degree may be accepted in lieu of the Texas A&M-Corpus Christi core curriculum. However, requirements associated with particular degrees, e.g., completion of the modern language requirement for a Bachelor of Arts degree, or Legislative requirements, e.g., history and government course requirements, must be included in an approved program for a second bachelor's degree.

Academic Major

A minimum of 24 semester hours in a defined course of study must be completed for a major. Specific majors may require completion of additional hours. See the college sections of the catalog for the specific requirements of particular majors.

Double Major

Colleges may provide the opportunity for a student to earn a double major while working toward his or her first undergraduate degree. Both majors must lead to the same baccalaureate degree (e.g., BA, BS, or BBA). A student who completes the requirements for a degree with a double major will be awarded ONE degree (with both majors indicated) and will receive ONE diploma. Because only one degree is granted for the double major, students must have completed the requirements for both majors before the degree can be awarded. Students wishing to pursue a double major must satisfy the following conditions:

- Meet all university and college requirements for each major,
- Successfully complete departmental requirements in each major (if the majors are in the same college) or successfully meet the major field of study requirements for each program as determined by each college (if the majors are in different colleges).

Academic Minor

To earn an academic minor, a student must meet the requirements mandated by the college offering the minor. At least 18 semester hours will be required in the area of the minor (excluding prerequisites); the maximum number of hours will be limited to 23. At least 6 hours of upper-level courses will be included. At least 9 semester credit hours in the area of the minor must be completed in residence at Texas A&M University-Corpus Christi. The student must complete all prerequisites for required courses and must maintain a grade point average of at least 2.00 on a 4-point scale. Colleges may set higher GPA requirements.

The following rules apply regarding graduation with a minor:

1. A student may count the same course for both major and minor requirements.
2. After applying for graduation, if a student fails to complete the requirements for the minor but meets the requirements for graduation, the student will be graduated without the minor.
3. A student may graduate with more than one minor if he or she meets all the requirements.

A student who holds a bachelor's degree from the University and who wishes to complete requirements for a minor may do so by completing all course work in the minor and by fulfilling any other requirements mandated by the college offering the minor

within five years of graduation. A notation indicating that all requirements for each minor have been completed will be added to the Texas A&M University-Corpus Christi transcript; the transcript *will not state* that a minor has been *awarded*. If the requirements for a minor are satisfied following degree conferral, credits earned during the satisfaction of the minor have no effect on the GPA of the previously awarded degree.

Addition of a Major

A student who holds a bachelor's degree from the University and who wishes to complete requirements for an additional major within the same degree may do so by completing all course work in the major field with a minimum GPA of 2.00 on a 4-point scale, and by fulfilling any other requirements mandated by the college offering the major.

A notation indicating that all requirements for each major have been completed will be added to the student's transcript. The transcript *will not state* that a major has been *awarded*.

Academic Policies and Regulations

Recency of Credit

No restriction on recency of credit is made for undergraduate work. Lower-division and transfer hours applied toward the baccalaureate degree should provide those competencies necessary for entry into the upper-division level.

Correspondence and Extension Credit

No more than 15 semester hours of extension-center and correspondence study credit may be applied toward a bachelor's degree. Not more than 6 semester hours of this 15 may be in correspondence study. No more than 6 semester hours of upper-division extension and correspondence credit may be applied toward a degree. All work transferred is subject to approval, as suitable for the student's degree plan, by the student's college dean or designee.

Placement Process

New undergraduates and transfer students are placed into mathematics classes on the basis of their scores on standardized tests (SAT, ACT, STAAR, etc), their high school record, or their previous college level mathematics credits. Consult the placement link on http://math.tamucc.edu for details. Students not designated as College Ready in mathematics, must take the TSI Assessment. Students who are College Ready in mathematics, but don't have test scores or math grades in their records, or those hoping for a higher mathematics placement may take a challenge exam offered regularly by the Department of Mathematics and Statistics. Call 825-3754 for details and to schedule taking the exam.

For brief information on the foreign language placement test, see "Foreign Language Requirement" earlier in this chapter.

Maximum Course Load

An undergraduate student may not register for more than 18 hours of course work in a regular semester, or more than 6 hours of course work in a single session of summer school, without the approval of the appropriate administrator:

1. For a student with 30 or more semester credit hours and a declared major, the request must be approved by the dean of the college in which the student is majoring.
2. For a student with fewer than 30 semester credit hours, or for a student with 30-59 semester hours but without a declared major, the request must be approved by the Director of the Islander Transition Center. Also, a student who is required to pass the THEA or approved alternative examination, and who has not yet done so, must have the approval of the Director of the Islander Transition Center to register for more than the maximum course load.

Repetition of a Course

Undergraduate students may repeat courses at the University under the following circumstances:

1. Courses specifically designated as repeatable for credit in the Undergraduate Catalog (such as variable topic courses) are calculated in the grade point average in the same manner as separate courses.
2. Undergraduate students may also repeat any undergraduate course at the University in order to replace a grade. Only the last grade will count to calculate the Texas A&M University-Corpus Christi grade point average. This procedure will be used in the calculation of GPA from this point forward for all students. A notation will be placed on the transcript after the course to indicate that it has been repeated. In the case of repeats, grades are included in computing the A&M-Corpus Christi hours attempted. Except as noted above in #1, a student may not receive credit for any given course more than once. The Office of the University Registrar conducts audits of student records as needed and prior to graduation. When repeating a course more than once, the student should seek advice from his or her college dean, faculty mentor, or academic advisor, as appropriate, prior to registering for the course. Students may be charged an additional fee for each course taken for the third or more times. (See "Tuition and Fees" for details.)
3. Once a student has been awarded a degree at the University, he or she may not repeat a course for the purpose of changing the grade on the official transcript of any course taken as part of that degree.

Scholastic Probation, Suspension, Dismissal

Scholastic Probation and Removal from Probation. An undergraduate student whose cumulative A&M-Corpus Christi grade point average (GPA) falls below 2.0 on academic work done at the University is placed on scholastic probation. A student is removed from scholastic probation after completing a semester or summer term at A&M-Corpus Christi during which a cumulative grade point average of 2.0 or greater is achieved.

Suspension. A student who is on scholastic probation and who fails to make a minimum GPA of 2.0 for any semester or term is placed on academic suspension. A student suspended for the first time may not enroll at the University for the next long-session semester (fall or spring) and any intervening summer session. A student suspended for the second time will be suspended for one year. After a first or second suspension, a student may re-enroll on probationary status. The student must achieve a minimum GPA of 2.0 for that and all subsequent semesters and terms until a minimum cumulative GPA of 2.0 is attained. A student who does not attain this GPA is placed on suspension again. Under extraordinary circumstances, academic suspension is appealable to the student's academic dean.

Dismissal. A third suspension results in dismissal from the University. In most cases, a student who is dismissed because of three suspensions is not readmitted to the University. The student may, however, petition for a review of the case after a period of two calendar years. Information on procedures may be obtained from the Office of the University Registrar. Readmission is permitted only in exceptional circumstances and if authorized by the dean of the college to which admission is sought. If the student does not attain the required GPA (as described above) after such readmittance, the student is dismissed and may not petition for readmission for a period of a minimum of five calendar years.

Academic Progress of Students on "Probationary Admission" Status

If a first-time, first-year student is admitted on "Probationary Admission" status, certain conditions will apply. While on probationary admission status, the student must remain a part-time student, taking no more than 2 courses each semester. The student's progress will be monitored at the end of each term, with a GPA of 2.0 or better required for continued enrollment each semester while on probationary status. In addition, the student may not earn a grade of D or F in any remedial course attempted while on probationary status.

The courses the student will attempt while on probationary status will be determined by A&M-Corpus Christi placement results, THEA scores (or scores on an accepted alternative examination), and the recommendation of the assigned academic advisor. All course work while a student is on probationary status will be chosen from remedial offerings and the core curriculum. After completing 12 semester credit hours of non-remedial coursework with a GPA of 2.0 or better, and having earned no grade of D or F in any remedial course attempted, the student will become a regularly admitted student, with all the rights and responsibilities of that status.

Graduation with Honors

To be eligible to graduate with honors, a student must have completed at least 45 undergraduate semester hours at Texas A&M University-Corpus Christi. If students have not yet completed 45 undergraduate semester hours at Texas A&M University-Corpus Christi they must be enrolled in enough hours to fulfill the 45-hour requirement by the end of the term. The cumulative A&M-Corpus Christi grade point average is used to determine honors status. The cumulative grade point average is calculated on all courses taken at A&M-Corpus Christi, excluding courses taken pass/no pass or credit/no credit. A student may graduate summa cum laude with a grade point average of 3.9 or above. A student may graduate magna cum laude with a grade point average of 3.70 through 3.899. A student may graduate cum laude with a grade point average of 3.5 through 3.699. To be recognized at one of these levels at the Commencement Ceremony, students must have earned the appropriate grade point average and completed 45 undergraduate semester hours at Texas A&M University-Corpus Christi by the end of the semester immediately preceding the one in which they will graduate. This honor designation will be used in the commencement ceremony and will be recalculated once all grades are received and processed.

The Islander Impact Initiative

The Islander Impact Initiative is an effort by the University to expose students to a minimum number of high impact practices (two for transfer students and four for first-time-in-college students) during their career at Texas A&M University-Corpus Christi. The American Association of Colleges & Universities (AAC&U) has identified a set of "effective educational practices" that research has found have a positive effect on students. These practices have been termed "high impact practices" and include: first-year seminars and experiences, common intellectual experiences, learning communities, writing-intensive courses, undergraduate research, collaborative assignments and projects, diversity and global learning, service learning and community-based learning, internships, and capstone courses and projects (AAC&U, 2008). The initiative will ensure that students are provided with a challenging, learning-centered environment that promotes innovation, creativity, and discovery.

Dean's List

All undergraduate degree-seeking students registered for a minimum of 12 semester hours at the University (excluding hours where standard letter grades are not used) who complete all work registered for and who have a 3.65 grade point average or above for a regular semester will be placed on the Dean's List.

Graduate Study by Undergraduates

1. *Reservation of Work for Graduate Credit*
   A senior student in the last term of undergraduate work may enroll in graduate work and reserve the course work for graduate credit provided that

1. the student has a cumulative grade point average of 3.0 or better,
2. the dean of the college in which the work is offered has granted written approval, and
3. the graduate work is not used to fulfill undergraduate degree requirements.

2. *Graduate Work for Undergraduate Credit*
   A senior student in the last semester or summer session of undergraduate work may enroll in graduate work to be applied toward the baccalaureate degree provided that
   1. the student has a cumulative grade point average of 3.0 or better,
   2. the dean of the college in which the work is offered has granted written approval,
   3. the chair of the student's major department and the dean of the student's undergraduate college have granted written approval, and
   4. the student has not reserved the course work for graduate credit.

Graduate credit hours used to meet the requirements of a baccalaureate degree may not be used to meet the requirements for a graduate degree.

Catalog Subject to Change

The catalog was prepared well in advance of its effective date. While every effort has been made to provide complete and accurate information regarding undergraduate programs, changes may occur at any time, without notice, in academic requirements or policies.

University Core Curriculum Programs

- University Core Curriculum Program
- Core Curriculum Program Courses
- The First-Year Learning Communities Program
- First-Year Seminar
- First-Year Seminar Course Descriptions
- Transfer Students and the University Core Curriculum Programs

University Core Curriculum Programs

The Core Curriculum Program and the First-Year Learning Communities Program together make up the University Core Curriculum Programs.

Overview of University Core Curriculum

The Core Curriculum Program (the Core) is a 42-semester-hour program of study that is required of undergraduates to ensure that students will develop the essential knowledge and skills they need to be successful in college, in a career, in their communities, and in life.

Each course in the Core has been reviewed and approved on the basis of its potential to contribute to the achievement of the following **six core objectives**.

· Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

· Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication

· Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

· Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

· Personal Responsibility - to include the ability to connect choices, actions and consequences to ethical decision-making

· Social Responsibility: to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Core Curriculum Program Courses

Core curriculum courses are organized according to the Foundational Component Areas are listed below.

Communication (6 semester hours)

ENGL 1301 - Composition I*

ENGL 1302 - Composition II*

Mathematics (3 semester hours) - Select one from:

MATH 1314 - College Algebra

MATH 1324 - Business Mathematics

MATH 1325 - Business Calculus

MATH 1442 - Statistics for Life

MATH 2413 - Calculus I

PHIL 2303 - Introduction to Logic and Critical Thinking

Life and Physical Sciences (6 semester hours) - Select two courses from:**

BIOL 1308 - Science for Life I (Non-Majors Biology)

BIOL 1406 - Biology I

BIOL 1407 - Biology II

BIOL 2401 - Anatomy and Physiology I

BIOL 2402 - Anatomy and Physiology II

BIOL 2420 - Principles of Microbiology

CHEM 1305 - Introductory Chemistry

CHEM 1411 - General Chemistry I

CHEM 1412 - General Chemistry II

ESCI 1401 - Environmental Science I: Intro to Environmental Science

GISC 1301 - Physical Geography and Mapping

GEOL 1303 - Essentials of Geology

GEOL 1403 - Physical Geology

GEOL 1404 - Historical Geology

PHYS 1303 - Introduction to Astronomy: Stars and Galaxies

PHYS 1304 - Introduction to Astronomy: Solar System

PHYS 1401 - General Physics I

PHYS 1402 - General Physics II

PHYS 2425 - University Physics I

PHYS 2426 - University Physics II

Language, Philosophy and Culture (3 semester hours) - Select one from:

ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance

ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present

ENGL 2334 ENGL 2334 - Themes and Genres in English Literatures ENGL 2334 - Themes and Genres in English Literatures

ENGL 2335 ENGL 2335 - Themes and Genres in the Literatures of the Americas

PHIL 1301 - Introduction to Philosophy

PHIL 2306 - Foundations of Professional Ethics

SPAN 3307 - Spanish Literature I

SPAN 3308 - Spanish Literature II

SPAN 3309 - Spanish American Literature I

SPAN 3310 - Spanish American Literature II

Creative Arts (3 semester hours) - Select one from:

ARTS 1301 - Art and Society

ARTS 1303 - Art History Survey I

COMM 1305 - Film and Culture

MUSI 1306 - Understanding and Enjoying Music

MUSI 1307 - Elements of Musical Style

THEA 1310 - The Art of the Theatre

American History (6 semester hours)**

HIST 1301 - U.S. History to 1865**

HIST 1302 - U.S. History Since 1865 **

Government/Political Science (6 semester hours)

POLS 2305 - U.S. Government and Politics

POLS 2306 - State and Local Government

Social and Behavioral Sciences (3 semester hours)

PSYC 2301 - General Psychology

SOCI 1301 - Human Societies

Component Area Option (3 semester hours)

COMM 1315 - Public Speaking

Component Area Option (3 semester hours)

ECON 2301 - Macroeconomics Principles

ECON 2302 - Microeconomics Principles

The Core includes 42 hours. Some degree plans, however, require the selection of Core courses that may lead up to 3 additional hours (for example, courses with credit labs).

* Students should complete ENGL 1301 and ENGL 1302 early in their academic careers at the very latest, by the end of the sophomore year. Students who transfer into the University without equivalent credit should complete these courses as soon as possible.

** Students may take HIST 3331 - Texas History for either HIST 1301 - U.S. History to 1865 or HIST 1302 - U.S. History Since 1865. Texas History is a 3000-level course, and is recommended only for juniors and seniors.

The First-Year Learning Communities Program

As part of the First-Year Learning Communities Program, all full-time A&M-Corpus Christi students are expected to enroll, in each of their first two semesters, in specially selected groups of 3 or 4 classes known as Triads and Tetrads.

The students and teachers within each Triad or Tetrad form a learning community. The same group of students takes all of the classes within a given Triad or Tetrad together, which gives them many opportunities to work together, get to know each other, and learn together. The teachers in each learning community also work with each other to develop connections among the classes.

All of the Triads and Tetrads include a First-Year Seminar (UCCP 1101 or UCCP 1102) and a First-Year Writing class (ENGL 1301 or ENGL 1302). These are small classes of 25 students or fewer. In addition, Triads include a large lecture class (such as History or Sociology), and Tetrads include two large lecture classes. The classes within each Triad (or Tetrad) are "linked," in the

sense that students enroll in all three classes (or four classes in a Tetrad) at once. For example, students might enroll in a Triad that includes:

First-Year Seminar

UCCP 1101 - First-Year Seminar I.*

OR

UCCP 1102 - First-Year Seminar II.*

English Composition

ENGL 1301 - Composition I

OR

ENGL 1302 - Composition II

U.S. Government and Politics

POLS 2305 - U.S. Government and Politics

A Tetrad that the University frequently offers consists of the following courses:

First-Year Seminar

UCCP 1101 - First-Year Seminar I.*

OR

UCCP 1102 - First-Year Seminar II.*

English Composition

ENGL 1301 - Composition I

OR

ENGL 1302 - Composition II

Biology I

BIOL 1406 - Biology I

General Chemistry I

CHEM 1411 - General Chemistry I

First-Year Seminar

First-Year Seminar (FYS) is a two-semester course sequence required of all full-time first-year students. As the central component of a learning community, Seminar helps students achieve success, academically and socially, as they make the transition to the university. Seminar provides students with opportunities for meaningful interactions with faculty and peers about substantive matters as well as timely, constructive feedback about their learning. Students are immersed in an active learning environment with a purposefully integrated and contextualized curriculum, fostering the development of transferable skills and engaging them in the academic community. In UCCP 1101, students are introduced to college level work and responsibilities, and provided with appropriate support and resources to navigate their first semester. The goal of UCCP 1102 is for students to participate in academic discourse and take ownership of their education in preparation for their future coursework and careers.

First-Year Full-time students. First Year full-time students are required to enroll in a First-Year Seminar during each of their first two semesters. First-Year students are those who have never attended any college. This includes students enrolled in the fall term who attended college for the first time in the prior summer term. It also includes students who entered with advanced standing (college credits earned before graduation from high school).

Transfer students. Transfer students who become full-time A&M-Corpus Christi students after having completed less than 12 semester hours are required to take UCCP 1101 and UCCP 1102. Students who become full-time A&M-Corpus Christi students after having completed 12-23 semester hours are required to take only one First-Year Seminar. They may take either UCCP 1101 or UCCP 1102. Students who become full-time A&M-Corpus Christi students after having completed 24 or more semester hours are exempt from the First-Year Seminar requirement.

Course Objectives

The objectives of UCCP 1101/1102 are to advance the six intellectual and practical skills defined by the Texas Core Curriculum:

- Critical Thinking Skills
- Communication Skills
- Empirical and Quantitative Skills
- Teamwork
- Social Responsibility
- Personal Responsibility

Student Learning Outcomes*

UCCP 1101

Reflect and integrate learning from learning community courses, including development of critical thinking skills, social and/or personal responsibility.
Interact with faculty and peers about substantive matters through daily activities and discussions.
Demonstrate competence of knowledge related to the learning community discipline(s) in a public forum.

UCCP 1102

Reflect and integrate learning from learning community courses, including development of critical thinking skills, social and/or personal responsibility.
Interact with faculty and peers about substantive matters through daily activities and discussions.
Discover relevance of learning in the learning community through real-world applications.

First-Year Seminar Course Descriptions

UCCP 1101 - First-Year Seminar I.

UCCP 1102 - First-Year Seminar II.

Transfer Students and the University Core Curriculum Programs

Transfer students may contact a transfer counselor in the Islander Transition Center, located in the Faculty Center, or call (361) 825-5931 for general transfer information. Transfer students who have not officially declared an academic major may receive academic advising from the Islander Transition Center. Students who have declared a major will be advised through their college's academic advising center.

For a list of transfer courses that will fulfill specific Core requirements, please see the appendix entitled "Lower-Division Transfer Courses: Common Courses."

Students transferring credit hours to A&M-Corpus Christi from other institutions may have various means of fulfilling the Core requirement.

Honors Program

Honors Program

The Honors Program at Texas A&M University-Corpus Christi offers an enriched plan of study to highly motivated students who have the capacity to excel academically and a strong and abiding determination to reach their greatest intellectual potential. Success in the Honors Program requires an exceptional commitment from students and faculty alike. Honors students are challenged with innovative, participatory, collaborative, and rigorous learning experiences in a community of motivated scholars. Honors faculty provide discipline-specific and interdisciplinary instruction, personal mentoring, and collaborative extra-curricular opportunities. Students and faculty have a unique opportunity in the Honors Program to develop their interests, skills, abilities, and potential. The goals of the Honors Program are to:

- □□□□□□□□ Attract, retain, and graduate a diverse population of students;
- □□□□□□□□ Inspire students to excel beyond their expectations;
- □□□□□□□□ Enable students to develop their fullest possible intellectual potential;
- □□□□□□□□ Set high standards for academic performance;
- □□□□□□□□ Promote interaction with the world beyond the university;
- □□□□□□□□ Attract, retain, and develop a diverse population of talented faculty teacher-scholars;
- □□□□□□□□ Further faculty commitment to scholarship and instruction; and,

- □□□□□□□□ Recognize the accomplishments of students and faculty.

Specifically, graduates of the Honors Program are expected to be:

- □□□□□□□□ Expressively sophisticated in oral and written communication;
- □□□□□□□□ Analytically skilled in argument and problem-solving; and,
- □□□□□□□□ Technically adept at deploying formal and mathematical tools.

As a result of their mastery of the distinctive and challenging honors curriculum, graduates of the Honors Program will also be disposed to:

- □□□□□□□□ Challenge the status quo, lead when they must, and contribute where they can;
- □□□□□□□□ Demonstrate in their activities both self-discipline and self-determination; and
- □□□□□□□□ Actively and enthusiastically engage in understanding the world about them.

ADMISSION

Students can apply for admission to the Honors Program for their first fall semester or during any semester their first or second year. Application is initiated with either self-nomination or faculty nomination. Transfer students who have taken honors courses at Del Mar College and other institutions of higher education are encouraged to apply to the Honors Program at Texas A&M University-Corpus Christi.

Prospective students are asked to submit an application form available on the Honors Program Website along with a short (1000 word maximum) essay answering a specific prompt given on the application form to the Honors Director. The admissions committee identifies a pool of candidates and invites them in for a timed essay and an interview with representatives of the program, including current honors students and faculty. The admissions committee evaluates the results of the essay and the interview so as to make final recommendations for admission, provisional admission, or denial of admission to the Honors Director.

REQUIREMENTS

Graduation from the Honors Program requires:

- □□□□□□□□ A minimum of 30 Honors credit hours in the Honors Curriculum with at least a 'B' in each course;
- □□□□□□□□ A cumulative grade point average of at least 3.5 for all courses taken at Texas A&M-Corpus Christi, excluding courses taken pass/no pass or credit/no credit;

- □□□□□□□□ A Project of Excellence, which is a comprehensive and reflective portfolio of research leading to and including original scholarship or creative work; and,
- □□□□□□□□ A Project of Excellence Honors Symposium Presentation, which is a thirty-minute presentation of the original scholarship or creative work to the Honors community.

CURRICULUM

Required Courses

ENGL 3363.H01 - Honors Rhetoric

COMM 1315.H01 - Honors Public Speaking

ENGL 3361.H01 - Honors Strategies and Genres of Advanced Writing

PHIL 2303.H01 - Honors Introduction to Logic

PHIL 3340.H01 - Honors Professional EthicsPHIL 3340.H01 - Honors Professional Ethics

ECON 2302.H01 - Microeconomics Principles

HONR 3491 - Science and Technology for Decision Makers

HONR 1101 - Honors Freshman Seminar

HONR 1102 - Honors Freshman Seminar

HONR 2101 - Sophomore Seminar

HONR 2102 - Sophomore Seminar II

HONR 3101 - Junior Seminar

HONR 3102 - Junior Seminar II

HONR 4101 - Senior SeminarHONR 4101 - Senior SeminarHONR 4101 - Senior Seminar

HONR 4102 - Senior Seminar II

Optional Courses

HONR 3340 - Academic and Field Research

HONR 3390 - Topics in the Humanities

HONR 3490 - Topics in the Sciences

HONR 4390 - Seminar in the Humanities

HONR 4396 - Honors Directed Independent Study

HONR 4397 - Honors Internship

HONR 4398 - Honors Applied Experience

HONR 4490 - Seminar in the Sciences

STRUCTURE OF THE PROGRAM

The Honors Program is structured to serve students in all majors and degree programs. The suggested sequence below emphasizes the Honors experience in the first two years, when all students are completing the core curriculum. For the 3rd and 4th years, colleges and programs have flexibility to integrate Honors experiences with their existing course of study.

First Year

Fall Semester

HONR 1101 - Honors Freshman Seminar

Spring Semester

HONR 1102 - Honors Freshman Seminar

PHIL 2303.H01 - Honors Introduction to Logic

ENGL 3363.H01 - Honors Rhetoric

Second Year

Fall Semester (The Cornerstone Semester)

HONR 2101 - Sophomore Seminar

COMM 1315.H01 - Honors Public Speaking

PHIL 3340.H01 - Honors Professional EthicsPHIL 3340.H01 - Honors Professional Ethics

Spring Semester (The Keystone Semester)

HONR 2102 - Sophomore Seminar II

ECON 2302.H01 - Microeconomics Principles

HONR 3491 - Science and Technology for Decision Makers

Third Year

Fall Semester (The Capstone Semester)

HONR 3101 - Junior Seminar

ENGL 3361.H01 - Honors Strategies and Genres of Advanced Writing

Spring Semester

HONR 3102 - Junior Seminar II

Fourth Year

Fall Semester

HONR 4101 - Senior SeminarHONR 4101 - Senior SeminarHONR 4101 - Senior Seminar

Spring Semester

HONR 4102 - Senior Seminar II

CONTACT

For further information contact the Honors Program.

Web site: http://honors.tamucc.edu

Campus address: CCH 291F; phone: (361) 825-3926

Mailing address: Honors Program

Texas A&M University-Corpus Christi

6300 Ocean Drive, Corpus Christi, TX 78412-5751

E-Mail: honors@tamucc.edu

University Studies Degree: BA, BS, BAS

University Studies at Texas A&M University-Corpus Christi is a flexible undergraduate program that builds on academic credit students may have earned from a variety of sources and allows students the flexibility of designing a course of study that best fits their educational and career goals. The degree can be completed as a BA, a BS, or BAS, depending on the students' coursework, and consists of four components: first, the Core Curriculum Program (42 hours) or the Core of another accredited institution in the state (see "General Education Requirement" in the "Undergraduate Programs" section of this catalog; see also "University Core Curriculum Programs"); second, a student-designed concentration, which must be approved in advance by the Program Coordinator; third, an area of supporting course work, which can include a minor, credit for prior learning, military, or vocational credit; and fourth, the capstone course, UNVS 4350.

Student Learning Outcomes

After completion of this degree, students will be able to

· Demonstrate good written communication skills;

· Demonstrate good research skills;

· Demonstrate skills and abilities corresponding to their course of study.

Degree Requirements

Core Curriculum Program	42 hours
First-Year Seminars (when applicable)	(2) hours*
Student-Designed Concentration	24 hours
Supporting Coursework	33 hours
Electives	18 hours
UNST4350	3 hours
Total	120 hours (122)

* Full-time, first-year students are required to take the following courses: UCCP 1101 and UCCP 1102

Residence Requirement

Students must take a minimum of 30 semester hours of upper-division course work from this university to complete a University Studies degree.

Advising and Degree Plans

As soon as students declare their intent to pursue a University Studies degree, they must meet with the Program Coordinator to discuss their concentration and possible career path. Students must then propose their concentration requirements, along with a written rationale for their choices, before they register for classes. Once the proposal is approved, the Coordinator will develop a degree plan.

College of Business

College of Business

- Accounting, BBA
- Accounting Minor

- Economics, BBA
- Finance, BBA
- General Business, BBA
- Management Information Systems, BBA
- Management with Emphases in General Management, Health Care Administration, and Human Resource Management, BBA
- Marketing, BBA
- Business Administration Minor
- Economics Minor
- Entrepreneurship Minor
- Human Resource Management Minor
- International Business Minor
- Management Information Systems Minor
- Management Minor
- Marketing Minor
- Personal Financial Planning Minor

The accounting and business undergraduate and master's degree programs are accredited by the AACSB International – The Association to Advance Collegiate Schools of Business.

Mission

The College of Business supports the mission of the University by focusing on the higher education needs of business students in the region. Quality programs are designed to help students advance their education in business, further their careers, pursue advanced studies, and become more productive citizens within a changing global environment. Undergraduate programs offer selected specializations built on a foundation of general education and a broad business core. The Master of Business Administration program provides more advanced general management education with selected concentrations. The college extends access and flexibility through online delivery. The Master of Accountancy program offers advanced accounting studies. The College promotes student learning and engagement and ethical behavior.

Student learning is the highest priority of the College. To that end, the College emphasizes intellectual contributions of applied scholarship and instructional development. The College supports faculty development, community service, and involvement in professional organizations resulting in service to key stakeholders. The College supports regional economic development and solicits input from its primary stakeholders through advisory councils.

Organization

The College's formal administrative units include three academic departments, the Undergraduate Student Advisory Council, the Graduate Student Advisory Council, the Business Advisory Council, the Accounting Advisory Council, and the Center for Economic Education. The College also houses the international headquarters of the Society for Advancement of Management and sponsors student chapters of Beta Gamma Sigma, Delta Sigma Pi, Human Resources Management, Management Information Systems Club, Society for Advancement of Management, Student Accounting Society, Student Finance Association, and Student Economics Association.

Permanent faculty in each of the academic departments (Accounting, Business Law & Finance, Decision Sciences & Economics, and Management & Marketing) are the principal architects of the academic programs (majors and minors) in their respective disciplines. Content of undergraduate and graduate programs is coordinated through the Undergraduate Advisory Committee and the Graduate Advisory Committee, respectively.

The Center for Economic Education is one of eleven Centers that comprise the Texas Council on Economic Education, which is affiliated with the National Council on Economic Education. It is located in the College and a member of the economics faculty serves as its Director. Its mission is to support the economic education needs of teachers of economics topics in South Texas public and private schools.

Programs

The College offers a Bachelor of Business Administration Degree with majors in Accounting; Economics; Finance; General Business; Management with emphases in General Management, Health Care Administration, and Human Resource Management; Management Information Systems; and Marketing. A minor in Business is available to nonbusiness majors desiring to supplement their degree with a business background. Other minors include: Accounting, Economics, Entrepreneurship, Human Resource Management, International Business, Management, Management Information Systems, Marketing, and Personal Financial Planning. (Please consult the Graduate Catalog for information concerning the Master of Business Administration, and the Master of Accountancy.)

Upper-Division Entry into the College of Business

Students who meet University admissions requirements enter the College of Business when they declare their majors and file a degree plan with their academic advisor. Enrollment in 3000/4000 level business courses is limited to (1) Business majors who have completed at least 60 semester hours, or (2) nonbusiness majors who satisfy stated course prerequisites and have completed at least 60 semester hours.

Students must pass the THEA tests in mathematics, reading and writing, unless state law exempts them from taking the tests. (See "Texas Higher Education Assessment (THEA) Requirements" in the "Admission" section of this catalog.) In addition, before taking 3000/4000 level business courses, students who declare a business major should satisfactorily complete at least 60 semester hours, including the following courses or their equivalents, from the business foundation curriculum:

English	6 hours,
Mathematics	6 hours,
Economics	6 hours,
Accounting	6 hours.

Community/Junior College Transfers*

Community and junior college students who plan to transfer to the College of Business are advised to pursue the business foundation curriculum outlined below. The appropriate course equivalency guide should be consulted to resolve questions of course transferability. All business courses normally offered by the College of Business at the junior or senior level must be completed by the student at that level except for BLAW 3310 and ORMS 3310 . Courses acceptable for transfer by Texas A&M University-Corpus Christi will be accepted at the level at which the courses were taken, and at least 50% of the business hours required must be taken at Texas A&M University-Corpus Christi. Courses from a community/junior college cannot be used to satisfy upper level requirements. All business courses transferred require a grade of "C" or better and require prior approval by a College of Business academic advisor.

*Contact an academic advisor in the College of Business for specific information.

Grade Point Average for Graduation

In addition to meeting the various course requirements for a specified major in the College of Business, students must also achieve the following minimum grade point averages: (1) 2.00 for all credit course work completed at Texas A&M University-Corpus Christi, (2) 2.00 in all business courses, and (3) 2.00 in courses in their designated major. Effective fall 2012, no more than two Ds earned after fall 2007 are accepted toward graduation by business majors in business core classes, courses taken in their business major, and business elective courses. (See "Scholastic Probation, Suspension, Dismissal" in the section entitled "General Academic Policies and Regulations.")

Upper-Level Course Requirements

All business students are required to complete at least 45 hours of upper-level (junior and senior level) courses; at least 45 of these hours must be business and/or economics courses.

Student Code of Ethics

The College of Business requires its students to abide by the COB Student Code of Ethics (available online at www.cob.tamucc.edu). Its provisions and stipulations apply to all students taking courses offered by the college, regardless of whether or not they are pursuing a degree awarded by the COB. BUSI 0011 , COB Student Code of Ethics and Plagiarism, a noncredit Blackboard course, is a prerequisite for all 3000 level business core courses.

Assurance of Learning/Student Learning Outcomes

To continue to improve the undergraduate curriculum and the quality of the academic programs the COB, guided by AACSB accreditation standards, has implemented a comprehensive assurance of learning system. Under this assessment program the COB has developed five student learning outcomes for Bachelor of Business Administration (BBA) graduates and has identified a number of instruments to measure the extent to which they are being met.

Alternatives for Students Planning to Take the CPA Examination - The 150-Hour Requirement for CPA Examination:

1. Apply and be admitted to the Professional Program in Accounting at least one semester prior to the desired entrance date to this program. This is an integrated undergraduate and graduate five-year program leading to the awarding of a Bachelor of Business Administration (BBA) and a Master of Accountancy (MAcc). See the previous description of the PPA program under Curriculum in Accounting.
2. Complete a BBA degree, majoring in Accounting, and complete the MAcc.
3. Complete a BBA degree, majoring in Accounting, and complete a Master of Business Administration (MBA). A minimum of 36 semester hours in accounting coursework is required.

See the College of Business section of the Graduate Catalog for details on these programs. (An advanced degree is not currently required to meet the 150-hour standard for becoming a candidate for the CPA examination.)

Undergraduate Courses:

The College of Business offers undergraduate courses in the following fields:

Accounting (ACCT)
Business Administration (BUSI)
Business Law (BLAW)
Economics (ECON)
Entrepreneurship (ENTR)
Finance (FINA)
Management (MGMT)

Management Information Systems (MISY)
Marketing (MKTG)
Operations Management (OPSY)
Operations Research/Management Science (ORMS)

All course descriptions are located in course descriptions.

Bachelor of Business Administration

General Business, BBA

General Business Major

This program of study provides a broad-based business background for those persons who are interested in a business career but do not wish to specialize in a specific functional area. Study in the various business disciplines provides a broader competency base for those who may want to work in or to manage small businesses or selected not-for-profit organizations. This major provides a background for entry-level work in a broad range of businesses.

Student Learning Outcome: Students will demonstrate an understanding of the principles and practices common to the functional areas of business administration.

Complete the Business Foundation Curriculum in the freshman and sophomore years.

Student Learning Outcomes

Students will:

1. Demonstrate the ability to communicate effectively.
2. Demonstrate the ability to use analytical skills supported by information technology for problem-solving and decision-making.
3. Demonstrate professionalism through interpersonal skills, including an understanding of ethical issues and governance responsibilities.
4. Comprehend and explain the basic business functions of accounting, economics, finance, management, management systems, and marketing.
5. Analyze and synthesize the integration of business functions in diverse cultural settings and the global marketplace.

Additionally, a separate major-specific goal is listed for each major in its respective section.

Major Field Test

As an integral part of the College of Business' Assurance of Learning program, the Major Field Test (MFT) is a nationally-normed, standardized multiple-choice test developed by the Educational Testing Service and administered to senior-level business students at many AACSB International accredited institutions in the United States. It is designed to measure students' academic achievement through demonstration of their basic knowledge and understanding of key concepts, theories, and analytical methods in the functional areas of business. This test covers the areas of accounting, economics, finance, international

issues, legal and social environment of business, management, marketing, quantitative business analysis, and information systems.

The MFT is required for all students pursuing the Bachelor of Business Administration degree and will be administered in MGMT 4388, Administrative Policy and Strategy. To prepare for this test, business majors are advised to retain their class notes, textbooks, and other relevant materials from their business core courses in the areas referenced above. Also, to prepare for the MFT, business majors are required to enroll in BUSI 0088 concurrently with MGMT 4388. BUSI 0088 is a non-credit Major Field Test review course.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Business Core	45
D. Major Requirements	24
E. Electives	9
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

General Requirements for BBA Degree

All students seeking the BBA must complete (1) the general studies core prescribed by the University as outlined in the business foundation curriculum, (2) a common core of business courses, (3) courses in the major area specified by the major academic department, and (4) upper division business electives to achieve a minimum of 120-122 semester hours, depending on the need for first-year seminar hours. All students must complete at least 45 hours of junior or senior level courses; at least 45 of these upper-level hours must be in business or economics.

To ensure compliance with the course requirements for a BBA degree, first and second year students should follow the general sequence of courses specified for the business foundation curriculum. Juniors and seniors should follow the sequence outlined in the catalog for their major academic area. **Course prerequisites are strictly enforced**.

Business Core

To provide a common background in business, all students seeking the BBA are required to complete the following courses or their equivalents:

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**

- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- * MATH 1325 - Business Calculus **3 sem. hrs.** **
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.** ***
- OPSY 4314 - Operations Management **3 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**

Note:

* Core Curriculum Program ECON 2302 is an option to satisfy the Core Curriculum Program three hour requirement in economics. Students who completed ECON 2302 in the University Core must take ECON 2301 in the Business Core.

** MATH 2413 - Calculus I may be taken as substitute for MATH 1325. Only 3 hours of MATH 2413 will be counted in Core Curriculum Program requirements, the additional laboratory hour will be counted as an elective.

*** Some majors require a specific international course.

Business Foundation Curriculum

Freshman - Semester I

- BUSI 0011 - Cob Student Code of Ethics and Plagiarism **0 sem. hrs.**
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- * HIST 1301 - U.S. History to 1865 **3 sem. hrs.**
- * ENGL 1301 - Composition I **3 sem. hrs.**
- * POLS 2305 - U.S. Government and Politics **3 sem. hrs.**
- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**

Select one of these 3 hour courses:

- * COMM 1305 - Film and Culture **3 sem. hrs.** OR
- * ARTS 1301 - Art and Society **3 sem. hrs.** OR
- * MUSI 1306 - Understanding and Enjoying Music **3 sem. hrs.** OR
- * MUSI 1307 - Elements of Musical Style **3 sem. hrs.** OR
- * THEA 1310 - The Art of the Theatre **3 sem. hrs.**

Total: 16

Freshman - Semester II

- * ENGL 1302 - Composition II **3 sem. hrs.**
- * Natural Science requirement **3-4 sem. hrs.**
- HIST 1302 - U.S. History Since 1865 **3 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Select one of these 3 hour courses:

- * PSYC 2301 - General Psychology **3 sem. hrs.** OR
- * SOCI 1301 - Human Societies **3 sem. hrs.**

Total: 13-14

Sophomore - Semester I

- * ECON 2301 - Macroeconomics Principles **3 sem. hrs.**
- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- * MATH 1324 - Business Mathematics **3 sem. hrs.**
- * Natural Science Requirement **3-4 sem. hrs.**

Select one of these 3 hour courses:

- * ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.** OR
- * ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.** OR
- * ENGL 2334 - Themes and Genres in English Literatures **3 sem. hrs.** OR
- * ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.** OR
- * SPAN 3307 - Spanish Literature I **3 sem. hrs.** OR
- * SPAN 3308 - Spanish Literature II **3 sem. hrs.** OR
- * SPAN 3309 - Spanish American Literature I **3 sem. hrs.** OR
- * SPAN 3310 - Spanish American Literature II **3 sem. hrs.**

Total: 15-16

Sophomore - Semester II

- * POLS 2306 - State and Local Government **3 sem. hrs.**
- MATH 1325 - Business Calculus **3 sem. hrs.**
- * COMM 1315 - Public Speaking **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**

- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- Business Elective **3 sem. hrs.**

Total: 18

Note:

*Core Curriculum Program

Junior - Semester I

- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**

Total: 15

Junior - Semester II

- FINA 3310 - Financial Management **3 sem. hrs.**
- Nonbusiness Elective **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**

Select one of these 3 hour courses:

- MKTG 3315 - Advertising and Promotional Strategy **3 sem. hrs.** OR
- MKTG 3345 - Sales Management **3 sem. hrs.** OR
- MKTG 4310 - Distribution Systems in Marketing **3 sem. hrs.**

Select one of these 3 hour courses:

- ACCT 3311 - Intermediate Accounting I **3 sem. hrs.** OR
- ACCT 3314 - Cost Accounting **3 sem. hrs.** OR
- ACCT 3321 - Federal Income Tax I **3 sem. hrs.**
- ACCT 3355 - Accounting Information Systems **3 sem. hrs.**

Total: 15

Senior - Semester I

- Upper-level Business Elective **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.** **
- OPSY 4314 - Operations Management **3 sem. hrs.**
- An Upper Division Finance Class **3 sem. hrs.**

Select one of these 3 hour courses:

- MGMT 3320 - Concepts of Human Resource Management **3 sem. hrs.** OR
- MGMT 4320 - Leadership and Managerial Effectiveness **3 sem. hrs.**

Total: 15

Senior - Semester II

- Business Elective **3 sem. hrs.**
- Upper-level Business Electives **9 sem. hrs.**
- BUSI 0088 - Major Field Test Review **0 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**

Total: 15

Note:

*Core Curriculum Program

**Any other international business course may be used as a substitute.

Accounting and Business Law

Bachelor of Business Administration

Accounting, BBA

Accounting Major

The accounting major is designed to provide entry-level knowledge, skills, and concepts for careers in accounting. These careers are generally divided into four broad areas, corresponding to particular employment environments: management accounting, government accounting, accounting education, and public accounting. The career can include such activities as auditing, budgeting, data processing, controlling costs, providing tax advice, meeting tax requirements, and designing and analyzing financial systems.

Practicing accountants generally acquire one or more certifications available to members of the profession. The most common certification is the Certified Public Accountant (CPA), conferred by the State Board of Public Accountancy of the state in which the individual maintains his or her license. Other certifications include the Certified Management Accountant (CMA), the Certified Internal Auditor (CIA), Certified Fraud Examiner (CFE), and others.

The Texas State Board of Public Accountancy has set the minimum educational requirements for taking the CPA examination at 150 semester hours. **Students aspiring to an accounting career should give serious consideration to pursuing advanced studies at the graduate level to enhance their potential for a successful accounting career.** Accounting students should be aware that requirements to sit for the CPA examination in Texas may change at any time. CPA requirements are determined by the Texas State Board of Public Accountancy (TSBPA). Students should frequently visit the TSBPA website at http://www.tsbpa.state.tx.us/> and check with their advisor on a regular basis to ensure that the courses they are taking will qualify them to sit for the CPA exam.

Students who have not yet received an undergraduate degree should inquire about the **Professional Program in Accounting (PPA)** described below. For students who have received their undergraduate degrees, the Department of Accounting, Business Law, and Finance offers an avenue to pursue graduate studies to meet the State qualifications for professional certification through the **Master of Accountancy (MAcc)**. This option is described in the College of Business section of the Graduate Catalog. Students are encouraged to contact the Director of Master's Programs in the College of Business for more information and answers to specific questions.

Student Learning Outcomes

Students will:

1. Demonstrate the ability to communicate effectively.
2. Demonstrate the ability to use analytical skills supported by information technology for problem-solving and decision-making.

3. Demonstrate professionalism through interpersonal skills, including an understanding of ethical issues and governance responsibilities.
4. Comprehend and explain the basic business functions of accounting, economics, finance, management, management systems, and marketing.
5. Analyze and synthesize the integration of business functions in diverse cultural settings and the global marketplace.

Additionally, a separate major-specific goal is listed for each major in its respective section.

Major Field Test

As an integral part of the College of Business' Assurance of Learning program, the Major Field Test (MFT) is a nationally-normed, standardized multiple-choice test developed by the Educational Testing Service and administered to senior-level business students at many AACSB International accredited institutions in the United States. It is designed to measure students' academic achievement through demonstration of their basic knowledge and understanding of key concepts, theories, and analytical methods in the functional areas of business. This test covers the areas of accounting, economics, finance, international issues, legal and social environment of business, management, marketing, quantitative business analysis, and information systems.

The MFT is required for all students pursuing the Bachelor of Business Administration degree and will be administered in MGMT 4388, Administrative Policy and Strategy. To prepare for this test, business majors are advised to retain their class notes, textbooks, and other relevant materials from their business core courses in the areas referenced above. Also, to prepare for the MFT, business majors are required to enroll in BUSI 0088 concurrently with MGMT 4388. BUSI 0088 is a non-credit Major Field Test review course.

Professional Program in Accounting (PPA)

The Professional Program in Accounting (PPA) is designed to prepare students for successful careers in public accounting, industry, government and other areas of the accounting profession. Admission can occur as early as the first semester of the junior year and as late as the second semester of the senior year. The curriculum emphasizes the development of ethical judgment, business decision-making skills, and teamwork, and encourages students to intern with a business appropriate to their career path.

A variety of different career paths are available to accountants. Accounting professionals work in public accounting in audit, consulting, tax and financial planning, providing services to a wide range of organizations. Accountants also enjoy financial reporting, tax, and managerial accounting careers with companies in all industries, in all levels of government, and in educational institutions as professionals and as educators. As businesses, governments, and individuals generate and utilize information at accelerating rates in an increasingly global environment, public trust in the value of the information and the financial reporting of firms depends on the highest integrity, dedication, and expertise of the accountants in each of these career paths.

Admission

Students must apply at least one semester prior to the desired entrance date and be admitted to the PPA program. Admission to the PPA program is based on the applicant's undergraduate grade point average at the time of application. Other relevant examples of academic ability and leadership may be considered in evaluating applicants.

Degree Requirements

The BBA degree will be awarded upon completion of the BBA requirements. PPA students will apply for and enter the Master of Accountancy (MAcc) program and receive the Master of Accountancy degree upon completion of the requirements for such degree.

Required Business Core

The PPA program follows the curriculum requirements for the Core Curriculum Program and the business core for undergraduates. All PPA students must complete at least 45 hours of junior or senior level courses and satisfy all other AACSB accreditation requirements as specified in the catalog. Coursework in the student's concentration must be approved in advance by the PPA student's advisor.

Graduate Coursework

PPA students are required to take 30 semester hours of graduate coursework, including at least 24 hours in accounting. Graduate courses are integrated into the PPA curriculum beginning in the second semester of the fourth year.

Accounting Major

Student Learning Outcome: Students will demonstrate an understanding of the principles and practices common to the major areas of accounting.

Complete the Business Foundation Curriculum in the freshman and sophomore years.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Business Core	45
D. Major Requirements	24
E. Electives	9
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Accounting Major (Professional Program)

Complete the Business Foundation Curriculum in the freshman and sophomore years.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Business Core	45
D.	Major Requirements	24
E.	Electives	9
F.	Graduate Coursework	30
		Total 150 (152)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

General Requirements for BBA Degree

All students seeking the BBA must complete (1) the general studies core prescribed by the University as outlined in the business foundation curriculum, (2) a common core of business courses, (3) courses in the major area specified by the major academic department, and (4) upper division business electives to achieve a minimum of 120-122 semester hours, depending on the need for first-year seminar hours. All students must complete at least 45 hours of junior or senior level courses; at least 45 of these upper-level hours must be in business or economics.

To ensure compliance with the course requirements for a BBA degree, first and second year students should follow the general sequence of courses specified for the business foundation curriculum. Juniors and seniors should follow the sequence outlined in the catalog for their major academic area. **Course prerequisites are strictly enforced**.

Business Core

To provide a common background in business, all students seeking the BBA are required to complete the following courses or their equivalents:

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- * MATH 1325 - Business Calculus **3 sem. hrs.** **
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**

- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.** ***
- OPSY 4314 - Operations Management **3 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**

Note:

* Core Curriculum Program ECON 2302 is an option to satisfy the Core Curriculum Program three hour requirement in economics. Students who completed ECON 2302 in the University Core must take ECON 2301 in the Business Core.

** MATH 2413 - Calculus I may be taken as substitute for MATH 1325. Only 3 hours of MATH 2413 will be counted in Core Curriculum Program requirements, the additional laboratory hour will be counted as an elective.

*** Some majors require a specific international course.

Business Foundation Curriculum

Freshman - Semester I

- BUSI 0011 - Cob Student Code of Ethics and Plagiarism **0 sem. hrs.**
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- * HIST 1301 - U.S. History to 1865 **3 sem. hrs.**
- * ENGL 1301 - Composition I **3 sem. hrs.**
- * POLS 2305 - U.S. Government and Politics **3 sem. hrs.**
- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**

Select one of these 3 hour courses:

- * COMM 1305 - Film and Culture **3 sem. hrs.** OR
- * ARTS 1301 - Art and Society **3 sem. hrs.** OR
- * MUSI 1306 - Understanding and Enjoying Music **3 sem. hrs.** OR
- * MUSI 1307 - Elements of Musical Style **3 sem. hrs.** OR
- * THEA 1310 - The Art of the Theatre **3 sem. hrs.**

Total: 16

Freshman - Semester II

- * ENGL 1302 - Composition II **3 sem. hrs.**
- * Natural Science requirement **3-4 sem. hrs.**
- HIST 1302 - U.S. History Since 1865 **3 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Select one of these 3 hour courses:

- * PSYC 2301 - General Psychology **3 sem. hrs.** OR
- * SOCI 1301 - Human Societies **3 sem. hrs.**

Total: 13-14

Sophomore - Semester I

- * ECON 2301 - Macroeconomics Principles **3 sem. hrs.**
- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- * MATH 1324 - Business Mathematics **3 sem. hrs.**
- * Natural Science Requirement **3-4 sem. hrs.**

Select one of these 3 hour courses:

- * ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.** OR
- * ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.** OR
- * ENGL 2334 - Themes and Genres in English Literatures **3 sem. hrs.** OR
- * ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.** OR
- * SPAN 3307 - Spanish Literature I **3 sem. hrs.** OR
- * SPAN 3308 - Spanish Literature II **3 sem. hrs.** OR
- * SPAN 3309 - Spanish American Literature I **3 sem. hrs.** OR
- * SPAN 3310 - Spanish American Literature II **3 sem. hrs.**

Total: 15-16

Sophomore - Semester II

- * POLS 2306 - State and Local Government **3 sem. hrs.**
- MATH 1325 - Business Calculus **3 sem. hrs.**
- * COMM 1315 - Public Speaking **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- Business Elective **3 sem. hrs.**

Total: 18

Note:

*Core Curriculum Program

Accounting Major

Junior – Semester I

- ACCT 3311 - Intermediate Accounting I **3 sem. hrs.**
- ACCT 3314 - Cost Accounting **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**

Total: 18

Junior – Semester II

- ACCT 3312 - Intermediate Accounting II **3 sem. hrs.**
- ACCT 3321 - Federal Income Tax I **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**

Total: 15

Senior – Semester I

- ACCT 3355 - Accounting Information Systems **3 sem. hrs.**
- ACCT Elective **3 sem. hrs.**
- Upper-level Business Elective **3 sem. hrs.**
- OPSY 4314 - Operations Management **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.** **

Total: 15

Senior – Semester II

- ACCT 4311 - Auditing Principles and Procedures **3 sem. hrs.**
- ACCT Elective **3 sem. hrs.**
- BUSI 0088 - Major Field Test Review **0 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**
- Nonbusiness Elective **3 sem. hrs.**

Total: 12

Note:

*Core Curriculum Program

**Students may substitute any international business course.

Accounting Major (Professional Program)

Junior – Semester I

- ACCT 3311 - Intermediate Accounting I **3 sem. hrs.**
- ACCT 3314 - Cost Accounting **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**

Total: 18

Junior – Semester II

- ACCT 3312 - Intermediate Accounting II **3 sem. hrs.**
- ACCT 3321 - Federal Income Tax I **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**

Total: 15

Senior – Semester I

- ACCT 3355 - Accounting Information Systems **3 sem. hrs.**
- Undergraduate ACCT Elective **3 sem. hrs.**
- Upper-level Business Elective **3 sem. hrs.**
- OPSY 4314 - Operations Management **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.** **

Total: 15

Senior - Semester II

- ACCT 5371 Tax Consulting, Planning and Research
- ACCT 4311 - Auditing Principles and Procedures **3 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**
- Undergraduate Accounting Elective **3 sem. hrs.**
- Graduate Accounting **OR** Business Elective **3 sem. hrs.**

Total: 15

Summer

- ACCT 5345 - Ethics for Accounting and Business Executives **3 sem. hrs.**
- Accounting Graduate Elective **3 sem. hrs.**

Total: 6

Graduate Semester I

Three of the following four advanced graduate accounting courses:

- ACCT 5341 - Advanced Auditing and Assurance Services **3 sem. hrs.**
- ACCT 5351 - Strategic Cost Management **3 sem. hrs.**
- ACCT 5355 - Information Systems in Accounting **3 sem. hrs.**
- ACCT 5381 - Accounting Theory **3 sem. hrs.**

Total: 9

Graduate - Semester II

- *** ACCT 5391 - Integrative Seminar in Accounting **3 sem. hrs.**
- Graduate Accounting Elective **3 sem. hrs.**
- Graduate Accounting or Business Elective **3 sem. hrs.**

Total: 9

Note:

* Core Curriculum Program

** May substitute any undergraduate international business course.

*** Must be taken within or subsequent to the semester in which the student reaches 150 academic hours qualifying for the CPA exam.

**** Must be taken at the end of the program.

Students must comply with the college academic policies and requirements discussed earlier.

Alternatives for Students Planning to take the CPA Examination - The 150-Hour Requirement for CPA Examination:

1. Apply and be admitted to the Professional Program in Accounting at least one semester prior to the desired entrance date to this program. This is an integrated undergraduate and graduate five-year program leading to the joint awarding of a Bachelor of Business Administration (BBA) and a Master of Accountancy (MAcc). See the previous description of the PPA program under Curriculum in Accounting.
2. Complete a BBA degree, majoring in Accounting, and complete the MAcc.

3. Complete a BBA degree, majoring in Accounting, and complete a Master of Business Administration (MBA). A minimum of 36 semester hours in accounting coursework is required.

See the College of Business section of the Graduate Catalog for details on these programs. (An advanced degree is not currently required to meet the 150-hour standard for becoming a candidate for the CPA examination.)

Minor

Accounting Minor

(for Non-accounting Majors)

The minor in Accounting is designed to serve non-accounting majors who are interested in supplementing their major with an accounting dimension. A minimum of 12 hours must be taken at Texas A&M University-Corpus Christi. For additional information, contact the academic advisor in the College of Business.

Required Courses*

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- ACCT 3311 - Intermediate Accounting I **3 sem. hrs.**
- ACCT 3312 - Intermediate Accounting II **3 sem. hrs.**
- ACCT 3314 - Cost Accounting **3 sem. hrs.**
- ACCT 3321 - Federal Income Tax I **3 sem. hrs.**

Total: 18

Note:

*See course descriptions for prerequisites.

Decision Sciences and Economics

Bachelor of Business Administration

Economics, BBA

Economics Major

The economics major is designed to provide students with a solid foundation in the theory and applications of economics in preparation for their chosen profession. Possible career opportunities for graduates include entry-level positions as research and financial analysts in the business and government sectors; and brokerage and currency traders in the financial and banking sectors. In addition, the economics major offers an excellent preparation for graduate studies in law, economics and other business disciplines.

Student Learning Outcome: Students will demonstrate an understanding of contemporary economic theories and policy considerations in a domestic and international context.

Complete the Business Foundation Curriculum in the freshman and sophomore years.

Student Learning Outcomes

Students will:

1. Demonstrate the ability to communicate effectively.
2. Demonstrate the ability to use analytical skills supported by information technology for problem-solving and decision-making.
3. Demonstrate professionalism through interpersonal skills, including an understanding of ethical issues and governance responsibilities.
4. Comprehend and explain the basic business functions of accounting, economics, finance, management, management systems, and marketing.
5. Analyze and synthesize the integration of business functions in diverse cultural settings and the global marketplace.

Additionally, a separate major-specific goal is listed for each major in its respective section.

Major Field Test

As an integral part of the College of Business' Assurance of Learning program, the Major Field Test (MFT) is a nationally-normed, standardized multiple-choice test developed by the Educational Testing Service and administered to senior-level business students at many AACSB International accredited institutions in the United States. It is designed to measure students' academic achievement through demonstration of their basic knowledge and understanding of key concepts, theories, and analytical methods in the functional areas of business. This test covers the areas of accounting, economics, finance, international issues, legal and social environment of business, management, marketing, quantitative business analysis, and information systems.

The MFT is required for all students pursuing the Bachelor of Business Administration degree and will be administered in MGMT 4388, Administrative Policy and Strategy. To prepare for this test, business majors are advised to retain their class notes, textbooks, and other relevant materials from their business core courses in the areas referenced above. Also, to prepare for the MFT, business majors are required to enroll in BUSI 0088 concurrently with MGMT 4388. BUSI 0088 is a non-credit Major Field Test review course.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42

B.	First-Year Seminars (when applicable)*	(2)
C.	Business Core	45
D.	Major Requirements	24
E.	Electives	9

Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

General Requirements for BBA Degree

All students seeking the BBA must complete (1) the general studies core prescribed by the University as outlined in the business foundation curriculum, (2) a common core of business courses, (3) courses in the major area specified by the major academic department, and (4) upper division business electives to achieve a minimum of 120-122 semester hours, depending on the need for first-year seminar hours. All students must complete at least 45 hours of junior or senior level courses; at least 45 of these upper-level hours must be in business or economics.

To ensure compliance with the course requirements for a BBA degree, first and second year students should follow the general sequence of courses specified for the business foundation curriculum. Juniors and seniors should follow the sequence outlined in the catalog for their major academic area. **Course prerequisites are strictly enforced**.

Business Core

To provide a common background in business, all students seeking the BBA are required to complete the following courses or their equivalents:

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- * MATH 1325 - Business Calculus **3 sem. hrs.** **
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.** ***
- OPSY 4314 - Operations Management **3 sem. hrs.**

- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**

Note:

* Core Curriculum Program ECON 2302 is an option to satisfy the Core Curriculum Program three hour requirement in economics. Students who completed ECON 2302 in the University Core must take ECON 2301 in the Business Core.

** MATH 2413 - Calculus I may be taken as substitute for MATH 1325. Only 3 hours of MATH 2413 will be counted in Core Curriculum Program requirements, the additional laboratory hour will be counted as an elective.

*** Some majors require a specific international course.

Business Foundation Curriculum

Freshman - Semester I

- BUSI 0011 - Cob Student Code of Ethics and Plagiarism **0 sem. hrs.**
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- * HIST 1301 - U.S. History to 1865 **3 sem. hrs.**
- * ENGL 1301 - Composition I **3 sem. hrs.**
- * POLS 2305 - U.S. Government and Politics **3 sem. hrs.**
- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**

Select one of these 3 hour courses:

- * COMM 1305 - Film and Culture **3 sem. hrs.** OR
- * ARTS 1301 - Art and Society **3 sem. hrs.** OR
- * MUSI 1306 - Understanding and Enjoying Music **3 sem. hrs.** OR
- * MUSI 1307 - Elements of Musical Style **3 sem. hrs.** OR
- * THEA 1310 - The Art of the Theatre **3 sem. hrs.**

Total: 16

Freshman - Semester II

- * ENGL 1302 - Composition II **3 sem. hrs.**
- * Natural Science requirement **3-4 sem. hrs.**
- HIST 1302 - U.S. History Since 1865 **3 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Select one of these 3 hour courses:

- * PSYC 2301 - General Psychology **3 sem. hrs.** OR
- * SOCI 1301 - Human Societies **3 sem. hrs.**

Total: 13-14

Sophomore - Semester I

- * ECON 2301 - Macroeconomics Principles **3 sem. hrs.**
- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- * MATH 1324 - Business Mathematics **3 sem. hrs.**
- * Natural Science Requirement **3-4 sem. hrs.**

Select one of these 3 hour courses:

- * ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.** OR
- * ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.** OR
- * ENGL 2334 - Themes and Genres in English Literatures **3 sem. hrs.** OR
- * ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.** OR
- * SPAN 3307 - Spanish Literature I **3 sem. hrs.** OR
- * SPAN 3308 - Spanish Literature II **3 sem. hrs.** OR
- * SPAN 3309 - Spanish American Literature I **3 sem. hrs.** OR
- * SPAN 3310 - Spanish American Literature II **3 sem. hrs.**

Total: 15-16

Sophomore - Semester II

- * POLS 2306 - State and Local Government **3 sem. hrs.**
- MATH 1325 - Business Calculus **3 sem. hrs.**
- * COMM 1315 - Public Speaking **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- Business Elective **3 sem. hrs.**

Total: 18

Note:

*Core Curriculum Program

Junior – Semester I

- FINA 3310 - Financial Management **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- ECON 3310 - Intermediate Macroeconomics **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**

Total: 15

Junior – Semester II

- Upper-level Business Elective **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- ECON 3311 - Intermediate Microeconomics **3 sem. hrs.**

- ECON 3312 - Money and Banking **3 sem. hrs.**
  OR
- FINA 3312 - Financial Markets and Institutions **3 sem. hrs.**

Total: 18

Senior – Semester I

- OPSY 4314 - Operations Management **3 sem. hrs.**
- ECON 3322 - Managerial Economics **3 sem. hrs.**
- ECON 3315 - International Economic Issues **3 sem. hrs.**
- ECON 4310 - Introduction to Econometrics **3 sem. hrs.**
- Upper Level Business Elective **3 sem. hrs.**

Total: 15

Senior – Semester II

- BUSI 0088 - Major Field Test Review **0 sem. hrs.**
- ECON 4085 - Economics Exit Exam **0 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**
- 2 Economics electives **6 sem. hrs.** **
- 3 hrs in Nonbusiness electives **3 sem. hrs.**

Total: 12

Note:

* Core Curriculum Program

** FINA 4334 may be substituted in place of an economics elective.

Finance, BBA

Finance Major

The courses required for a finance major are designed to help students prepare for careers in Corporate Financial Management, Investment Planning, Brokerage, Insurance, Commercial Banking, Real Estate and other similar fields. Core courses in finance provide students with a background in security analysis and investments, portfolio management, and financial planning and analysis. The curriculum also covers monetary policy, banking, financial markets, financial reporting, statement analysis, and risk management. Students may select finance electives in their area of interest such as insurance, real estate, accounting, or expand their knowledge in investments or financial analysis.

Student Learning Outcome: Students will demonstrate an understanding of the principles and practices common to the major areas of finance.

Complete the Business Foundation Curriculum in the freshman and sophomore years.

Student Learning Outcomes

Students will:

1. Demonstrate the ability to communicate effectively.
2. Demonstrate the ability to use analytical skills supported by information technology for problem-solving and decision-making.
3. Demonstrate professionalism through interpersonal skills, including an understanding of ethical issues and governance responsibilities.

4. Comprehend and explain the basic business functions of accounting, economics, finance, management, management systems, and marketing.
5. Analyze and synthesize the integration of business functions in diverse cultural settings and the global marketplace.

Additionally, a separate major-specific goal is listed for each major in its respective section.

Major Field Test

As an integral part of the College of Business' Assurance of Learning program, the Major Field Test (MFT) is a nationally-normed, standardized multiple-choice test developed by the Educational Testing Service and administered to senior-level business students at many AACSB International accredited institutions in the United States. It is designed to measure students' academic achievement through demonstration of their basic knowledge and understanding of key concepts, theories, and analytical methods in the functional areas of business. This test covers the areas of accounting, economics, finance, international issues, legal and social environment of business, management, marketing, quantitative business analysis, and information systems.

The MFT is required for all students pursuing the Bachelor of Business Administration degree and will be administered in MGMT 4388, Administrative Policy and Strategy. To prepare for this test, business majors are advised to retain their class notes, textbooks, and other relevant materials from their business core courses in the areas referenced above. Also, to prepare for the MFT, business majors are required to enroll in BUSI 0088 concurrently with MGMT 4388. BUSI 0088 is a non-credit Major Field Test review course.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Business Core	45
D. Major Requirements	24
E. Electives	9
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

General Requirements for BBA Degree

All students seeking the BBA must complete (1) the general studies core prescribed by the University as outlined in the business foundation curriculum, (2) a common core of business courses, (3) courses in the major area specified by the major academic department, and (4) upper division business electives to achieve a minimum of 120-122 semester hours, depending on the need

for first-year seminar hours. All students must complete at least 45 hours of junior or senior level courses; at least 45 of these upper-level hours must be in business or economics.

To ensure compliance with the course requirements for a BBA degree, first and second year students should follow the general sequence of courses specified for the business foundation curriculum. Juniors and seniors should follow the sequence outlined in the catalog for their major academic area. **Course prerequisites are strictly enforced**.

Business Core

To provide a common background in business, all students seeking the BBA are required to complete the following courses or their equivalents:

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- * MATH 1325 - Business Calculus **3 sem. hrs.** **
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.** ***
- OPSY 4314 - Operations Management **3 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**

Note:

* Core Curriculum Program ECON 2302 is an option to satisfy the Core Curriculum Program three hour requirement in economics. Students who completed ECON 2302 in the University Core must take ECON 2301 in the Business Core.

** MATH 2413 - Calculus I may be taken as substitute for MATH 1325. Only 3 hours of MATH 2413 will be counted in Core Curriculum Program requirements, the additional laboratory hour will be counted as an elective.

*** Some majors require a specific international course.

Business Foundation Curriculum

Freshman - Semester I

- BUSI 0011 - Cob Student Code of Ethics and Plagiarism **0 sem. hrs.**
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- * HIST 1301 - U.S. History to 1865 **3 sem. hrs.**
- * ENGL 1301 - Composition I **3 sem. hrs.**
- * POLS 2305 - U.S. Government and Politics **3 sem. hrs.**

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**

Select one of these 3 hour courses:

- * COMM 1305 - Film and Culture **3 sem. hrs.** OR
- * ARTS 1301 - Art and Society **3 sem. hrs.** OR
- * MUSI 1306 - Understanding and Enjoying Music **3 sem. hrs.** OR
- * MUSI 1307 - Elements of Musical Style **3 sem. hrs.** OR
- * THEA 1310 - The Art of the Theatre **3 sem. hrs.**

Total: 16

Freshman - Semester II

- * ENGL 1302 - Composition II **3 sem. hrs.**
- * Natural Science requirement **3-4 sem. hrs.**
- HIST 1302 - U.S. History Since 1865 **3 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Select one of these 3 hour courses:

- * PSYC 2301 - General Psychology **3 sem. hrs.** OR
- * SOCI 1301 - Human Societies **3 sem. hrs.**

Total: 13-14

Sophomore - Semester I

- * ECON 2301 - Macroeconomics Principles **3 sem. hrs.**
- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- * MATH 1324 - Business Mathematics **3 sem. hrs.**
- * Natural Science Requirement **3-4 sem. hrs.**

Select one of these 3 hour courses:

- * ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.** OR
- * ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.** OR
- * ENGL 2334 - Themes and Genres in English Literatures **3 sem. hrs.** OR
- * ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.** OR
- * SPAN 3307 - Spanish Literature I **3 sem. hrs.** OR
- * SPAN 3308 - Spanish Literature II **3 sem. hrs.** OR

- * SPAN 3309 - Spanish American Literature I **3 sem. hrs.** OR
- * SPAN 3310 - Spanish American Literature II **3 sem. hrs.**

Total: 15-16

Sophomore - Semester II

- * POLS 2306 - State and Local Government **3 sem. hrs.**
- MATH 1325 - Business Calculus **3 sem. hrs.**
- * COMM 1315 - Public Speaking **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- Business Elective **3 sem. hrs.**

Total: 18

Note:

*Core Curriculum Program

Junior – Semester I

- Upper-level Business Elective **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- FINA 3331 - Investments **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**

Total: 15

Junior - Semester II

- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- FINA 3320 - Intermediate Corporate Finance **3 sem. hrs.**

- FINA 4332 - Security Analysis and Portfolio Management **3 sem. hrs.**

Total: 15

Senior – Semester I

- FINA 4310 - Advanced Financial Management **3 sem. hrs.**
- FINA 4315 - International Finance **3 sem. hrs.**
- OPSY 4314 - Operations Management **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- Upper-level Finance elective **3 sem. hrs.**

Total: 15

Senior – Semester II

- BUSI 0088 - Major Field Test Review **0 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**
- Nonbusiness Elective **3 sem. hrs.**
- Two upper-level Finance electives **6 sem. hrs.**

Select one of these 3 hour courses:

- ECON 4310 - Introduction to Econometrics **3 sem. hrs.** OR
- Upper-level Finance Elective, OR
- ACCT 3311 - Intermediate Accounting I **3 sem. hrs.** OR
- ACCT 3314 - Cost Accounting **3 sem. hrs.** OR
- ACCT 3316 - Governmental and Municipal Accounting **3 sem. hrs.** OR
- ACCT 3321 - Federal Income Tax I **3 sem. hrs.**

Total: 15

Note:

*Core Curriculum Program

Management Information Systems, BBA

Management Information Systems Major

The MIS program supports students and professionals in their applied use of computers. Information systems supports a variety of business activities using computer systems; it is not intended to prepare software developers.

Student Learning Outcome: Students will demonstrate an understanding of how computer systems support a variety of business activities.

Complete the Business Foundation Curriculum in the freshman and sophomore years.

Student Learning Outcomes

Students will:

1. Demonstrate the ability to communicate effectively.
2. Demonstrate the ability to use analytical skills supported by information technology for problem-solving and decision-making.
3. Demonstrate professionalism through interpersonal skills, including an understanding of ethical issues and governance responsibilities.
4. Comprehend and explain the basic business functions of accounting, economics, finance, management, management systems, and marketing.
5. Analyze and synthesize the integration of business functions in diverse cultural settings and the global marketplace.

Additionally, a separate major-specific goal is listed for each major in its respective section.

Major Field Test

As an integral part of the College of Business' Assurance of Learning program, the Major Field Test (MFT) is a nationally-normed, standardized multiple-choice test developed by the Educational Testing Service and administered to senior-level business students at many AACSB International accredited institutions in the United States. It is designed to measure students' academic achievement through demonstration of their basic knowledge and understanding of key concepts, theories, and analytical methods in the functional areas of business. This test covers the areas of accounting, economics, finance, international issues, legal and social environment of business, management, marketing, quantitative business analysis, and information systems.

The MFT is required for all students pursuing the Bachelor of Business Administration degree and will be administered in MGMT 4388, Administrative Policy and Strategy. To prepare for this test, business majors are advised to retain their class notes, textbooks, and other relevant materials from their business core courses in the areas referenced above. Also, to prepare for the MFT, business majors are required to enroll in BUSI 0088 concurrently with MGMT 4388. BUSI 0088 is a non-credit Major Field Test review course.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Business Core	45
D. Major Requirements	24
E. Electives	9
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

General Requirements for BBA Degree

All students seeking the BBA must complete (1) the general studies core prescribed by the University as outlined in the business foundation curriculum, (2) a common core of business courses, (3) courses in the major area specified by the major academic department, and (4) upper division business electives to achieve a minimum of 120-122 semester hours, depending on the need for first-year seminar hours. All students must complete at least 45 hours of junior or senior level courses; at least 45 of these upper-level hours must be in business or economics.

To ensure compliance with the course requirements for a BBA degree, first and second year students should follow the general sequence of courses specified for the business foundation curriculum. Juniors and seniors should follow the sequence outlined in the catalog for their major academic area. **Course prerequisites are strictly enforced**.

Business Core

To provide a common background in business, all students seeking the BBA are required to complete the following courses or their equivalents:

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- * MATH 1325 - Business Calculus **3 sem. hrs.** **
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**

- BUSI 4310 - International Business **3 sem. hrs.** ***
- OPSY 4314 - Operations Management **3 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**

Note:

* Core Curriculum Program ECON 2302 is an option to satisfy the Core Curriculum Program three hour requirement in economics. Students who completed ECON 2302 in the University Core must take ECON 2301 in the Business Core.

** MATH 2413 - Calculus I may be taken as substitute for MATH 1325. Only 3 hours of MATH 2413 will be counted in Core Curriculum Program requirements, the additional laboratory hour will be counted as an elective.

*** Some majors require a specific international course.

Business Foundation Curriculum

Freshman - Semester I

- BUSI 0011 - Cob Student Code of Ethics and Plagiarism **0 sem. hrs.**
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- * HIST 1301 - U.S. History to 1865 **3 sem. hrs.**
- * ENGL 1301 - Composition I **3 sem. hrs.**
- * POLS 2305 - U.S. Government and Politics **3 sem. hrs.**
- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**

Select one of these 3 hour courses:

- * COMM 1305 - Film and Culture **3 sem. hrs.** OR
- * ARTS 1301 - Art and Society **3 sem. hrs.** OR
- * MUSI 1306 - Understanding and Enjoying Music **3 sem. hrs.** OR
- * MUSI 1307 - Elements of Musical Style **3 sem. hrs.** OR
- * THEA 1310 - The Art of the Theatre **3 sem. hrs.**

Total: 16

Freshman - Semester II

- * ENGL 1302 - Composition II **3 sem. hrs.**
- * Natural Science requirement **3-4 sem. hrs.**
- HIST 1302 - U.S. History Since 1865 **3 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Select one of these 3 hour courses:

- * PSYC 2301 - General Psychology **3 sem. hrs.** OR
- * SOCI 1301 - Human Societies **3 sem. hrs.**

Total: 13-14

Sophomore - Semester I

- * ECON 2301 - Macroeconomics Principles **3 sem. hrs.**
- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- * MATH 1324 - Business Mathematics **3 sem. hrs.**
- * Natural Science Requirement **3-4 sem. hrs.**

Select one of these 3 hour courses:

- * ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.** OR
- * ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.** OR
- * ENGL 2334 - Themes and Genres in English Literatures **3 sem. hrs.** OR
- * ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.** OR
- * SPAN 3307 - Spanish Literature I **3 sem. hrs.** OR
- * SPAN 3308 - Spanish Literature II **3 sem. hrs.** OR
- * SPAN 3309 - Spanish American Literature I **3 sem. hrs.** OR
- * SPAN 3310 - Spanish American Literature II **3 sem. hrs.**

Total: 15-16

Sophomore - Semester II

- * POLS 2306 - State and Local Government **3 sem. hrs.**
- MATH 1325 - Business Calculus **3 sem. hrs.**
- * COMM 1315 - Public Speaking **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- Business Elective **3 sem. hrs.**

Total: 18

Note:

*Core Curriculum Program

Junior - Semester I

- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- MISY 3350 - Business Applications Development **3 sem. hrs.**

Total: 15

Junior - Semester II

- FINA 3310 - Financial Management **3 sem. hrs.**
- MISY 3320 - Business Data Communication and Networking I **3 sem. hrs.**
- MISY 3330 - Database Management **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**

Total: 15

Senior - Semester I

- BUSI 4310 - International Business **3 sem. hrs.** **
- OPSY 4314 - Operations Management **3 sem. hrs.**
- MISY 3340 - Systems Analysis and Design **3 sem. hrs.**
- Senior-level MISY Elective **3 sem. hrs.**
- Upper-level Business Elective **3 sem. hrs.**

Total: 15

Senior - Semester II

- BUSI 0088 - Major Field Test Review **0 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**
- MISY 4330 - Website Development for Business **3 sem. hrs.**
- MISY 4390 - Current Topics in Management Information Systems **1-3 sem. hrs.** (IT Project Management)
- MISY Elective **3 sem. hrs.**
- Nonbusiness Elective **3 sem. hrs.**

Total: 15

Note:

*Core Curriculum Program

**Any international business course may be substituted.

Minor

Economics Minor

(for Business and Nonbusiness Majors)

This minor is designed to serve students who are interested in supplementing their majors with an added knowledge of economics. A minimum of twelve hours must be taken at Texas A&M University-Corpus Christi. For additional information, contact the academic advisor in the College of Business.

Required Courses* (9 sem. hrs.)

- ** ECON 2301 - Macroeconomics Principles **3 sem. hrs.**
- ECON 2302 - Microeconomics Principles **3 sem. hrs.**

- ECON 3310 - Intermediate Macroeconomics **3 sem. hrs.** OR
- ECON 3311 - Intermediate Microeconomics **3 sem. hrs.**

Electives:

Select 3 of the following courses (if not already taken as required courses)

- ECON 3310 - Intermediate Macroeconomics **3 sem. hrs.**
- ECON 3311 - Intermediate Microeconomics **3 sem. hrs.**
- ECON 3315 - International Economic Issues **3 sem. hrs.**
- ECON 3312 - Money and Banking **3 sem. hrs.**
- ECON 3316 - Environmental Economics **3 sem. hrs.**
- ECON 3320 - Public Finance **3 sem. hrs.**
- ECON 3322 - Managerial Economics **3 sem. hrs.**
- ECON 4388 - History of Economic Thought **3 sem. hrs.**
- ECON 4310 - Introduction to Econometrics **3 sem. hrs.**

Total: 18

Note:

**Core Curriculum Program

Management Information Systems Minor

(for Business and Nonbusiness Majors)

This minor is designed for students who are interested in supplementing their major with applied computer knowledge. A minimum of 12 hours must be taken at Texas A&M University-Corpus Christi. For additional information contact the academic advisor in the College of Business.

Required Courses*

- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- MISY 3320 - Business Data Communication and Networking I **3 sem. hrs.**
- MISY 3330 - Database Management **3 sem. hrs.**
- MISY 3340 - Systems Analysis and Design **3 sem. hrs.**
- Approved MISY or COSC elective **3 sem. hrs.**

Total: 18

Note:

Personal Financial Planning Minor

(for Business and Nonbusiness Majors)

This minor is designed to serve business and nonbusiness students who are interested in supplementing their major with additional knowledge and skills in the financial planning areas of Personal Finance, Real Estate Principles, Insurance Principles, and Retirement Planning, and Employee Benefits. A minimum of 12 hours must be taken at Texas A&M University-Corpus Christi. For additional information, contact the academic advisor in the College of Business.

For Nonbusiness Majors:

Required Courses*

- FINA 1307 - Personal Finance **3 sem. hrs.**
- FINA 3351 - Insurance Principles **3 sem. hrs.**
- FINA 3354 - Real Estate Principles **3 sem. hrs.**
- FINA 3355 - Employee Benefits and Retirement Planning **3 sem. hrs.**

Designated Electives:

Choice of six credit hours (two courses) from this list:

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- ECON 3312 - Money and Banking **3 sem. hrs.**
- FINA 3331 - Investments **3 sem. hrs.**
- FINA 4396 - Directed Individual Study **1-3 sem. hrs.** or **6 sem. hrs.**
- MATH 1324 - Business Mathematics **3 sem. hrs.**

Total: 18

For Business Majors:

Required Courses*

- FINA 1307 - Personal Finance **3 sem. hrs.**

- FINA 3351 - Insurance Principles **3 sem. hrs.**
- FINA 3354 - Real Estate Principles **3 sem. hrs.**
- FINA 3355 - Employee Benefits and Retirement Planning **3 sem. hrs.**

Designated Electives:

Choice of six credit hours (two courses) from this list:

- ACCT 3321 - Federal Income Tax I **3 sem. hrs.**
- ECON 3312 - Money and Banking **3 sem. hrs.**
- FINA Elective - Upper Division Finance Electives (excluding Finance Internship) **3 or 6 sem. hrs.**

Total: 18

Note:

Management and Marketing

Bachelor of Business Administration

Management with Emphases in General Management, Health Care Administration, and Human Resource Management, BBA

Management with Emphases in General Management, Health Care Administration, and Human Resource Management Major

The major is designed to provide entry-level knowledge, skills, and concepts for general management, human resource management, and health care positions. Management majors take a common core of management courses. These courses provide a basic understanding of the nature of organizations, effective acquisition and utilization of human and physical resources, and the skills required to carry out the managerial functions of planning, organizing, directing, and controlling. Students who are interested in broadening their understanding of these basic concepts may choose a general management emphasis. Those who want a more specific focus may choose an emphasis in human resource management (HRM) or health care management (HCM).

An emphasis in HRM provides the student a concentration of courses focusing on human resource concepts such as staffing, labor relations, human resource problems and human resource law. The emphasis in HCM gives students the option of completing their major with courses in health care issues, health care systems, and marketing and budgeting principles for health science practitioners.

A sound background in management fundamentals, coupled with applied classroom experiences, can accelerate an individual's progress in obtaining positions of greater responsibility. Students completing the major will be better prepared to handle supervisory or managerial positions in profit, not-for-profit, and governmental organizations.

Student Learning Outcome: Students will demonstrate an understanding of the functions, principles and practices, common to the major areas of management.

All courses in business foundation curriculum must be completed in all options.

Student Learning Outcomes

Students will:

1. Demonstrate the ability to communicate effectively.
2. Demonstrate the ability to use analytical skills supported by information technology for problem-solving and decision-making.
3. Demonstrate professionalism through interpersonal skills, including an understanding of ethical issues and governance responsibilities.
4. Comprehend and explain the basic business functions of accounting, economics, finance, management, management systems, and marketing.
5. Analyze and synthesize the integration of business functions in diverse cultural settings and the global marketplace.

Additionally, a separate major-specific goal is listed for each major in its respective section.

MAJOR FIELD TEST

As an integral part of the College of Business' Assurance of Learning program, the Major Field Test (MFT) is a nationally-normed, standardized multiple-choice test developed by the Educational Testing Service and administered to senior-level business students at many AACSB International accredited institutions in the United States. It is designed to measure students' academic achievement through demonstration of their basic knowledge and understanding of key concepts, theories, and analytical methods in the functional areas of business. This test covers the areas of accounting, economics, finance, international issues, legal and social environment of business, management, marketing, quantitative business analysis, and information systems.

The MFT is required for all students pursuing the Bachelor of Business Administration degree and will be administered in MGMT 4388, Administrative Policy and Strategy. To prepare for this test, business majors are advised to retain their class notes, textbooks, and other relevant materials from their business core courses in the areas referenced above. Also, to prepare for the MFT, business majors are required to enroll in BUSI 0088 concurrently with MGMT 4388. BUSI 0088 is a non-credit Major Field Test review course.

General Management Emphasis

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Business Core	45
D. Major Requirements	24
E. Electives	9
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Health Care Emphasis

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Business Core	45
D. Major Requirements	24
E. Electives	9
	120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Human Resource Management Emphasis

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Business Core	45
D.	Major Requirements	24
E.	Electives	9
		Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

General Requirements for BBA Degree

All students seeking the BBA must complete (1) the general studies core prescribed by the University as outlined in the business foundation curriculum, (2) a common core of business courses, (3) courses in the major area specified by the major academic department, and (4) upper division business electives to achieve a minimum of 120-122 semester hours, depending on the need for first-year seminar hours. All students must complete at least 45 hours of junior or senior level courses; at least 45 of these upper-level hours must be in business or economics.

To ensure compliance with the course requirements for a BBA degree, first and second year students should follow the general sequence of courses specified for the business foundation curriculum. Juniors and seniors should follow the sequence outlined in the catalog for their major academic area. **Course prerequisites are strictly enforced**.

Business Core

To provide a common background in business, all students seeking the BBA are required to complete the following courses or their equivalents:

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- * MATH 1325 - Business Calculus **3 sem. hrs.** **

- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.** ***
- OPSY 4314 - Operations Management **3 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**

Note:

* Core Curriculum Program ECON 2302 is an option to satisfy the Core Curriculum Program three hour requirement in economics. Students who completed ECON 2302 in the University Core must take ECON 2301 in the Business Core.

** MATH 2413 - Calculus I may be taken as substitute for MATH 1325. Only 3 hours of MATH 2413 will be counted in Core Curriculum Program requirements, the additional laboratory hour will be counted as an elective.

*** Some majors require a specific international course.

Business Foundation Curriculum

Freshman - Semester I

- BUSI 0011 - Cob Student Code of Ethics and Plagiarism **0 sem. hrs.**
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- * HIST 1301 - U.S. History to 1865 **3 sem. hrs.**
- * ENGL 1301 - Composition I **3 sem. hrs.**
- * POLS 2305 - U.S. Government and Politics **3 sem. hrs.**
- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**

Select one of these 3 hour courses:

- * COMM 1305 - Film and Culture **3 sem. hrs.** OR
- * ARTS 1301 - Art and Society **3 sem. hrs.** OR
- * MUSI 1306 - Understanding and Enjoying Music **3 sem. hrs.** OR
- * MUSI 1307 - Elements of Musical Style **3 sem. hrs.** OR
- * THEA 1310 - The Art of the Theatre **3 sem. hrs.**

Total: 16

Freshman - Semester II

- * ENGL 1302 - Composition II **3 sem. hrs.**
- * Natural Science requirement **3-4 sem. hrs.**
- HIST 1302 - U.S. History Since 1865 **3 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Select one of these 3 hour courses:

- * PSYC 2301 - General Psychology **3 sem. hrs.** OR
- * SOCI 1301 - Human Societies **3 sem. hrs.**

Total: 13-14

Sophomore - Semester I

- * ECON 2301 - Macroeconomics Principles **3 sem. hrs.**
- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- * MATH 1324 - Business Mathematics **3 sem. hrs.**
- * Natural Science Requirement **3-4 sem. hrs.**

Select one of these 3 hour courses:

- * ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.** OR
- * ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.** OR
- * ENGL 2334 - Themes and Genres in English Literatures **3 sem. hrs.** OR
- * ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.** OR
- * SPAN 3307 - Spanish Literature I **3 sem. hrs.** OR
- * SPAN 3308 - Spanish Literature II **3 sem. hrs.** OR
- * SPAN 3309 - Spanish American Literature I **3 sem. hrs.** OR
- * SPAN 3310 - Spanish American Literature II **3 sem. hrs.**

Total: 15-16

Sophomore - Semester II

- * POLS 2306 - State and Local Government **3 sem. hrs.**
- MATH 1325 - Business Calculus **3 sem. hrs.**
- * COMM 1315 - Public Speaking **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**

- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- Business Elective **3 sem. hrs.**

Total: 18

Note:

*Core Curriculum Program

General Management Emphasis

Complete the Business Foundation Curriculum in the freshman and sophomore years.

Junior - Semester I

- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**

Total: 15

Junior - Semester II

- MGMT 3320 - Concepts of Human Resource Management **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- MGMT 3355 - Organization Change and Development **3 sem. hrs.**
- Upper-level Business Elective **3 sem. hrs.**

Total: 15

Senior - Semester I

- OPSY 4314 - Operations Management **3 sem. hrs.**
- MGMT 4315 - Multinational Management **3 sem. hrs.** **
- MGMT 4320 - Leadership and Managerial Effectiveness **3 sem. hrs.**
- 2 MGMT Electives **6 sem. hrs.**

Total: 15

Senior - Semester II

- MGMT 4340 - Critical Thinking and Decision Making **3 sem. hrs.**
- BUSI 0088 - Major Field Test Review **0 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**
- MGMT Elective **3 sem. hrs.**
- Upper-level Business Elective **3 sem. hrs.**
- Nonbusiness Elective **3 sem. hrs.**

Total: 15

Note:

*Core Curriculum Program

**Another College of Business international course may be used as a substitute with the approval of the department chair.

Health Care Emphasis

Complete the Business Foundation Curriculum in the freshman and sophomore years.

Junior - Semester I

- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**

Total: 15

Junior - Semester II

- MGMT 3320 - Concepts of Human Resource Management **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- BLAW 4350 - Human Resource Law **3 sem. hrs.**
- Approved Course in Health Care** **3 sem. hrs.**

Total: 15

Senior - Semester I

- OPSY 4314 - Operations Management **3 sem. hrs.**
- MGMT 4305 - Staffing and Development **3 sem. hrs.**
- MGMT 4315 - Multinational Management **3 sem. hrs. *****
- Upper-level Business Elective **3 sem. hrs.**
- Upper-level Business Elective **3 sem. hrs.**

Total: 15

Senior - Semester II

- MGMT 4385 - Human Resource Planning **3 sem. hrs.**
- BUSI 0088 - Major Field Test Review **0 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**
- MGMT Elective **3 sem. hrs.**
- Approved Electives in Health Care **6 sem. hrs.** **

Total: 15

Note:

*Core Curriculum Program

Possible electives in Health Care **exclude HLSC 4300.

***Another College of Business international course may be used as a substitute with the approval of the department chair.

Human Resource Management Emphasis

Complete the Business Foundation Curriculum in the freshman and sophomore years.

Junior - Semester I

- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**

Total: 15

Junior - Semester II

- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- MGMT 3320 - Concepts of Human Resource Management **3 sem. hrs.**
- MGMT Elective **3 sem. hrs.**
- Upper-level Business Elective **3 sem. hrs.**

Total: 15

Senior - Semester I

- MGMT 4305 - Staffing and Development **3 sem. hrs.**
- MGMT 4315 - Multinational Management **3 sem. hrs.** **
- MGMT 4335 - Compensation and Appraisal Systems **3 sem. hrs.**
- OPSY 4314 - Operations Management **3 sem. hrs.**
- Upper-level business elective **3 sem. hrs.**

Total: 15

Senior - Semester II

- BLAW 4350 - Human Resource Law **3 sem. hrs.**
- MGMT 4385 - Human Resource Planning **3 sem. hrs.**
- BUSI 0088 - Major Field Test Review **0 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**
- MGMT Elective **3 sem. hrs.**
- Nonbusiness Elective **3 sem. hrs.**

Total: 15

Note:

*Core Curriculum Program

**Another College of Business international course may be used as a substitute with the approval of the department chair.

Marketing, BBA

Marketing Major

The marketing curriculum is designed to help students prepare for careers in fields such as retailing, distribution, marketing research, advertising, and personal selling. The program provides knowledge and competencies that facilitate acquiring and succeeding in entry-level positions and moving into marketing management positions or business ownership. Emphasis is on development of analytical skills adequate for and appropriate to professional marketing activities in a highly competitive global market place. Marketing courses stress problem solving and decision making and the development and implementation of competitive policies and strategies.

Student Learning Outcome: Students will demonstrate an understanding of the principles and practices common to the major areas of marketing.

Complete the Business Foundation Curriculum in the freshman and sophomore years.

Student Learning Outcomes

Students will:

1. Demonstrate the ability to communicate effectively.
2. Demonstrate the ability to use analytical skills supported by information technology for problem-solving and decision-making.
3. Demonstrate professionalism through interpersonal skills, including an understanding of ethical issues and governance responsibilities.
4. Comprehend and explain the basic business functions of accounting, economics, finance, management, management systems, and marketing.
5. Analyze and synthesize the integration of business functions in diverse cultural settings and the global marketplace.

Additionally, a separate major-specific goal is listed for each major in its respective section.

MAJOR FIELD TEST

As an integral part of the College of Business' Assurance of Learning program, the Major Field Test (MFT) is a nationally-normed, standardized multiple-choice test developed by the Educational Testing Service and administered to senior-level business students at many AACSB International accredited institutions in the United States. It is designed to measure students' academic achievement through demonstration of their basic knowledge and understanding of key concepts, theories, and analytical methods in the functional areas of business. This test covers the areas of accounting, economics, finance, international issues, legal and social environment of business, management, marketing, quantitative business analysis, and information systems.

The MFT is required for all students pursuing the Bachelor of Business Administration degree and will be administered in MGMT 4388, Administrative Policy and Strategy. To prepare for this test, business majors are advised to retain their class notes, textbooks, and other relevant materials from their business core courses in the areas referenced above. Also, to prepare for the MFT, business majors are required to enroll in BUSI 0088 concurrently with MGMT 4388. BUSI 0088 is a non-credit Major Field Test review course.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Business Core	45
D. Major Requirements	24
E. Electives	9
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

General Requirements for BBA Degree

All students seeking the BBA must complete (1) the general studies core prescribed by the University as outlined in the business foundation curriculum, (2) a common core of business courses, (3) courses in the major area specified by the major academic department, and (4) upper division business electives to achieve a minimum of 120-122 semester hours, depending on the need for first-year seminar hours. All students must complete at least 45 hours of junior or senior level courses; at least 45 of these upper-level hours must be in business or economics.

To ensure compliance with the course requirements for a BBA degree, first and second year students should follow the general sequence of courses specified for the business foundation curriculum. Juniors and seniors should follow the sequence outlined in the catalog for their major academic area. **Course prerequisites are strictly enforced**.

Business Core

To provide a common background in business, all students seeking the BBA are required to complete the following courses or their equivalents:

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- * MATH 1325 - Business Calculus **3 sem. hrs.** **
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.** ***
- OPSY 4314 - Operations Management **3 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**

Note:

* Core Curriculum Program ECON 2302 is an option to satisfy the Core Curriculum Program three hour requirement in economics. Students who completed ECON 2302 in the University Core must take ECON 2301 in the Business Core.

** MATH 2413 - Calculus I may be taken as substitute for MATH 1325. Only 3 hours of MATH 2413 will be counted in Core Curriculum Program requirements, the additional laboratory hour will be counted as an elective.

*** Some majors require a specific international course.

Business Foundation Curriculum

Freshman - Semester I

- BUSI 0011 - Cob Student Code of Ethics and Plagiarism **0 sem. hrs.**
- MISY 2305 - Computer Applications in Business **3 sem. hrs.**
- * HIST 1301 - U.S. History to 1865 **3 sem. hrs.**
- * ENGL 1301 - Composition I **3 sem. hrs.**
- * POLS 2305 - U.S. Government and Politics **3 sem. hrs.**
- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**

Select one of these 3 hour courses:

- * COMM 1305 - Film and Culture **3 sem. hrs.** OR
- * ARTS 1301 - Art and Society **3 sem. hrs.** OR
- * MUSI 1306 - Understanding and Enjoying Music **3 sem. hrs.** OR
- * MUSI 1307 - Elements of Musical Style **3 sem. hrs.** OR
- * THEA 1310 - The Art of the Theatre **3 sem. hrs.**

Total: 16

Freshman - Semester II

- * ENGL 1302 - Composition II **3 sem. hrs.**
- * Natural Science requirement **3-4 sem. hrs.**
- HIST 1302 - U.S. History Since 1865 **3 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Select one of these 3 hour courses:

- * PSYC 2301 - General Psychology **3 sem. hrs.** OR
- * SOCI 1301 - Human Societies **3 sem. hrs.**

Total: 13-14

Sophomore - Semester I

- * ECON 2301 - Macroeconomics Principles **3 sem. hrs.**

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- * MATH 1324 - Business Mathematics **3 sem. hrs.**
- * Natural Science Requirement **3-4 sem. hrs.**

Select one of these 3 hour courses:

- * ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.** OR
- * ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.** OR
- * ENGL 2334 - Themes and Genres in English Literatures **3 sem. hrs.** OR
- * ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.** OR
- * SPAN 3307 - Spanish Literature I **3 sem. hrs.** OR
- * SPAN 3308 - Spanish Literature II **3 sem. hrs.** OR
- * SPAN 3309 - Spanish American Literature I **3 sem. hrs.** OR
- * SPAN 3310 - Spanish American Literature II **3 sem. hrs.**

Total: 15-16

Sophomore - Semester II

- * POLS 2306 - State and Local Government **3 sem. hrs.**
- MATH 1325 - Business Calculus **3 sem. hrs.**
- * COMM 1315 - Public Speaking **3 sem. hrs.**
- * ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- Business Elective **3 sem. hrs.**

Total: 18

Note:

*Core Curriculum Program

Junior - Semester I

- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- ORMS 3310 - Data Analysis and Statistics **3 sem. hrs.**
- MGMT 3315 - Communicating in Business **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**

Total: 15

Junior - Semester II

- FINA 3310 - Financial Management **3 sem. hrs.**
- MISY 3310 - Management Information Systems Concepts **3 sem. hrs.**
- Marketing Elective **3 sem. hrs.**

Select one of these 3 hour courses:

- MKTG 3315 - Advertising and Promotional Strategy **3 sem. hrs.** OR
- MKTG 4310 - Distribution Systems in Marketing **3 sem. hrs.** OR
- MKTG 4340 - International Marketing. **3 sem. hrs.**
- MKTG Elective **3 sem. hrs**.

Total: 15

Senior - Semester I

- MKTG 4320 - Marketing Research and Analytics **3 sem. hrs.**
- Marketing Elective **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.** **
- OPSY 4314 - Operations Management **3 sem. hrs.**
- Upper-level Business Elective **3 sem. hrs.**

Total: 15

Senior - Semester II

- MKTG 4350 - Marketing Problems and Policies **3 sem. hrs.**
- Marketing Electives **6 sem. hrs.**
- BUSI 0088 - Major Field Test Review **0 sem. hrs.**
- MGMT 4388 - Administrative Policy and Strategy **3 sem. hrs.**
- Nonbusiness Elective **3 sem. hrs.**

Total: 15

Note:

*Core Curriculum Program

**Another College of Business international or upper level course may be used as a substitute with the approval of the department chair.

Minor

Business Administration Minor

(for Nonbusiness Majors)

The minor is designed to provide a foundation of business knowledge for students who want to complement a nonbusiness bachelor's program with a planned business program. Students who select the minor must establish a record with the academic advisor in the College of Business and be certified by the Dean of the College of Business upon application for graduation. A minimum of 18 hours is required for the minor. At least 12 of these hours must be taken at Texas A&M University-Corpus Christi.

Required Courses*

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- FINA 3310 - Financial Management **3 sem. hrs.** ** or any other upper-level FINA class
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.** ***

Total: 18

Note:

* Courses may not be applied to both a major and a minor. Refer to course descriptions for prerequisites.

** It is assumed that all students have completed ECON 2301, ACCT 2301, and ACCT 2302.

***Substitute an upper-level business course if equivalent course was transferred from a Junior College.

Nonbusiness undergraduate students planning to enter a Master of Business Administration program are advised to take FINA 3310 and complete the Minor in Business Administration to satisfy part of the foundation requirements for the MBA.

Entrepreneurship Minor

(for Business and Nonbusiness Majors)

This minor is designed for students who wish to supplement their major with applied course work in the field of entrepreneurship and who would like to explore the possibilities of starting their own business. A minimum of 12 hours must be taken at Texas A & M University-Corpus Christi.

Required Courses*

Nonbusiness majors will take these six courses:

- BUSI 1310 - Introduction to the Business Environment **3 sem. hrs.**
- FINA 1307 - Personal Finance **3 sem. hrs.**
- BUSI 3315 - Entrepreneurship, Creativity, & Innovation **3 sem. hrs.**
- MKTG 3325 - Entrepreneurial Marketing **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.**
- BUSI 4320 - New Venture Creation **3 sem. hrs.**

Total: 18

Note:

Business majors will take two 3 hour upper-level Marketing courses, not applied towards their major, in lieu of BUSI 1310 and BUSI 4310.

Human Resource Management Minor

(for Business and Nonbusiness Majors)

This minor is designed for students seeking to supplement their major with a human resource management dimension. A minimum of 12 hours must be taken at Texas A & M University-Corpus Christi.

Required courses*

Nonbusiness majors will take all these six courses:

- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MGMT 3320 - Concepts of Human Resource Management **3 sem. hrs.**
- MGMT 4305 - Staffing and Development **3 sem. hrs.**
- MGMT 4335 - Compensation and Appraisal Systems **3 sem. hrs.**
- MGMT 4385 - Human Resource Planning **3 sem. hrs.**
- BLAW 4350 - Human Resource Law **3 sem. hrs.**

Total: 18

Since MGMT 3312 is required for business majors as part of the business core, in addition to the other five required courses above, business majors will take one of the following electives:

- FINA 3355 - Employee Benefits and Retirement Planning **3 sem. hrs.**
- MGMT 3355 - Organization Change and Development **3 sem. hrs.**
- MGMT 4315 - Multinational Management **3 sem. hrs.**
- MGMT 4320 - Leadership and Managerial Effectiveness **3 sem. hrs.**
- MGMT 4390 - Current Topics in Management **1-3 sem. hrs.**

Note:

International Business Minor

(for Business and NonBusiness Majors)

This minor is designed to serve students who are interested in supplementing their major with a global dimension. A minimum of 12 hours must be taken at Texas A&M University-Corpus Christi. For additional information, contact the academic advisor in the College of Business.

Required Courses*

- ACCT 3315 - Multinational Entities: Accounting and Consolidations **3 sem. hrs.**
  OR
- ECON 3315 - International Economic Issues **3 sem. hrs.**
- FINA 4315 - International Finance **3 sem. hrs.**
- MGMT 4315 - Multinational Management **3 sem. hrs.**
- MKTG 4340 - International Marketing. **3 sem. hrs.**
- BUSI 4310 - International Business **3 sem. hrs.**
- Approved upper level elective **3 sem. hrs.**

Total: 18

Note:

Management Minor

(for Business and Nonbusiness Majors)

This minor is designed for students seeking to supplement their major with a management dimension. A minimum of 12 hours must be taken at Texas A&M University-Corpus Christi. For additional information, contact the academic advisor in the College of Business.

Required courses*

Nonbusiness majors will take all these six courses:

- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- MGMT 3320 - Concepts of Human Resource Management **3 sem. hrs.**
- MGMT 3355 - Organization Change and Development **3 sem. hrs.**
- MGMT 4315 - Multinational Management **3 sem. hrs.**
- MGMT 4320 - Leadership and Managerial Effectiveness **3 sem. hrs.**
- MGMT 4340 - Critical Thinking and Decision Making **3 sem. hrs.**

Total: 18

Since MGMT 3312 is required for business majors as part of the business core, in addition to the other five required course above, business majors will take one of the following electives:

- MGMT 4305 - Staffing and Development **3 sem. hrs.**
- MGMT 4335 - Compensation and Appraisal Systems **3 sem. hrs.**
- MGMT 4385 - Human Resource Planning **3 sem. hrs.**
- MGMT 4390 - Current Topics in Management **1-3 sem. hrs.**

Note:

Marketing Minor

(for Business and Nonbusiness Majors)

This minor is designed to serve students who are interested in supplementing their major with additional basic knowledge and skills in marketing. A minimum of 12 hours must be taken at Texas A&M University-Corpus Christi. For additional information, contact the academic advisor in the College of Business.

Required Courses*

- MKTG 3310 - Principles of Marketing **3 sem. hrs.** **
- MKTG 3315 - Advertising and Promotional Strategy **3 sem. hrs.**
- MKTG 3330 - Consumer Behavior **3 sem. hrs.**

Electives:

(Choose nine hours from the following**)

- MKTG 3311 - Salesmanship: Concepts and Practices **3 sem. hrs.**
- MKTG 3320 - Basic Advertising **3 sem. hrs.**
- MKTG 3340 - Retail Management **3 sem. hrs.**
- MKTG 3345 - Sales Management **3 sem. hrs.**
- MKTG 4310 - Distribution Systems in Marketing **3 sem. hrs.**
- MKTG 4320 - Marketing Research and Analytics **3 sem. hrs.**
- MKTG 4340 - International Marketing. **3 sem. hrs.**
- MKTG 4350 - Marketing Problems and Policies **3 sem. hrs.**
- MKTG 4390 - Current Topics in Marketing **1-3 sem. hrs.**

Note:

**Since MKTG 3310 is required for business majors as part of the business core, business majors will take an additional 3 hour course from the electives for the minor in marketing.

College of Education

College of Education

Degrees

- Athletic Training, BS
- Interdisciplinary Studies, BSIS
- Kinesiology, BS

Teacher Certificates

- Elementary Teacher Certification
- Grades 4-8 Mathematics Certification
- Secondary/EC-12 Teacher Certification

Other Programs

- Education Minor
- Kinesiology Minor
- Military Science
- Military Science Minor

"Expanding Possibilities, Creating Solutions"

Mission

The College of Education at Texas A&M University–Corpus Christi, devoted to excellence in instruction, research, and service, prepares leaders representing diverse backgrounds and experiences, to serve the educational needs in the global community.

Undergraduate Programs

The College of Education (COE) offers the Bachelor of Science in Interdisciplinary Studies degree and the Bachelor of Science Degree with majors in Kinesiology, and Athletic Training. The Bachelor of Applied Science in Childhood Development/Early Childhood degree is designed for graduates of Applied Arts and Science programs in Child Development, as well as child care providers who seek additional qualifications (see College of Liberal Arts for degree program description. Students may also receive a military commission through the Military Science program and a minor in Military Science.

Field-Based Program

The COE is committed to a field-based professional development program. Early in their program, students are required to spend a significant portion of their professional development courses observing and working with experienced teachers in the local school districts. Subsequent course work is taught at the school sites, with the students utilizing the setting to become actively involved in applying the concepts learned in the lectures. The field-based program culminates in the student teaching experience, wherein the student is assigned on a one-to-one basis with an experienced master teacher and moves from observation, through cooperative teaching, to full responsibility for a class.

Undergraduate Program General Requirements

General University degree requirements are discussed in the "Undergraduate Programs" section of this catalog. COE degree requirements follow:

Total Hours

A minimum of 120 semester hours of credit is required for graduation. Some curricula or combinations of fields require more. No developmental course work may be applied toward the degree.

Grade Point Average

Requirements for graduation include a minimum grade point average of 2.00 on a four-point scale on all academic work attempted, and a minimum grade point average of 2.00 in the major field(s) of study. For admission to and retention in teacher education, the GPA requirement is 2.75 on the last 60 hours attempted (TEC 21.0441).

THEA Requirement

All sections of the Texas Higher Education Assessment (THEA) test must be passed **PRIOR** to enrolling in any 4000 level undergraduate EDUC course. The passing scores are: 250 on the Reading section, 230 on the Mathematics section, and 240 on the Writing section. Exemptions will be granted for people with a score of 26 or higher on the ACT or a score of 1180 or higher on the SAT. For clarification, please contact either the Certification Office or an academic advisor in the COE.

Degree Plans

Students interested in seeking a degree offered by the College of Education are encouraged to see an academic advisor to discuss their interests. After consultation with the student, the academic advisor will prepare a degree plan and assign a faculty advisor who will mentor the student regarding academic and career interests. Once reviewed by the faculty advisor and the certification officer, the degree plan will be labeled "official" by the academic advisor. The degree plan will follow the student through to graduation. Students are encouraged to visit their academic and faculty advisors once a semester to audit their progress and ensure they are following their designated plan. Students may change official degree plans by seeing an academic advisor and repeating the process.

Requirements for Programs Leading to Teacher Certification

Admission to and Retention in the Teacher Education Program (Field Based Program)

Students following a degree plan leading to teacher certification must be admitted to the Teacher Education Program at Texas A&M University-Corpus Christi PRIOR to enrolling in any 4000 level EDUC courses. Application forms for admission to the teacher education program may be obtained from COE Student Services in FC 201 and online at COE website.

The student expecting to enter a program leading to teacher certification should apply for admission to the Teacher Education Program and the pre-service block experience as part of the course responsibilities for EDUC 3311. These application forms may be obtained from COE Student Services and online at the COE website at http://education.tamucc.edu/.

In addition to the requirements listed below, students must meet any additional requirements set by the specific certification teaching fields. See catalog sections for individual teaching fields (e.g., Mathematics, English, History) for these requirements. Requirements for admission to, and retention in, the Teacher Education Program include:

1. Completion of the application process for admission to teacher education. (If denied admission, the student must reapply.)
2. A minimum grade point average of 2.75 on all academic work attempted or a 2.75 on the last 30 hours attempted.
3. A satisfactory score on all sections of the THEA (Reading 250; Math 230; Writing 240), and completion of the requirement in the area of critical thinking. Exemptions will be granted for people with a score of 26 or higher on the ACT or a score of 1180 or higher on the SAT.
4. Completion of the University requirement in oral communication.
5. Conduct an interview with Department of Teacher Education faculty while enrolled in EDUC 3311.
6. Completion of EDUC 3311 with a grade of "C" or better.
7. Prerequisite courses
8. Thirty-nine hours of the General Education Requirements.
9. A minimum GPA of 2.75 on all academic work taken in the student's teaching field(s), area of specialization or delivery system. Teaching certificate areas (i.e., History, English, Science and others) may require above the minimum grade point average of 2.75 and may not accept grades below "C". Students are to check the catalog section that pertains to the certificate area for required GPA's.
10. Completion of a criminal background check form.
11. Completion of TB screening.

Verified admission to teacher education from another Texas institution of higher education will be accepted, provided that the quantitative standards from such other institutions equaled or exceeded those that existed at Texas A&M University-Corpus Christi at the time the student was admitted at the other institution.

NOTE: A fingerprint-based national criminal background investigation is conducted on all applicants for initial certification by the State Board for Educator Certification in Compliance with State Statute 19 TAC SS 141.5. Applicants for the Teacher Education program will also be subject to a criminal background check by the partner school district. Districts have the right to refuse any individual access to their schools and/or students at ANY time and Texas A&M University-Corpus Christi is obligated to honor that request. Inability to complete field requirements will preclude an individual from successfully meeting course requirements.

Admission to Student Teaching

All teacher preparation programs offered by this University require appropriate professional laboratory experiences. All programs, with the exception of Occupational Training and Development, require nine semester hours of student teaching experiences. Students may register for student teaching during their senior year only after they have been granted admission in writing by the Field Experiences Office. Student teaching must be completed at Texas A&M University-Corpus Christi, unless the Director of Field Experiences has approved a cooperative agreement with another university and written documentation is on file in the Office of Field Experiences.

Online application for admission to student teaching must be made at http://te.tamucc.edu/. The deadline for submitting applications is March 1 for students seeking FALL placement; July l is the deadline for students seeking SPRING placement.

Requirements that must be fulfilled before admission to student teaching can be granted include:

1. Admission to the Teacher Education Program.
2. Completion of a minimum of 100 semester hours of acceptable university work.
3. A minimum grade point average of 2.75 on all academic work attempted or the last 30 hours attempted.
4. Completion of 80% of the required semester hours in general education including 9 semester hours of English and 3 semester hours of public speaking.
5. Completion of EDUC 3311 - School and Society; EDUC 4311 - Classroom Management: All Level EDUC 4312 - Classroom Management: Grades 7-12, EDUC 4313 - Classroom Management: Grades 4-8 or EDUC 4314 - Classroom Management: Grades EC-6; and EDUC 4605, EDUC 4606 or EDUC 4607 or EDUC 4608; and any ELEM, BIEM, SPED, READ, MATH, KINE courses with a grade of "C" or better.
6. Completion of 80% of the courses required in the student's teaching field(s), areas of specialization, or delivery system.
7. A minimum GPA of 2.75 on all academic work taken in the student's teaching field(s), area of specialization, or delivery system. Teaching certificate areas (i.e., History, English, Science and others) may require above the minimum grade point average of 2.75 and may not accept grades below "C". Students are to check the catalog section that pertains to the certificate area for required GPA's.
8. Completion at Texas A&M University-Corpus Christi of a minimum of 6 semester hours of required professional education courses at the student's level of certification, for transfer students only.
9. Completion of "Fall Experience" (beginning-of-the-year activities in the public schools) and submission of a written summary is required for ALL students seeking placement. In order to be scheduled for this, candidates should sign up in the Office of Field Experiences during the month of May PRIOR to the fall or spring semester they will student teach.
10. Concurrent enrollment in the following course (3 credit hours) for undergraduate or field-based students only:

(All Level: EC-12)	(Grades 7-12)	(Grades 4-8)	(Grades EC-6)
EDUC 4321 - Instructional Design for Special Populations: All Level	EDUC 4322 - Instructional Design for Special Populations: Grades 7-12 EDUC 4322 - Instructional Design for Special Populations: Grades 7-12	EDUC 4323 - Instructional Design for Special Populations: Grades 4-8	EDUC 4324 - Instructional Design for Special Populations: Grades EC-6

11. Students must pass their content TExES test prior to student teaching.

Student teaching is a Monday through Friday, all-day, all-semester assignment. The demands are equivalent to a full course load. It is strongly recommended that students consider this factor seriously before registering for additional courses concurrent with student teaching in addition to those mentioned above.

Program of Field Experiences

Students enrolled in degree programs that lead to teacher certification are required to complete a comprehensive program of structured laboratory experiences. These will range from classroom observations to extensive classroom involvement as the student progresses through his or her program. Courses that are designated as Field-Based will require students to spend a minimum of 51% of the course time in a school setting. Students should check with the instructor to determine the field experience requirements for specific courses.

Texas Examinations of Educator Standards (TExES)

In addition to successful completion of all courses, to be recommended for teacher certification, students must pass all appropriate TExES examinations required by the State Board for Educator Certification.

Certification programs must be completed or permission must be obtained from the program coordinator or designated person from the teaching field on the student's degree plan before permission will be granted to take certification examinations.

Recommendation for Teacher Certification

Teacher certification by the State of Texas is not automatically granted with the completion of an approved program of study. The student must first be recommended for certification by the COE. In order to be recommended a student must:

1. Have successfully completed the appropriate degree program.
2. Have successfully completed the appropriate approved certification program with an overall GPA of 2.75 or 2.75 on the last 30 hours of course work attempted.
3. Have completed the appropriate student teaching experience with a grade of "C" or better.
4. Have passed all appropriate TExES tests. In addition, students seeking certification in Bilingual Education must have passed the Bilingual Target Language Proficiency Test (BTLPT).
5. Submit an application on line for certification and an application fee to the Texas Eduation Agency. (TEA).

Certification for Persons Holding Degrees

See "Graduate-Level Initial Teaching Certification Program" in the College of Education section of the Graduate Catalog.

Undergraduate Courses

The College of Education offers undergraduate courses in the following fields:

Bilingual/ESL/Multicultural (BIEM)
Early Childhood (ELEM)
Health (HLTH)

Instructional Design and Educational Technology (IDET)
Kinesiology (KINE)
Military Science (MSCI)
Reading Education (READ)
Special Education (SPED)

Teacher Education (EDUC)

All course descriptions are located in course descriptions.

Requirements

Requirements for Programs Leading to Teacher Certification

BSIS EC-6 Bilingual Generalist

- READ 3320 - Principles and Practices of Reading Instruction **3 sem. hrs.**
- SMTE 1350 - Fundamentals of Mathematics I **3 sem. hrs.**

- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.** OR
- SMTE 3316 - Foundational Approaches to the Life Sciences **3 sem. hrs.**

BSIS EC-6 Generalist with a Reading Specialization

- ECED 3380 - Developmentally Appropriate Practice in Early Childhood Education **3 sem. hrs.**
- ELEM 3324 - Child Development and Appropriate Practices **3 sem. hrs.**
- READ 3320 - Principles and Practices of Reading Instruction **3 sem. hrs.**
- READ 3352 - Content Area Reading for Elementary Students **3 sem. hrs.**
- SMTE 1350 - Fundamentals of Mathematics I **3 sem. hrs.**

- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.** OR
- SMTE 3316 - Foundational Approaches to the Life Sciences **3 sem. hrs.**

BSIS 4-8 Mathematics

- READ 3321 - Principles and Practices of Reading Instruction, Grades 4 – 8 **3 sem. hrs.**
- READ 3352 - Content Area Reading for Elementary Students **3 sem. hrs.**
- SMTE 1350 - Fundamentals of Mathematics I **3 sem. hrs.**

- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.** OR
- SMTE 3316 - Foundational Approaches to the Life Sciences **3 sem. hrs.**

BSIS EC-12 Special Education

- READ 3320 - Principles and Practices of Reading Instruction **3 sem. hrs.** OR
- READ 3321 - Principles and Practices of Reading Instruction, Grades 4 – 8 **3 sem. hrs.**

- READ 3352 - Content Area Reading for Elementary Students **3 sem. hrs.** OR
- READ 3353 - Content Area Reading for Secondary Students **3 sem. hrs.**

- SMTE 1350 - Fundamentals of Mathematics I **3 sem. hrs.**

- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.** OR
- SMTE 3316 - Foundational Approaches to the Life Sciences **3 sem. hrs.**

BS EC-12 Kinesiology

- KINE 3339 - Elementary Physical Education Programs **3 sem. hrs.**
- KINE 3341 - Secondary Physical Education Programs **3 sem. hrs.**

Minor

Education Minor

The College of Education minor is designed to provide foundational and experiential knowledge of the pedagogy and professional responsibilities of teaching in grades 4-8 and 7-12. There are career avenues beyond the public or private PK-12 education setting for which integrated coursework in Education offers excellent preparation and opportunity. For example, College of Business graduates often require teaching and communication skills in the private and non-profit sectors of management and training. Others graduating with degrees in content areas like Mathematics, Chemistry, Physics, English or Sociology often seek graduate degrees in Education so that they may eventually become instructors in community colleges and professors at the university or college level.Persons who select the minor must declare the minor with a College of Education academic advisor.

Undergraduates seeking a minor in Teacher Education may not qualify for the ASCENT program.

The minor will consist of 18 hours in education. A minimum grade point average of 2.0 (“C”) on a 4-point scale is required in all courses for successful completion of the minor. The minor will consist of the following course work:

Minor Course Requirements

- EDUC 3311 - School and Society **3 sem. hrs.**
- READ 3353 - Content Area Reading for Secondary Students **3 sem. hrs.**
- IDET 3310 - Technology Applications for Teachers **3 sem. hrs.**

Choose one from the following two courses:

- *** EDUC 4606 - Planning, Teaching, Assessment and Technology for Grades 7-12 Teachers **6 sem. hrs.**
- *** EDUC 4607 - Planning, Teaching, Assessment and Technology for Grades 4-8 Teachers **6 sem. hrs.**

  Students seeking a Minor in Education must take EDCI 4606/4607 during the Fall or Spring semester only.
  ***Prerequisites required for the EDCI 4606 and EDCI 4607 course include Criminal Background check and TB Screening; and a minimum grade point average of 2.75 on all academic work attempted in the student's teaching field(s), area of specialization or delivery system or a 2.75 on the last 30 hours attempted. Please note that many teaching certificate areas (i.e. History, English,

Science and others) may require above the minimum GPA of 2.75 and may not accept grades below "C". Students are to check the undergraduate catalog section that pertains to the certificate area for required GPA's.

Choose one from the following two courses:

- EDUC 4322 - Instructional Design for Special Populations: Grades 7-12 **3 sem. hrs.**
- EDUC 4323 - Instructional Design for Special Populations: Grades 4-8 **3 sem. hrs.**

Requirements Leading to Teacher Certification

If the student desires to return to Texas A&M University-Corpus Christi after obtaining a bachelor's degree, and completes the required "content area" teacher certification requirements (i.e., Music with EC-12 Certification Pedagogy Core requirements), the student teaching block requirement, and passes the two certification exams required by the State of Texas, the student could then apply for teaching certification in Texas in grades 4-8 or 7-12 (##). In order to complete the student teaching block to obtain certification in Texas, the student must first apply and be accepted into the Teacher Education Program. Requirements for admission to, and retention in, the Teacher Education Program include:

- Completion of the "content area" certification requirements or, if holding a bachelor's degree or, if allowed in "content area," demonstration of mastery of a content area by passing a *PACT with a minimum score of 240. The *PACT must be in the same area of study as the student's undergraduate degree. The content area *PACT is one of two certification exams required by the State of Texas.
- Completion of the application process for admission to teacher education. (If denied admission, the student must reapply when requirements are met.)
- A satisfactory score on all sections of the THEA (Reading 250; Math 230; Writing 240), and completion of the requirement in the area of critical thinking. Exemptions will be granted for people with a score of 26 or higher on the ACT or a score of 1180 or higher on the SAT. If holding bachelor's degree, student is exempt from THEA requirements.
- Completion of the University requirement in oral communication.
- Completion of EDUC 3311 with a grade of "C" or better.
- Certification plan signed by an Academic Advisor, the University Certification Officer, and the Program Coordinator or designated person of each teaching field on file in the COE.

It must be noted that the Texas teaching certification approval will also be dependent upon the passing of two Texas Examinations of Educator Standards (TExES): the *PACT TExES Exam assessing the particular content area knowledge of the students' desired undergraduate degree/certification area; and the Pedagogy and Professional Responsibilities (PPR) Exam for Levels 4-8 or 7-12.

*PACT: Pre-Admission Content Test. Visit http://texes.ets.org/epp/epppact/

The student teaching block consists of the following:

Choose one from the following two courses:

- EDUC 4312 - Classroom Management: Grades 7-12 **3 sem. hrs.**
- EDUC 4313 - Classroom Management: Grades 4-8 **3 sem. hrs.**

Choose one from the following two courses:

- EDUC 4692 - Student Teaching: EC-Grade 6 **6 sem. hrs.**
- EDUC 4693 - Student Teaching: Grades 7-12 **6 sem. hrs.**

Educational Leadership, Curriculum and Instruction

Kinesiology and Military Science

Bachelor of Science

Kinesiology, BS

The Bachelor of Science Degree with a major in Kinesiology coursework includes: 1) General Education Core Requirements, 2) Kinesiology Major Requirements, 3) Special Emphasis Requirements, and 4) Special Foundations Requirements. Students majoring in kinesiology must complete all kinesiology/health-related courses (e.g., courses with a KINE or HLTH prefix) with a grade of "C" or better. Transfer credit hours in kinesiology/health-related courses must adhere to the same grade standard.

EC-12 Physical Education Certification (128 semester hours)

Students seeking a certificate to teach EC-12 Physical Education must complete the Bachelor of Science Degree in Kinesiology and complete the College of Education EC-12 Teacher Certification requirements. Information for students holding a degree and seeking certification may be obtained in the Certification Office.

Student Learning Outcomes

Students will:

- create safe, equitable, developmentally-appropriate and enjoyable movement experiences which benefit the participant and encourage life-long participation in movement;
- model a healthy, physically active lifestyle and model a life-long learner seeking opportunities to grow professionally;
- serve the community as a knowledgeable practitioner of the kinesiology profession who meets the needs of all students in a diverse society.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements	44
D.	Physical Education Certification Special Emphasis	15
E.	Physical Education Certification Special Foundations	27
		Total 128 (130)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

EC-12 Physical Education Certification Major Requirements (44* semester hours)

- KINE 1110 - Individual/Dual/Lifetime Sports **1 sem. hrs.**
- KINE 2215 - First Aid and Safety **2 sem. hrs.**
- KINE 2313 - Foundations of Kinesiology **3 sem. hrs.**
- KINE 2317 - Re-inventing Games **3 sem. hrs.**
- KINE 2325 - Physiological Aspects of Kinesiology **3 sem. hrs.**
- KINE 2375 - Nutrition for Human Performance **3 sem. hrs.**
- KINE 3337 - Psychological Aspects of Kinesiology **3 sem. hrs.**
- KINE 3338 - Motor Development/Motor Learning **3 sem. hrs.**
- KINE 3339 - Elementary Physical Education Programs **3 sem. hrs.**
- KINE 3341 - Secondary Physical Education Programs **3 sem. hrs.**
- KINE 4311 - Measurement and Evaluation **3 sem. hrs.**
- KINE 4312 - Physiology of Exercise **3 sem. hrs.**
- KINE 4112 - Physiology of Exercise Lab **1 sem. hrs.**
- KINE 4325 - Kinetic Anatomy **3 sem. hrs.**
- KINE 4327 - Biomechanics **3 sem. hrs.**
- KINE 4127 - Biomechanics Lab **1 sem. hrs.**
- KINE 4339 - Special Populations in Kinesiology **3 sem. hrs.**

Note:

*Does not include any science/math-related lab hour in the core.

EC-12 Physical Education Certification Special Emphasis (Five courses in a second emphasis area) minimum 15 semester hours

Students completing the EC-12 Physical Education Certification must complete five courses (a minimum of 15 semester hours) in a special emphasis area (second emphasis area) by their faculty mentor. Students must pass these courses with a grade of "C" or better. It is strongly recommended that students take at least one additional course beyond the required five in this discipline to better prepare for the TExES certification test taken after state issuance of initial teaching certificate in EC-12 Physical Education.

EC-12 Physical Education Certification Special Foundations (27 semester hours)

(See "College of Education Certification Requirements" in this catalog for the EDUC courses required for teacher certification). Prior to being admitted into the Field-based block course, students pursuing EC-12 Certification must complete KINE 3339 - Elementary Physical Education Programs and KINE 3341 - Secondary Physical Education Programs. Students must have a minimum grade point average of 2.75 on all academic work taken in Kinesiology prior to being admitted into the Teacher Education Program.

Exercise Science Specialization (122-125 semester hours)

Students seeking a career in exercise science should complete the requirements for the Exercise Science Specialization of the kinesiology major. This specialization serves as an excellent program for students seeking careers as fitness trainers, exercise technologists, and strength and conditioning coaches. The Exercise Science Specialization is also an exceptional preparatory program for students pursuing graduate study in Exercise Science (e.g. exercise physiology, kinesiology, biomechanics, measurement/evaluation). Graduates with a BS in Kinesiology with an Exercise Science Specialization will demonstrate knowledge of structural kinesiology, exercise physiology, biomechanics, sport psychology, and measurement and evaluation.

Student Learning Outcomes

Students will:

- apply the principles of exercise physiology to prescribe safe and effective strength and conditioning programs;
- apply the principles of biomechanics to assess the quantity and quality of human motion;
- apply the principles of sport psychology to enhance human performance;
- apply the principles of measurement and evaluation to collect, analyze, and interpret data.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	27
D. Exercise Science Special Emphasis Requirements	29-30
E. Exercise Science Special Foundations	25-27
	Total 123-126 (125-128)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Exercise Science Major Requirements (26* semester hours)

- KINE 2313 - Foundations of Kinesiology **3 sem. hrs.**
- KINE 3337 - Psychological Aspects of Kinesiology **3 sem. hrs.**
- KINE 3338 - Motor Development/Motor Learning **3 sem. hrs.**
- KINE 4311 - Measurement and Evaluation **3 sem. hrs.**
- KINE 4312 - Physiology of Exercise **3 sem. hrs.**
- KINE 4112 - Physiology of Exercise Lab **1 sem. hrs.**
- KINE 4325 - Kinetic Anatomy **3 sem. hrs.**
- KINE 4327 - Biomechanics **3 sem. hrs.**
- KINE 4127 - Biomechanics Lab **1 sem. hrs.**
- KINE 4339 - Special Populations in Kinesiology **3 sem. hrs.**

Note:

*Does not include any science/math-related lab hour in the core.

Exercise Science Special Emphasis Requirements (29-30 semester hours)

- KINE 1106 - Weight Training **1 sem. hrs.**

- KINE 2215 - First Aid and Safety **2 sem. hrs.** OR
- KINE 2315 - CPR and First Aid for the Professional Rescuer **3 sem. hrs.**

- KINE 2225 - Sports Conditioning **2 sem. hrs.**
- KINE 2375 - Nutrition for Human Performance **3 sem. hrs.**
- KINE 3318 - Prevention and Care of Athletic Injuries **3 sem. hrs.**
- KINE 3335 - Legal Issues in Sport **3 sem. hrs.**
- KINE 4340 - Exercise Testing and Prescription **3 sem. hrs.**
- KINE 4693 - Professional Field Experience I **6 sem. hrs.**
- KINE 4694 - Professional Field Experience II **6 sem. hrs.**

Note:

To enroll in the Professional Field Experiences students must have departmental approval as well as an overall and Kinesiology GPA of 2.75.

Exercise Science Special Foundations (25-27 semester hours)*

Students must pass these courses with a grade of "C" or better.

- BUSI 1310 - Introduction to the Business Environment **3 sem. hrs.**
- KINE 2325 - Physiological Aspects of Kinesiology **3 sem. hrs.** OR
- BIOL 2401 - Anatomy and Physiology I **4 sem. hrs.**

- KINE (3 hour upper division kinesiology elective) OR
- BIOL 2402 - Anatomy and Physiology II **4 sem. hrs.**

- FINA 1307 - Personal Finance **3 sem. hrs.**
- KINE 2314 - Sport Management **3 sem. hrs.** OR
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**

- KINE 3330 - Promotion of Sport **3 sem. hrs.**
- KINE 4308 - Facilities Design and Planning **3 sem. hrs.** OR
- KINE 3366 - Managing Leisure Services **3 sem. hrs.**

- MATH 1442 - Statistics for Life **4 sem. hrs.**

Pre-Allied Health Professional Specialization (128-129 semester hours)

Students seeking a career in allied health fields (e.g. Cardiac Rehabilitation, Dentistry, Medicine, Occupational Therapy, and Physical Therapy) should complete the requirements of the Pre-Allied Health Professional Specialization of the kinesiology major. This specialization serves as an excellent preparatory program for students pursuing graduate study in these fields as well as post baccalaureate study in exercise science. Graduates with a BS in Kinesiology with a Pre-Allied Health Professional Specialization will demonstrate knowledge of basic kinesiology theory and principles as they relate to the fields in allied health.

Student Learning Outcomes:

Students will:

- identify procedures for immediate care for injuries, including the use of standard emergency procedures and wound care;
- apply the principles of measurement/evaluation as they relate to injury assessment and rehabilitation;
- apply the principles of biomechanics as it relates to injury assessment and rehabilitation;
- apply the principles of exercise physiology to prescribe safe and effective rehabilitation programs;
- identify preventative techniques, bracing, and/or taping to reduce the frequency or severity of performance injuries.

Degree Requirements

Sem. Hrs.

A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements	26
D.	Special Emphasis Requirements	31-32
E.	Special Foundations	27

Total 126-127 (128-129)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Pre-Allied Health Professional Major Requirements (26* semester hours)

- KINE 2313 - Foundations of Kinesiology **3 sem. hrs.**
- KINE 3337 - Psychological Aspects of Kinesiology **3 sem. hrs.**
- KINE 3338 - Motor Development/Motor Learning **3 sem. hrs.**
- KINE 4311 - Measurement and Evaluation **3 sem. hrs.**
- KINE 4312 - Physiology of Exercise **3 sem. hrs.**
- KINE 4112 - Physiology of Exercise Lab **1 sem. hrs.**
- KINE 4325 - Kinetic Anatomy **3 sem. hrs.**
- KINE 4327 - Biomechanics **3 sem. hrs.**
- KINE 4127 - Biomechanics Lab **1 sem. hrs.**
- KINE 4339 - Special Populations in Kinesiology **3 sem. hrs.**

Note:

*Does not include any science/math-related lab hour in the core.

Pre-Allied Health Professional Special Emphasis Requirements (31-32 semester hours)

- KINE 2215 - First Aid and Safety **2 sem. hrs.** OR
- KINE 2315 - CPR and First Aid for the Professional Rescuer **3 sem. hrs.**

- KINE 2225 - Sports Conditioning **2 sem. hrs.**
- KINE 2375 - Nutrition for Human Performance **3 sem. hrs.**
- KINE 3318 - Prevention and Care of Athletic Injuries **3 sem. hrs.**

- KINE 3320 - Therapeutic Modalities **3 sem. hrs.** OR
- KINE 4322 - Rehabilitation of Athletic Injuries **3 sem. hrs.** OR
- KINE 4328 - Sport and Exercise Pharmacology **3 sem. hrs.**

- KINE 3335 - Legal Issues in Sport **3 sem. hrs.**
- KINE 4340 - Exercise Testing and Prescription **3 sem. hrs.**
- KINE 4693 - Professional Field Experience I **6 sem. hrs.**
- KINE 4694 - Professional Field Experience II **6 sem. hrs.**

Note:

To enroll in the Professional Field Experiences students must have departmental approval as well as an overall and Kinesiology GPA of 2.75.

Pre-Allied Health Professional Special Foundations (minimum of 27 semester hours)

Students completing the Pre-Allied Health Professional Specialization must complete a minimum of 27 semester hours of advisor-approved courses that support the graduate degree the students will pursue. Students must pass these courses with a grade of “C” or better.

Sport Management Specialization (124-125 semester hours)

Students seeking a career in sport management should complete the requirements of the Sport Management Specialization of the kinesiology major. Careers in sport management include positions with professional teams or leagues, college athletic departments, conference offices, and amateur sports associations. Sport management graduates can also serve the sports industry through club and facility management, marketing and event promotion, and sports equipment sales and distribution. This program also prepares students for careers in recreation such as intramural directors, outdoor education teachers, camp leaders, ropes course managers, and other administrative positions in the recreational sports field. Graduates with a BS in Kinesiology with a Sport Management Specialization will be able to demonstrate theoretical and practical knowledge of sport management concepts.

Student Learning Outcomes

Students will:

- demonstrate general sport management principles;
- ethically apply legal, marketing, and finance issues to the sport industry;
- incorporate interdisciplinary knowledge to sport management concepts.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements	38-39

D.	Special Emphasis Requirements	26
E.	Special Foundations	18

Total 124-125 (126-127)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Sport Management Major Requirements (38* semester hours)

- KINE 2313 - Foundations of Kinesiology **3 sem. hrs.**
- KINE 2314 - Sport Management **3 sem. hrs.**
- KINE 2325 - Physiological Aspects of Kinesiology **3 sem. hrs.**
- KINE 2375 - Nutrition for Human Performance **3 sem. hrs.**
- KINE 3335 - Legal Issues in Sport **3 sem. hrs.**
- KINE 3337 - Psychological Aspects of Kinesiology **3 sem. hrs.**
- KINE 3338 - Motor Development/Motor Learning **3 sem. hrs.**
- KINE 4311 - Measurement and Evaluation **3 sem. hrs.**
- KINE 4312 - Physiology of Exercise **3 sem. hrs.**
- KINE 4112 - Physiology of Exercise Lab **1 sem. hrs.**
- KINE 4325 - Kinetic Anatomy **3 sem. hrs.**
- KINE 4327 - Biomechanics **3 sem. hrs.**
- KINE 4127 - Biomechanics Lab **1 sem. hrs.**
- KINE 4339 - Special Populations in Kinesiology **3 sem. hrs.**

Note:

*Does not include any science/math-related lab hour in the core.

Sport Management Special Emphasis (26 semester hours)

- KINE 2215 - First Aid and Safety **2 sem. hrs.** OR
- KINE 2315 - CPR and First Aid for the Professional Rescuer **3 sem. hrs.**

- KINE 2357 - Sport Officiating **3 sem. hrs.** OR
- KINE 3301 - Outdoor Adventure Programs **3 sem. hrs.**

- KINE 3330 - Promotion of Sport **3 sem. hrs.**
- KINE 3366 - Managing Leisure Services **3 sem. hrs.**
- KINE 4308 - Facilities Design and Planning **3 sem. hrs.**
- KINE 4693 - Professional Field Experience I **6 sem. hrs.**
- KINE 4694 - Professional Field Experience II **6 sem. hrs.**

Note:

To enroll in the Professional Field Experiences students must have departmental approval as well as an overall and Kinesiology GPA of 2.75.

Sport Management Special Foundations (18 semester hours)

Students completing the Sport Management Specialization must complete a minimum of 18 semester hours of approved business and/or management-related courses. Students must pass these courses with a grade of “C” or better.

Students may choose to acquire a minor in business or marketing in lieu of the 18 required hours of business-related courses. Students should look in the College of Business section of the catalog for the specific courses needed for either minor.

Bachelor of Science in Athletic Training

Athletic Training, BS

The Bachelor of Science in Athletic Training Degree coursework includes: 1) General Education Requirements, 2) Athletic Training Major Requirements, 3) Special Emphasis Requirements and 4) Special Foundations Requirements. Students majoring in Athletic Training must complete all major, special emphasis, and special foundations requirements with a grade of "C" or better. Transfer credit hours in athletic training courses must adhere to the same grade standard.

Admission to the Athletic Training Program

Students majoring in Athletic Training must be admitted to the Pre-Professional Phase of the Athletic Training Program at Texas A&M University-Corpus Christi prior to enrolling in any clinical experience courses. Application forms for admission to the Athletic Training Program may be obtained from the Athletic Training Program, Island Hall 179 or 351 or electronically at http://athletictraining.tamucc.edu/admission.html. The deadline for submitting applications is July 15 for students seeking admission to the Pre-Professional Phase of the program in the following FALL semester. Requirements for admission to the Pre-Professional Phase of the Athletic Training Program include:

1. Admission to the University.
2. Submission of the application form and three letters of recommendation.
3. Medical clearance and Immunization Review by a physician.
4. Immunization Record.
5. Current TB test results.

Formal acceptance into the Athletic Training Program will be determined at the end of the fall semester based upon the following criteria:

1. The student must complete KINE 1320 KINE 2191 and KINE 2315 with a grade of "B" or better.

2. The student must have minimum cumulative GPA of 2.75.
3. The student must complete a personal interview with a selection committee made up of members of Kinesiology department faculty and athletic training staff.

The program is a competitive program and only a limited number of students can be admitted each year. The students who meet the above criteria will be considered for selection at the end of the PreProfessional semester. The Athletic Training Program Selection Committee will consider all professional and personal qualifications in determining applicants for formal admission to the program. The number of students accepted is determined by the number of faculty and clinical preceptors available for adequate supervision and learning. Individuals denied admission three times are ineligible to re-apply.

Conditional admission will be considered if there is availability regarding student numbers within the AT Program and the selection committee agrees. Those students admitted conditionally will have only one semester to meet the conditions for full admission set forth by the AT Program. Conditionally admitted students who do not meet the conditions set forth by the AT Program, that were not due to circumstances beyond their control will be suspended from the program. Students suspended from the program may appeal the suspension to the Director of the Athletic Training Program. Students suspended from the Program must wait one year before applying for re-admission to the program.

Accelerated Program for Transfer Students

A prospective student with at least 30 hours of transferable credit from another field of study at TAMUCC or another university may be considered for an accelerated program, allowing the student to complete the clinical education in three years rather than four. To qualify for the accelerated program, students must meet the following criteria after completion of their first year (Pre-Professional semester and first semester in program):

1. The student must have completed KINE 1320, KINE 2191, KINE 2315, KINE 3318, KINE 2192, BIOL 2401, and BIOL 2402 with a grade of "B" or better.
2. The student must have completed 24 hours at Texas A&M University-Corpus Christi with a minimum 3.0 GPA.
3. The student must receive a positive recommendation from both the Clinical Education Coordinator and Director of the Athletic Training Program.

Retention in the Athletic Training Program

Students formally accepted to the program must meet the following criteria to remain in the Program:

1. The student must maintain a cumulative GPA of 2.75 or higher.
2. The student must complete each semester with a minimum GPA of 2.50 or higher.
3. The student must complete all major requirement courses with a grade of "B" or better.

If a student fails to meet one of the above criteria, the student will be placed on probation for a period of one semester. A student on probation may be restricted from enrolling in clinical experience courses if the student has not completed the required competencies for the previous clinical experience course. If the student has not corrected the unsatisfactory work by the end of the probationary period, the student may be suspended from the program. Each student will only be allowed a maximum number of two probationary periods to successfully complete the program. Students who have been on probation for two semesters(sequentially or not), and fail to meet the retention criteria listed above, will be suspended from the program.

Students may appeal admissions decisions, accelerated program selections, retention decisions, or disciplinary actions by submitting a formal appeal to the Athletic Training (AT) Program Director. The AT Program Director will refer the matter to the Chair of the Kinesiology Department and a committee of faculty members will hear the student's appeal. Students can further appeal the decision by submitting a formal appeal to the appropriate university body (e.g. College of Education, Student Affairs, Academic Affairs). Students suspended from the Program must wait one academic year before requesting re-admission to the Program.

Program Requirements for Athletic Training Students

1. Students in the program must adhere to all policies in the Athletic Training Student (ATS) Handbook. The handbook can be located in electronic format at http://athletictraining.tamucc.edu/current_students_fac.html.
2. Students must submit to a criminal background check if required by an off-campus clinical site. The student is responsible for any fees involved in obtaining the criminal background check.
3. Liability insurance is required for all students in the program, including those in the Pre-Professional Phase. Students registered for clinical experience courses are automatically enrolled in a liability insurance policy. The fees are included in the materials fee charged for the clinical experience course. A copy of the policy and its coverage amounts can be found on file in the Kinesiology Department (IH 351).
4. Students are responsible for providing their own transportation to off-campus clinical sites.
5. Students will be provided with shirts to be worn as part of the uniform while in the clinical setting. Students will be responsible for providing any other clothing (shoes, khaki pants, dress clothes, etc.) that is necessary for each clinical setting.

The Requirements for Bachelor of Science in Athletic Training Degree are discussed below:

Student Learning Outcomes

Student Learning Outcomes

Graduates of the Texas A&M University-Corpus Christi Athletic Training Program will:

- Understand the role of the athletic training within the health care system.
- Collaborate with other health care professionals and professional practitioners.
- Provide client/patient centered care that advocates for the needs of the client/patient.
- Provide care that complies with the National Athletic Trainers Association (NATA) Code of Ethics, Board of Certification (BOC) Standards of Professional Practice, and laws governing the practice of athletic training.
- Demonstrate cultural competence including cultural difference and attitudes towards health care.
- Demonstrate the ability to work respectfully and effectively with diverse populations and within a diverse work environment.
- Maintain high standards of evidence-guided clinical practice by valuing new knowledge in making informed decisions about client/patient care.
- Participate in activities that promote life-long learning and professional development.
- Demonstrate professional verbal and written communication with others in the professional setting.
- Promote the profession of athletic training through involvement in professional organizations and professional activities.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	54
D. Athletic Training Special Emphasis	12
E. Athletic Training Special Foundations	17
	Total 125 (127)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Core Curriculum Program (42 semester hours)

Students majoring in Athletic Training must complete the General Education requirements, which include the Core Curriculum Program. (See "General Education Requirement" in the "Undergraduate Programs" section of this catalog; see also "University Core Curriculum Program .") Athletic Training students must take BIOL 2401 , CHEM 1411, and PSYC 2301 to satisfy the requirements for the Natural Science and Social Science areas in the core curriculum.

Athletic Training Major Requirements (54* semester hours)

- BIOL 2402 - Anatomy and Physiology II **4 sem. hrs.**
- KINE 1320 - Introduction to Athletic Training **3 sem. hrs.**
- KINE 2191 - Clinical Experience in Athletic Training I **1 sem. hrs.**
- KINE 2192 - Clinical Experience in Athletic Training II **1 sem. hrs.**
- KINE 3291 - Clinical Experience in Athletic Training III **2 sem. hrs.**
- KINE 3292 - Clinical Experience in Athletic Training IV **2 sem. hrs.**
- KINE 4291 - Clinical Experience in Athletic Training V **2 sem. hrs.**
- KINE 4292 - Clinical Experience in Athletic Training VI **2 sem. hrs.**
- KINE 4293 - Clinical Experience in Athletic Training VII **2 sem. hrs.**
- KINE 4294 - Clinical Experience in Athletic Training VIII **2 sem. hrs.**
- KINE 2315 - CPR and First Aid for the Professional Rescuer **3 sem. hrs.**
- KINE 3318 - Prevention and Care of Athletic Injuries **3 sem. hrs.**
- KINE 3320 - Therapeutic Modalities **3 sem. hrs.**
- KINE 3322 - Evaluation of Upper Extremity Injuries **3 sem. hrs.**
- KINE 3324 - Evaluation of Lower Extremity Injuries **3 sem. hrs.**
- KINE 4322 - Rehabilitation of Athletic Injuries **3 sem. hrs.**
- KINE 4324 - Administration of Athletic Training **3 sem. hrs.**
- KINE 4326 - Medical Terminology and Conditions in Sport and Exercise **3 sem. hrs.**
- KINE 4328 - Sport and Exercise Pharmacology **3 sem. hrs.**
- HLSC 3310 - Epidemiology **3 sem. hrs.**
- HLSC 3330 - Financial Management in Health Care **3 sem. hrs.**

Note:

Includes 2 additional hours for BIOL 2401 and CHEM 1411 in the core.

Athletic Training Special Emphasis (12 semester hours)

- KINE 2225 - Sports Conditioning **2 sem. hrs.**
- KINE 2375 - Nutrition for Human Performance **3 sem. hrs.**
- KINE 4340 - Exercise Testing and Prescription **3 sem. hrs.**
- BIMS 3401 - Pathophysiology **4 sem. hrs.**

Athletic Training Special Foundations (17 semester hours)

- KINE 3337 - Psychological Aspects of Kinesiology **3 sem. hrs.**
- KINE 4311 - Measurement and Evaluation **3 sem. hrs.**
- KINE 4312 - Physiology of Exercise **3 sem. hrs.**
- KINE 4112 - Physiology of Exercise Lab **1 sem. hrs.**
- KINE 4325 - Kinetic Anatomy **3 sem. hrs.**
- KINE 4327 - Biomechanics **3 sem. hrs.**
- KINE 4127 - Biomechanics Lab **1 sem. hrs.**

National Certification for Athletic Trainers

Students in their last semester of completing their degree are permitted to apply to take the certification exam prior to graduation provided all academic and clinical requirements of the CAATE Accredited Program have been satisfied or will be satisfied during their last semester, and students have successfully complete the program exit exam. Students can apply to the Board of Certification (BOC) electronically at http://www.bocatc.org.

Texas Licensure for Athletic Trainers

Students may apply for the licensure examination prior to their graduation if they are within two semesters of completion of their degree. Eligible students can apply to the Texas Advisory Board of Athletic Trainers electronically at http://www.dshs.state.tx.us/at/.

Minor

Kinesiology Minor

The department allows minors in the 4 specializations (EC-12 Physical Education Certification, Exercise Science, Sport Management and Sport Medicine).

EC-12 PE Certification Minor (18 semester hours)

The minor is designed to serve education students that have or are pursuing a major in another teaching discipline and aspire to achieve an additional certification in Physical Education after issuance of initial teaching certificate. However, non-teaching majors who are interested in supplementing their major area of study with an added knowledge of physical education may also pursue this minor. A minimum of twelve hours must be taken at Texas A&M University-Corpus Christi. For additional information, contact an academic advisor in the College of Education.

- KINE 2317 - Re-inventing Games **3 sem. hrs.**
- KINE 2375 - Nutrition for Human Performance **3 sem. hrs.**
- KINE 3338 - Motor Development/Motor Learning **3 sem. hrs.**
- KINE 3339 - Elementary Physical Education Programs **3 sem. hrs.**
- KINE 3341 - Secondary Physical Education Programs **3 sem. hrs.**
- KINE 4339 - Special Populations in Kinesiology **3 sem. hrs.**

Exercise Science Minor (20 semester hours)

The minor is designed to serve students who are interested in supplementing their major area of study with an added knowledge of exercise science. A minimum of twelve hours must be taken at Texas A&M University-Corpus Christi. For additional information, contact an academic advisor in the College of Education.

- KINE 2375 - Nutrition for Human Performance **3 sem. hrs.**
- KINE 3337 - Psychological Aspects of Kinesiology **3 sem. hrs.**
- KINE 4325 - Kinetic Anatomy **3 sem. hrs.**
- KINE 4327 - Biomechanics **3 sem. hrs.**
- KINE 4127 - Biomechanics Lab **1 sem. hrs.**
- KINE 4311 - Measurement and Evaluation **3 sem. hrs.**
- KINE 4312 - Physiology of Exercise **3 sem. hrs.**
- KINE 4112 - Physiology of Exercise Lab **1 sem. hrs.**

Sport Management Minor (18 semester hours)

The minor is designed to serve students who are interested in supplementing their major area of study with an added knowledge of sport management. A minimum of twelve hours must be taken at Texas A&M University-Corpus Christi. For additional information, contact an academic advisor in the College of Education.

- KINE 2314 - Sport Management **3 sem. hrs.**
- KINE 2357 - Sport Officiating **3 sem. hrs.**
  OR
- KINE 3301 - Outdoor Adventure Programs **3 sem. hrs.**
- KINE 3330 - Promotion of Sport **3 sem. hrs.**
- KINE 3335 - Legal Issues in Sport **3 sem. hrs.**
- KINE 3366 - Managing Leisure Services **3 sem. hrs.**
- KINE 4308 - Facilities Design and Planning **3 sem. hrs.**

Sport Medicine Minor (18 semester hours)

This minor is designed to serve students who are interested in supplementing their major area of study with an added knowledge of sport medicine. This minor would also be effective in providing a solid foundation of undergraduate sport medicine courses for students intending to pursue a master's degree in Athletic Training or other sport medicine graduate degrees. A minimum of 12 hours must be taken at Texas A&M University-Corpus Christi. For additional information, contact an academic advisor in the College of Education.

- KINE 3318 - Prevention and Care of Athletic Injuries **3 sem. hrs.**
- KINE 3320 - Therapeutic Modalities **3 sem. hrs.**
  OR
- KINE 4322 - Rehabilitation of Athletic Injuries **3 sem. hrs.**
- KINE 3322 - Evaluation of Upper Extremity Injuries **3 sem. hrs.**
- KINE 3324 - Evaluation of Lower Extremity Injuries **3 sem. hrs.**
- KINE 4324 - Administration of Athletic Training **3 sem. hrs.**
- KINE 4326 - Medical Terminology and Conditions in Sport and Exercise **3 sem. hrs.**
  OR
- KINE 4328 - Sport and Exercise Pharmacology **3 sem. hrs.**

Military Science Minor

Requirements (19 hours)

- MSCI 3303 - Adaptive Team Leadership **3 sem. hrs.**
- MSCI 3103 - Adaptive Team Leadership Lab **1 sem. hrs.**
- MSCI 3304 - Applied Team Leadership **3 sem. hrs.**
- MSCI 3104 - Applied Team Leadership Lab **1 sem. hrs.**
- MSCI 4303 - Adaptive Leadership **3 sem. hrs.**
- MSCI 4103 - Adaptive Leadership Lab **1 sem. hrs.**
- MSCI 4304 - Leadership in a Complex World **3 sem. hrs.**
- MSCI 4104 - Leadership in a Complex World Lab **1 sem. hrs.**
- HIST 4335 - The Military and United States History **3 sem. hrs.**

Other Degrees

Military Science

A four-year ROTC program includes instruction for freshman and sophomore students as well as advanced students. As stated in the introduction of the College of Education Handbook, a minor in Military Science is offered, giving the student academic credit for the leadership, critical thinking and military skills training received. At least 22 credit hours are required to receive credit for a minor.

Basic Military Science (16 semester hours)

- MSCI 1370 - Leadership and Personal Development **3 sem. hrs.**
- MSCI 1170 - Leadership and Personal Development Lab **1 sem. hrs.**
- MSCI 1371 - Introduction to Tactical Leadership **3 sem. hrs.**
- MSCI 1171 - Introduction to Tactical Leadership Lab **1 sem. hrs.**
- MSCI 2370 - Innovative Team Leadership **3 sem. hrs.**
- MSCI 2170 - Innovative Team Leadership Lab **1 sem. hrs.**
- MSCI 2371 - Foundations of Tactical Leadership **3 sem. hrs.**
- MSCI 2171 - Foundations of Tactical Leadership Lab **1 sem. hrs.**

The Advanced Military Science Program

The Advanced Military Science Program at Texas A&M University-Corpus Christi allows qualified students to earn commissions as Second Lieutenants in the active Army, the Army Reserve, or the National Guard. Nursing students can qualify for commissions in officer grades as high as captain, depending on graduate work and professional nursing experience.

Entry into the program is restricted to students who have demonstrated scholastic ability, excellent character, and leadership potential. Qualification is based on successful accomplishment of any one of the following:

1. Honorable military service.
2. Completion of the Leadership Training Camp (a 4 week summer compression program).
3. Three or more years of JROTC in any branch with the appropriate recommendations.
4. Completion of the first two years of the ROTC four-year program at another institution.

The two-year curriculum is centered on developing leadership and management skills. Training exercises aimed at increasing the students' confidence are practiced throughout the program.

Graduates of this program are appointed in entry management positions in the Army depending upon their preferences, academic majors, and demonstrated leadership.

Advanced Military Science (19 semester hours)

- MSCI 3303 - Adaptive Team Leadership **3 sem. hrs.**
- MSCI 3103 - Adaptive Team Leadership Lab **1 sem. hrs.**
- MSCI 3304 - Applied Team Leadership **3 sem. hrs.**
- MSCI 3104 - Applied Team Leadership Lab **1 sem. hrs.**
- MSCI 4303 - Adaptive Leadership **3 sem. hrs.**
- MSCI 4103 - Adaptive Leadership Lab **1 sem. hrs.**
- MSCI 4304 - Leadership in a Complex World **3 sem. hrs.**
- MSCI 4104 - Leadership in a Complex World Lab **1 sem. hrs.**
- HIST 4335 - The Military and United States History **3 sem. hrs.**

Teacher Education

Bachelor of Science in Interdisciplinary Studies

Interdisciplinary Studies, BSIS

A minimum of 120 semester hours is required for the BSIS degree. Degree requirements include University Core Curriculum, the interdisciplinary major, and the professional development sequence. Certification in EC- 6 Generalist, EC- 6 Bilingual Generalist, 4-8 Mathematics, or EC-12 Special Education is available with the Bachelor of Science in Interdisciplinary Studies Degree.

Degree Requirements

	Sem. Hrs
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Course exemptions based upon advanced standing	(6)
D. Major Requirements & Supporting Fields	55-64
E. Professional Development Requirement	24
	Total 123-133 (126-136)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

A. Core Curriculum Program Requirements

Students must complete the University's General Education requirements, which include the core curriculum. (See "General Education Requirement " in the "Undergraduate Programs " section of this catalog; see also "University Core Curriculum Programs.") Students seeking the 4-8 Math Interdisciplinary Degree must take BIOL 1406 and CHEM 1411. Only 3 hours of BIOL 1406 will apply to the Core Curriculum Program. The one hour laboratory component will be counted in the major requirements.

B. Interdisciplinary Major Requirements (55-64) semester hours)

The **Interdisciplinary major** consists of an academic or delivery system specialization AND a **combination of supporting fields.**

1. Interdisciplinary **major concentrations** may be selected from one of the following areas:
   EC-6 Bilingual Generalist

EC- 6 Generalist with Reading Delivery
4-8 Mathematics
EC-12 Special Education

2. The **combination of supporting fields** consists of a combination of three of the following five fields: English, Mathematics, Reading, Science, and Social Studies. A different combination of supporting fields is designated for each concentration. A minimum of 24 of the 51-54 semester hours must be in upper-division courses.

EC-6 Bilingual Generalist

Student Learning Outcomes

Students will:

- demonstrate a depth of knowledge of bilingual education;
- demonstrate a depth of speaking ability in Spanish;
- effectively apply the competencies of a bilingual education teacher in their student teaching experience.

Major Requirements

All courses in BIEM and READ must be completed with a grade of "C" or better.

- BIEM 4344 - Educational Psychology and the Bilingual Child **3 sem. hrs.**
- BIEM 4345 - Language Acquisition and Development **3 sem. hrs.**
- BIEM 4349 - Linguistics for Bilingual Teachers **3 sem. hrs.**
- BIEM 4355 - Language Arts Studies in the Bilingual Curriculum **3 sem. hrs.**
- BIEM 4356 - Content Area Studies in the Bilingual Curriculum **3 sem. hrs.**
- BIEM 4357 - Methods of Teaching English as a Second Language **3 sem. hrs.**
- BIEM 4360 - Foundations in Bilingualism **3 sem. hrs.**
- READ 3320 - Principles and Practices of Reading Instruction **3 sem. hrs.**
- READ 3351 - Diagnosis and Correction of Reading Problems **3 sem. hrs.**
- SMTE 1350 - Fundamentals of Mathematics I **3 sem. hrs.**
- SMTE 1351 - Fundamentals of Mathematics II **3 sem. hrs.**
- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.**
- SMTE 3316 - Foundational Approaches to the Life Sciences **3 sem. hrs.**
- SMTE 3352 - Fundamentals of Mathematics III **3 sem. hrs.**

Additional Requirements for Certification

- ELEM 3324 - Child Development and Appropriate Practices **3 sem. hrs.**
- SPAN 2312 - Spanish IV **3 sem. hrs.**
- EDUC 2307 - Schooling in a Democracy **3 sem. hrs.**
- SPED 4310 - Students with Exceptionalities **3 sem. hrs.**
- IDET 3100 - Educational Technology for Preservice Teachers in Schools **1 sem. hrs.**

EC-6 Generalist with Reading Delivery

Student Learning Outcomes

Students will:

- provide well-designed instruction and assessment for students from a variety of backgrounds;
- develop classroom climates conducive to learning;
- apply in-depth knowledge of processes and practices associated with students' reading and literacy development;
- fulfill professional roles and responsibilities.

Major Requirements

All courses in ELEM and READ must be completed with a grade of "C" or better.

- READ 3310 - Principles and Practices of Early Reading Instruction **3 sem. hrs.**
- READ 3320 - Principles and Practices of Reading Instruction **3 sem. hrs.**
- READ 3351 - Diagnosis and Correction of Reading Problems **3 sem. hrs.**
- READ 3352 - Content Area Reading for Elementary Students **3 sem. hrs.**
- READ 4380 - Children's and Adolescents' Literature **3 sem. hrs.**
- READ 4394 - Field Experiences in Reading **3 sem. hrs.**
- SMTE 1350 - Fundamentals of Mathematics I **3 sem. hrs.**
- SMTE 1351 - Fundamentals of Mathematics II **3 sem. hrs.**
- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.**
- SMTE 3316 - Foundational Approaches to the Life Sciences **3 sem. hrs.**
- SMTE 3352 - Fundamentals of Mathematics III **3 sem. hrs.**
- ENGL 3340 - Grammar **3 sem. hrs.**
- ENGL 3360 - Current Approaches to Composition and Literature **3 sem. hrs.**

Additional Requirements for Certification

- EDUC 3311 - School and Society **3 sem. hrs.**
- IDET 3100 - Educational Technology for Preservice Teachers in Schools **1 sem. hrs.**
- SPED 4345 - Introduction to Students with Emotional and Behavior Disorders **3 sem. hrs.**
- ELEM 3324 - Child Development and Appropriate Practices **3 sem. hrs.**
- ELEM 4345 - EC-6 Assessment and Evaluation **3 sem. hrs.**
- ELEM 4350 - Social Studies **3 sem. hrs.**

4-8 Mathematics

Student Learning Outcomes

Students will:

- design instruction and assessment, with special emphasis on mathematics, to promote student learning among diverse student populations;
- provide examples of a positive classroom climate among diverse student populations;
- determine effective, responsive instruction and assessment, with special emphasis on math;
- articulate and fulfill professional roles and responsibilities.

Major Requirements

All courses in MATH and READ must be completed with a grade of "C" or better.

- MATH 1316 - Trigonometry **3 sem. hrs.** OR
- MATH 1442 - Statistics for Life **4 sem. hrs.**

- MATH 2312 - Precalculus **3 sem. hrs.**
- MATH 2305 - Discrete Mathematics I **3 sem. hrs.**
- MATH 2413 - Calculus I **4 sem. hrs.**
- MATH 3311 - Linear Algebra **3 sem. hrs.**
- MATH 3312 - College Geometry **3 sem. hrs.**
- SMTE 1350 - Fundamentals of Mathematics I **3 sem. hrs.**
- SMTE 1351 - Fundamentals of Mathematics II **3 sem. hrs.**
- SMTE 3352 - Fundamentals of Mathematics III **3 sem. hrs.**
- SMTE 4382 - Basic Mathematics From An Advanced Viewpoint **3 sem. hrs.**
- GEOG 1300 - World Geography **3 sem. hrs.**
- BIEM 4357 - Methods of Teaching English as a Second Language **3 sem. hrs.**
- READ 3351 - Diagnosis and Correction of Reading Problems **3 sem. hrs.**
- READ 3352 - Content Area Reading for Elementary Students **3 sem. hrs.**
- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.**
- SMTE 3316 - Foundational Approaches to the Life Sciences **3 sem. hrs.**
- READ 3320 - Principles and Practices of Reading Instruction **3 sem. hrs.**

Additional Requirements

- EDUC 2307 - Schooling in a Democracy **3 sem. hrs.**
- SPED 4345 - Introduction to Students with Emotional and Behavior Disorders **3 sem. hrs.**
- ENGL 3340 - Grammar **3 sem. hrs.** OR
- ENGL 3360 - Current Approaches to Composition and Literature **3 sem. hrs.**

EC-12 Special Education

Student Learning Outcomes

Students will:

- demonstrate a depth of knowledge of understanding individuals with disabilities and evaluating their needs;
- demonstrate a depth of knowledge of fostering learning and development for individuals with disabilities;
- demonstrate a depth of knowledge of foundations of special education and professional roles and responsibilities of the special education teacher;
- effectively apply the competencies of a special education teacher in their student teaching experience.

Major Requirements

All courses in SPED and READ must be completed with a grade of "C" or better.

- SPED 4310 - Students with Exceptionalities **3 sem. hrs.**
- SPED 4325 - Teaching Strategies for Students with Exceptionalities **3 sem. hrs.**
- SPED 4330 - Individualized Education Programs for Students with Exceptionalities **3 sem. hrs.**
- SPED 4335 - Applied Learning theory **3 sem. hrs.**
- SPED 4340 - Individuals with Severe Disabilities **3 sem. hrs.**
- SPED 4345 - Introduction to Students with Emotional and Behavior Disorders **3 sem. hrs.**
- SPED 4397 - Special Education Field Experience **3 sem. hrs.**
- READ 3320 - Principles and Practices of Reading Instruction **3 sem. hrs.**
- READ 3351 - Diagnosis and Correction of Reading Problems **3 sem. hrs.**

- READ 3352 - Content Area Reading for Elementary Students **3 sem. hrs.** OR
- READ 3353 - Content Area Reading for Secondary Students **3 sem. hrs.**

- SMTE 1350 - Fundamentals of Mathematics I **3 sem. hrs.**
- SMTE 1351 - Fundamentals of Mathematics II **3 sem. hrs.**
- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.**
- SMTE 3316 - Foundational Approaches to the Life Sciences **3 sem. hrs.**
- SMTE 3352 - Fundamentals of Mathematics III **3 sem. hrs.**

Additional Requirements for Certification

- EDUC 2307 - Schooling in a Democracy **3 sem. hrs.**
- READ 4380 - Children's and Adolescents' Literature **3 sem. hrs.**
- IDET 3100 - Educational Technology for Preservice Teachers in Schools **1 sem. hrs.**
- IDET 3310 - Technology Applications for Teachers **3 sem. hrs.**

C. Professional Development Requirements (24 semester hours)

EC-6 Generalist with a Reading Delivery System Specialization and EC-6 Bilingual Generalist

- BIEM 4357 - Methods of Teaching English as a Second Language **3 sem. hrs.**
- EDUC 4314 - Classroom Management: Grades EC-6 **3 sem. hrs.**
- EDUC 4324 - Instructional Design for Special Populations: Grades EC-6 **3 sem. hrs.**
- EDUC 4608 - Planning, Teaching, Assessment and Technology for Grades EC-6 Teachers **6 sem. hrs.**
- EDUC 4994 - Student Teaching: EC-grade 6 **9 sem. hrs.**

4-8 Mathematics

- EDUC 3311 - School and Society **3 sem. hrs.**
- EDUC 4313 - Classroom Management: Grades 4-8 **3 sem. hrs.**
- EDUC 4323 - Instructional Design for Special Populations: Grades 4-8 **3 sem. hrs.**
- EDUC 4607 - Planning, Teaching, Assessment and Technology for Grades 4-8 Teachers **6 sem. hrs.**
- EDUC 4992 - Student Teaching: Grades 4-8 **9 sem. hrs.**

EC-12 Special Education

- EDUC 3311 - School and Society **3 sem. hrs.**
- EDUC 4311 - Classroom Management: All Level **3 sem. hrs.**
- EDUC 4321 - Instructional Design for Special Populations: All Level **3 sem. hrs.**
- EDUC 4393 - Student Teaching: Grades 7-12 **3 sem. hrs.**
- EDUC 4605 - Planning, Teaching, Assessment and Technology for All Level Teachers **6 sem. hrs.**
- EDUC 4694 - Student Teaching: EC-Grade 6 **6 sem. hrs.**

D. Non-Certification Track to the EC-6 BSIS Degree with a Reading Specialization

The degree will be a BSIS Degree with a specialization in EC-6 Reading-Non-Certification. Students will follow the same degree plan as the EC-6 Reading Specialization with Certification (already approved) except for the last semester, they will choose from a list of courses the 9 hrs. that will make up for student teaching.

Course Requirements

Student will have to choose to take 9 hours from the following classes in order to graduate with a Bachelor's Degree with no Teacher Certification.

- BIEM 4344 - Educational Psychology and the Bilingual Child **3 sem. hrs.**
- BIEM 4345 - Language Acquisition and Development **3 sem. hrs.**

- BIEM 4355 - Language Arts Studies in the Bilingual Curriculum **3 sem. hrs.**
- BIEM 4356 - Content Area Studies in the Bilingual Curriculum **3 sem. hrs.**
- ECED 4310 - Socialization of the Young Child **3 sem. hrs.**
- ECED 4320 - The Young Child, Family and Community Resources **3 sem. hrs.**
- ECED 4330 - Health, Nutrition and Locomotor Concepts for the Young Child **3 sem. hrs.**
- EDUC 4324 - Instructional Design for Special Populations: Grades EC-6 **3 sem. hrs.**
- KINE 2317 - Re-inventing Games **3 sem. hrs.**
- KINE 3214 - Physical Education Activities **2 sem. hrs.**
- KINE 3338 - Motor Development/Motor Learning **3 sem. hrs.**
- SPED 4320 - Community-based Instruction for the Students with Exceptionalities **3 sem. hrs.**
- SPED 4325 - Teaching Strategies for Students with Exceptionalities **3 sem. hrs.**

Teacher Certificate

Elementary Teacher Certification

Students who complete the requirements for the Bachelor of Science in Interdisciplinary Studies degree and who successfully pass the appropriate TExES tests will fulfill simultaneously all requirements for either EC- 6 Generalist with a Reading Specialization, EC- 6 Bilingual Generalist, 4-8 Mathematics or EC-12 Special Education teacher certification.

Secondary/EC-12 Teacher Certification

Students seeking certification to teach in the secondary schools of Texas, or at all levels in the fields of art, music, physical education, Spanish, and theatre must: (a) major in an approved teaching field and complete all major study and related requirements for a baccalaureate degree in that field, and (b) comply with teacher certification requirements. Requirements to establish a major field of study are located within the individual college sections of the catalog.

In addition to these requirements, students seeking a certificate to teach in the secondary schools of Texas must complete:

1. The baccalaureate degree with an academic major.
2. The University's General Education requirements, including the Core Curriculum Program. (See “General Education Requirements” in the “Undergraduate Programs” section of this catalog; see also “University Core Curriculum Programs .”)
3. Three semester hours of reading; READ 3353 - Content Area Reading for Secondary Students.
4. Either secondary or EC-12 course work (see below)
5. A passing score on the appropriate TExES tests

Either secondary or EC-12 course work as listed below:

A. Secondary

Twelve semester hours of professional education:

- EDUC 3311 - School and Society **3 sem. hrs.**
- EDUC 4606 - Planning, Teaching, Assessment and Technology for Grades 7-12 Teachers **6 sem. hrs.**
- EDUC 4322 - Instructional Design for Special Populations: Grades 7-12 **3 sem. hrs.**

Twelve semester hours of student teaching:

- EDUC 4312 - Classroom Management: Grades 7-12 **3 sem. hrs.**
- EDUC 4993 - Student Teaching: Grades 7-12 **9 sem. hrs.**

B. EC-12

Twelve semester hours of professional education:

- EDUC 3311 - School and Society **3 sem. hrs.**
- EDUC 4605 - Planning, Teaching, Assessment and Technology for All Level Teachers **6 sem. hrs.**
- EDUC 4321 - Instructional Design for Special Populations: All Level **3 sem. hrs.**

Twelve semester hours of student teaching:

- EDUC 4392 - Student Teaching: EC-Grade 6 **3 sem. hrs.** and
- EDUC 4693 - Student Teaching: Grades 7-12 **6 sem. hrs.**
  OR
- EDUC 4393 - Student Teaching: Grades 7-12 **3 sem. hrs.** and
- EDUC 4692 - Student Teaching: EC-Grade 6 **6 sem. hrs.**

- EDUC 4311 - Classroom Management: All Level **3 sem. hrs.**

education

College of Liberal Arts

College of Liberal Arts

Degree Programs

- Applied Science, BAS
- Criminal Justice, BS
- Economics, BA
- English, BA
- History, BA
- Philosophy, BA
- Political Science, BA
- Psychology, BA
- Sociology, BA
- Spanish, BA

School of Arts, Media & Communication

- Art, BA
- Art, BFA
- Communication, BA
- Graphic Design, BA
- Music, BA and BM
- Music Industry, BA
- Theatre, BA

Minors

- Creative Writing Minor
- Criminal Justice Minor
- English Minor
- European Union Studies Minor
- History Minor
- Latin American Studies Minor
- Mexican American Studies Minor
- Philosophy Minor
- Political Science Minor
- Pre-Law Minor
- Psychology Minor
- Religious Studies Minor
- Social Work Minor
- Sociology Minor
- Spanish Minor
- Technical and Professional Writing Minor
- Women and Gender Studies Minor

School of Arts, Media & Communication

- Art History Minor
- Communication Minor
- Digital Journalism Minor
- Music Minor
- Music Industry Minor
- Public Relations Minor
- Studio Art Minor
- Theatre Minor

Teacher Certifications

- Major in English, BA with Secondary Teacher Certification in English Language Arts (Grades 7-12)
- Major in English, BA with Teacher Certification in English Language Arts (Grades 4-8)
- History Teacher Certifications
- Spanish Teaching Certification

School of Arts, Media & Communication

- Art, BFA with Teacher Certification
- Music, BM with EC-12 Teacher Certification
- Speech Communication Teacher Certification
- Theatre Arts Teacher Certification

Certificates

- TESOL Certificate

School of Arts, Media & Communication

- Dance Certificate
- New Media Arts Certificate

The College of Liberal Arts offers undergraduate and graduate study in the humanities, the social sciences, and the visual and performing arts. The College strives to prepare students for productive lives in a diverse multicultural world by developing intellectual and creative, communication, and critical thinking skills. It provides majors and minors in specialized subjects in the arts, humanities, and social sciences. Teaching provides advanced knowledge and skills in a setting that emphasizes interaction among students and faculty. The College seeks to develop habits of learning and a commitment to lifelong inquiry and intellectual growth.

College of Liberal Arts:

- Our college values learning that results from purposeful relationships within vibrant and dynamic communities.
- Our college values learning that affects the whole individual through all aspects of our humanity (from the emotive to the rational).
- Our college values learning that produces responsible citizens who engage in the communities around them.
- Our college values learning that engages in research and produces scholarship which extends knowledge and, through this, our regional, national, and global reputations.

School of Arts, Media, and Communication (SAMC):

The mission of the School of Arts, Media & Communication is to develop and promote collaboration, innovation, and creation among students and faculty in visual arts, music, theatre, dance, media, and communcication. SAMC students engage in experiential learning, develop leadership, teamwork, and organizational skills, and apply 21st century technology in service of expressing and understanding human experience. SAMC offers cultural enrichment and collaborative opportunities to all university students and members of the South Texas community. To support this mission, the School of Arts, Media & Communication subscribes to the highest academic, artistic, and ethical standards.

Pre-Law

Pre-law students should consult with a pre-law advisor about the proper selection of a major and of elective courses. Students may choose to minor in pre-law, but it is not a requirement to obtain pre-law advising. Advising includes providing information about law schools, admission requirements, and the Law School Admissions Test (LSAT).

Specialized Accreditation and Approval

The Texas A&M University-Corpus Christi music program is an accredited institutional member of the National Association of Schools of Music.

Baccalaureate Degree Requirements

Total Hours

A minimum of 120 semester hours of credit is required for the baccalaureate degree. Some curricula or combinations of fields require more. No remedial coursework may apply toward the degree.

Upper-Division Hours

A minimum of 45 semester hours of upper-division credit (junior- and senior-level course hours) is required for the baccalaureate degree.

Major-Study Requirements

A student must attain a minimum of 30 semester hours in the major field of study, not including any coursework taken as part of the Core Curriculum Program. At least 18 of these 30 hours must be upper-division (numbered 3000 or above) courses. Some curricula or combinations of fields require more. Specific course and major-study hour requirements for each discipline are given in the discipline course listing section of this catalog. Please consult that section for specific requirements that must be met for each disciplinary major.

Minor-Study Requirements

To attain a minor in the College of Liberal Arts, a student must complete the program designed for that minor. Each minor consists of a minimum of 18 semester hours, at least 12 semester hours of which must be at the upper-division level. Some specific fields may require more. Only 6 semester hours that count towards a major may be applied to a minor. At least 9 semester hours in the minor must be taken in residence at A&M-Corpus Christi. The student must have an overall GPA of 2.0 in the minor field. Specific course and major-study hour requirements for each discipline are given in the discipline course listing section of this catalog. Please consult that section for specific requirements that must be met for each disciplinary minor. Requirements for interdisciplinary minors are listed in this section of the catalog.

Course Requirements

Students are expected to meet all course requirements indicated in the course syllabus.

Residence Requirement

The term "residence" is here defined as "coursework completed at the degree granting institution." To be granted a baccalaureate degree from A&M-Corpus Christi, a student must successfully complete at least 36 semester hours of upper-division coursework from this university. A minimum of 12 hours of these 36 must be in the major. Hours earned by credit by examination may not be used to fulfill the residence requirement. Hours earned through credit by examination at another institution will likewise not affect the residence requirement calculation.

Grade-Point Average

A minimum grade-point average of 2.0 ("C") on a 4-point scale in all work taken at this University is required for graduation. Additionally, a minimum grade-point average of 2.0 ("C") is required in all courses taken in the student's declared major field of study, and in all courses taken in any declared minor field of study for conferral of degree. Individual disciplinary fields, however, may set higher standards than the College minimum for their majors and minors.

Activity Courses

A maximum of 4 semester hours of Kinesiology activity coursework may be included as elective credit in the BA, BM, BFA and BS degree programs.

General Education Requirement

Students must meet the University's General Education requirements, which include the 42 hour core curriculum (see sections entitled "Undergraduate Programs" and "University Core Curriculum Programs") and First-Year Seminars.

College Language Requirement

All students majoring in degree programs offered by this college, other than the BAS, the BFA in Art, and the BM in Music, are required to take 6 college-level hours of a second language or the equivalent. Language means a language in the traditional sense; i.e., a language with a culture, such as Spanish or French. American Sign Language is accepted. Language does not include artificial or computer languages.

One may demonstrate proficiency in one of two ways:

1. earning a CLEP, AP, or ACTFL test score equivalent to one year of language study at A&M-Corpus Christi;
2. successfully completing two semesters of a single foreign language at the University.

If students decide to meet this requirement by taking two semesters at this university, an assessment test must be taken prior to registering in order to be placed in the appropriate language course. Information about the assessment test can be obtained from the College of Liberal Arts or by visiting its web site. Any two of the following courses will meet this requirement: CHIN 1311, CHIN 1312, FREN 1311, FREN 1312, FREN 2311, FREN 2312, GERM 1311, GERM 1312, GERM 2311, GERM 2312, SPAN 1311, SPAN 1312, SPAN 2311, SPAN 2312, SPAN 2313, SPAN 3302, SPAN 3303, SPAN 3311, SPAN 3312, SPAN 4303, SPAN 4320.

Foreign students who have successfully taken the Test of English as a Foreign Language (TOEFL) may elect to choose English as their second language. English is considered to be the first language for all other students.

Degree Plan

The degree plan is the formal statement of requirements that must be completed before a degree will be granted. When the student is prepared to declare a major program of study within a particular discipline, he or she should prepare a formal degree plan. It is recommended that the student have decided on a major program of study and prepare a degree plan no later than the second semester of the sophomore year. If the student is transferring into the University at a point after the second semester of the sophomore year, it is recommended that a degree plan be prepared during the student's first semester of residence.

Degree plans are prepared in the CLA Academic Advising Center. The University uses an online Degree Audit system. Any amendment must be approved by the Department Chair and the Office of the Dean. All courses and requirements specified in the final degree plan audit must be completed before a degree will be granted.

Interdisciplinary Minors

In order to fulfill the general objectives of Liberal Arts, the College offers a number of interdisciplinary minors. Minors require a minimum of 18 semester hours beyond the Core, a minimum of 12 semester hours at the upper-division level, and a minimum of 9 semester hours in residence. See alphabetized program listing for descriptions of the following interdisciplinary minors:

European Union Studies

Religious Studies

Journalism	Social Work
Latin American Studies	Technical and Professional Writing
Mexican American Studies	Women and Gender Studies
Public Relations	

For a description of the Minor in Geography, please see the College of Science and Engineering section of this catalog.

Teacher Certification Programs

Students seeking certification in secondary fields or in all levels in art and music must major in an approved teaching field and complete all major study and related requirements for a baccalaureate degree in that field. Students must also meet teacher certification requirements as stipulated by the College of Education. Students are urged to consult the Certification Office of the College of Education for complete and current information about teacher certification requirements.

Major study programs in the College of Liberal Arts offering teacher certification are:

Art	Art	Grades EC-12
Communication	Speech	Grades 7-12
English	English Language Arts/Reading	Grades 7-12
	English Language Arts/Reading	Grades 4-8
History	History	Grades 7-12
	Social Studies	Grades 7-12
	Social Studies	Grades 4-8
Music	Music	Grades EC-12
Spanish	Spanish	Grades EC-12
Theatre	Theatre Arts	Grades EC-12

Major study and course requirements for teacher certification are detailed in the discipline course listing sections of this catalog. For more information regarding teacher certification, please consult the College of Education section of this catalog.

In addition to the academic specializations discussed above, teacher certification programs require the following in general education and professional development:

Core Curriculum Program	42 hrs.
First-Year Seminar (if required)	2 hrs.
Professional Development Courses	27-30 hrs.

Please see the Certification Office in the College of Education for Professional Development courses needed for certifications.

Grade Point Average

A minimum grade point average of 2.5 in all academic work attempted and no grade below "C" in education courses within the professional education block of courses is required. (See College of Education, "Admission to Teacher Education" and "Admission to Student Teaching" for other requirements.) Specific disciplines may require a higher GPA in the field of study than a 2.5. Please refer to the specific certification discipline for GPA requirement in the subject of field.

Certification Examination

Upon satisfactory completion of all subject field and professional development courses, a student may register for the subject field certification examination, called TExES (Texas Examinations of Educator Standards). A student wishing to take the TExES prior to program completion must satisfy the following:

1. Make pre-specified acceptable scores on TExES practice tests, or departmental equivalent, and participate in practice test review and analysis session.
2. Provide official permit with signature of Program Coordinator or designated person for each teaching field on the student's certification plan.

Alteration of a Certification Plan

Any amendment to a degree plan originally filed must be approved by the student's academic advisor, the Department Chair, and the Certification Officer of the College of Education for the degree to be granted.

Special Courses

Cross-Listed Courses

Some courses may be cross-listed by two or more disciplines. Such courses may be counted as part of the required hours for a particular major by registration for the appropriate course prefix. Cross-listed courses may not be repeated under another prefix for additional credit.

Topics Courses (1-3 sem. hrs.)

Undergraduate topics courses are offered in most areas of study in the College under the 4390 number. The subject of study varies and is announced in the Semester Schedule. These courses may be repeated for credit when topics vary.

Individual Study Courses

DIRECTED INDIVIDUAL STUDY (DIS) 4396 1-3 sem. hrs.

Directed Individual Study is a carefully planned special study on an academic topic not offered as part of the regular undergraduate curriculum. DIS is carried out as a tutorial under the direction of, and evaluated by, a regular member of the faculty of the College of Liberal Arts. Enrollment is restricted to advanced students who have demonstrated both academic ability and the capacity for independent work. Enrollment is by application only, and must be approved by the instructor and Department Chair in advance of registration. Completed applications must be received in the Dean's Office by the last class day of the semester preceding intended enrollment. Prerequisites: 1) At least 6 semester hours of classroom coursework in the field at

Texas A&M University-Corpus Christi. 2) A minimum GPA of 3.0 on all work in the field at Texas A&M University-Corpus Christi. 3) At least one previous classroom course with the supervising instructor. A maximum of 6 semester hours of 4396 credit may be counted towards the baccalaureate degree.

APPLIED EXPERIENCE 4398. 3 sem. hrs.

Applied Experience is a practical work experience related to the student's major area of study and career goals. It is intended to provide an opportunity for a student to gain first-hand experience in an unfamiliar field. Consequently, Applied Experience credit may not be granted for a student's regular work assignment or for previous work experience. Registration is by application. The application must include a clearly written description of the duties and responsibilities involved in the Applied Experience project, and be signed by the student, the on-site supervisor, and the faculty supervisor. Completed applications must be received in the Dean's Office by the last class day of the semester preceding intended registration. This course is graded "credit" or "no credit." No more than three semester hours of Applied Experience credit may be counted toward the baccalaureate degree. Undergraduate Applied Experience course will include no less than one hundred hours and no more than 150 hours of work experience per semester.

WORKSHOP COURSES (1-6 sem. hrs.)

Undergraduate workshop courses are offered in many areas of study in the College ending in a 0099 series number. The subjects vary and are announced in the semester schedule. These courses may be repeated when topics vary.

Undergraduate Courses

All course descriptions are located in course descriptions.

Certificates

Dance Certificate

The dance certificate is available to all majors in all disciplines and professionals or educators seeking a certificate to develop their skill and knowledge in the area of dance. This certificate will enhance the marketability of those students who are working towards teacher certification and would like to teach dance as a second discipline and theatre majors who are looking to pursue careers as professionals in the arts or those graduates who are looking to enhance their careers working in arts education, community theatre or health therapies. This certification will also prepare the student for the TExES/ExCET exam required to teach dance in the Texas public school system.

Student Learning Outcomes:

- Students obtaining a certificate in dance will demonstrate the technical, historical, cultural and choreographic dimensions of dance. Specifically the student will have the ability to:
- Develop relationship with world dance cultures and choreographic elements.
- Demonstrate written competencies in historical, cultural and critical analysis.
- Demonstrate competencies in ballet, jazz and modern dance technique

In order to receive a Dance Certificate, 15 semester hours with at least 9 semester hours in residence is required.

Required Courses

- * DANC 1141 - Ballet I **1 sem. hrs.**
- * DANC 1147 - Jazz Dance I **1 sem. hrs.** **
- * DANC 1148 - Modern Dance I **1 sem. hrs.**
- * DANC 1304 - Dance in Performance **3 sem. hrs.**
- DANC 3306 - Dance Composition **3 sem. hrs.**
- DANC 3303 - World Dance and Culture **3 sem. hrs.**
- DANC 4306 - Dance Composition II **3 sem. hrs.**

*May be repeated for credit.
**KINE 1124 - Beginning Jazz Dance may be substituted for DANC 1147.

New Media Arts Certificate

The New Media Arts Certificate provides a pathway for students to acquire applied communication skills valuable in today's era of media convergence, as well as the critical and theoretical background necessary to use those skills creatively and effectively. Students take required Communication courses in digital filmmaking, editing, and writing, as well as supporting courses from the Art Department in photography, graphic design, and web design. Students must also take a critical studies course on new media, and a capstone course in which they complete a project integrating these skills.

Required Courses (24 hours)

- ARTS 2356 - Photography I **3 sem. hrs.**
- COMM 3312 - Newswriting for Television, Radio, and the Internet **3 sem. hrs.**
- COMM 3313 - Production I **3 sem. hrs.**
- COMM 3315 - Editing I **3 sem. hrs.**
- COMM 3380 - New Media and Communication **3 sem. hrs.**
- COMM 4370 - Advanced New Media Project **3 sem. hrs.**
- GRDS 1301 - Foundations of Graphic Design **3 sem. hrs.**
- GRDS 4304 - Emerging Technologies **3 sem. hrs.**

Certification Requirements

Communication majors, as well as students from any other major, may pursue the certificate in order to acquire new media skills as they prepare to enter the workforce. Non-degree seeking students may also wish to pursue the certificate in order to update their own applied communication skills for the changing demands of the contemporary media environment.

TESOL Certificate

The TESOL (Teachers of English to Speakers of Other Languages) Certificate provides a pathway for students to acquire skills needed for teaching English internationally or teaching English to adult second language learners in the U.S. The certificate consists of 12 semester hours of four core courses (ENGL 3339, 3340, 3365, 3367). Students must have at least an overall GPA of 2.75 in the four courses. All courses must be passed with a C or better. Students must have completed all core curriculum composition and literature requirements with a C or better. Students must pursue the certificate in conjunction with their bachelor's degree; the certificate will be awarded upon completion of their degree. Students already holding a bachelor's degree may also pursue a TESOL certificate.

Required Courses (12 semester hours)

- ENGL 3339 - Introduction to Linguistics **3 sem. hrs.**
- ENGL 3340 - Grammar **3 sem. hrs.**
- ENGL 3365 - Second Language Acquisition **3 sem. hrs.**
- ENGL 3367 - TESOL Seminar **3 sem. hrs.**

Anthropology

Anthropology courses are offered for students in all fields of study. Anthropology courses may be counted as electives for the sociology major in consultation with a faculty advisor. These courses are intended for those without background in the discipline but are appropriate as an introduction for those intending to pursue the field elsewhere.

Course offerings can be viewed here.

Applied Science

Bachelor of Applied Science

Applied Science, BAS

The Bachelor of Applied Science program at Texas A & M University-Corpus Christi builds on knowledge and skills students with formal training in a vocational-technical studies area from accredited institutions and graduates from Applied Arts and Science Associate degree programs have acquired. A minimum of 120 hours is required for the Bachelor of Applied Science degree. The program consists of three components: first, the transfer of vocational/technical credit hours (33 hours); second, the completion of the Core Curriculum Program (45 hours) or the Core of another accredited institution in a state accredited college/university (see “General Education Requirement” in the “Undergraduate Programs” section of this catalog; see also "University Core Curriculum Programs"; and third, the completion of a professional core (18-27 hours) that affords both academic and professional depth to individuals who possess recognized competence in an occupational or technical field.

Student Learning Outcomes

Students will:

- understand concepts and practices within community-accepted standards relevant to each track;
- apply teamwork and communication skills to develop successful careers in their fields;
- apply professional and ethical awareness in the practices of their fields.

Students choose from among the following tracks:

Applied Leadership

This track is designed for students in any field who seek to advance their careers by taking on supervisory positions.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Vocational/ Technical Credit	33
D.	Required Courses	18
E.	Designated Electives	9
F.	University Electives	18
		Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses (18 semester hours)

- ACCT 2301 - Financial Accounting **3 sem. hrs.**
- COMM 4350 - Communication in Organizations **3 sem. hrs.**
- COMM 4345 - Intercultural Communication **3 sem. hrs.** OR
- COMM 3311 - Nonverbal Communication **3 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**
- POLS 3341 - Introduction to Public Administration **3 sem. hrs.** OR
- POLS 3342 - Introduction to Public Policy **3 sem. hrs.**
- SOCI 4315 - Complex Organizations **3 sem. hrs.**

Designated Electives (9 semester hours)

- ACCT 2302 - Managerial Accounting **3 sem. hrs.**
- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- BLAW 4350 - Human Resource Law **3 sem. hrs.**
- MGMT 3320 - Concepts of Human Resource Management **3 sem. hrs.**
- MGMT 4320 - Leadership and Managerial Effectiveness **3 sem. hrs.**
- MGMT 4330 - Business Ethics **3 sem. hrs.**
- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**
- COMM 4398 - Applied Experience **3 sem. hrs.**
- COMM 4399 - Communication Internship **3 sem. hrs.**
- COMM 3330 - Persuasion **3 sem. hrs.**
- COMM 3380 - New Media and Communication **3 sem. hrs.**

Childhood Development/Early Childhood Education

This track is designed for graduates of Applied Arts and Science programs in Child Development, as well as child care providers who seek additional qualifications.

Students who do not have vocational/technical hours may apply to complete the Bachelor of Applied Science (B.A.S.) degree with an Early Childhood track. The application will be approved if the student is able to demonstrate that his/her career goals are closely matched to a B.A.S. track and that he/she is unable to receive the necessary training from another degree offered by the university. Students must be in good academic standing to transfer to the B.A.S. Program.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Vocational/ Technical Credit	33
D. Required Courses	18
E. Designated Electives	9
F. University Electives	18
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses (18 semester hours)

- ELEM 3324 - Child Development and Appropriate Practices **3 sem. hrs.**
- ELEM 4350 - Social Studies **3 sem. hrs.**
- EDUC 3311 - School and Society **3 sem. hrs.**
- READ 3310 - Principles and Practices of Early Reading Instruction **3 sem. hrs.**
- READ 3321 - Principles and Practices of Reading Instruction, Grades 4 – 8 **3 sem. hrs.**

- SPED 4310 - Students with Exceptionalities **3 sem. hrs.**
  OR
- SPED 4320 - Community-based Instruction for the Students with Exceptionalities **3 sem. hrs.**
  OR
- SPED 4345 - Introduction to Students with Emotional and Behavior Disorders **3 sem. hrs.**

Designated Electives (9 semester hours)

- BIEM 4345 - Language Acquisition and Development **3 sem. hrs.**
- BIEM 4357 - Methods of Teaching English as a Second Language **3 sem. hrs.**
- EDUC 4324 - Instructional Design for Special Populations: Grades EC-6 **3 sem. hrs.**
- READ 3352 - Content Area Reading for Elementary Students **3 sem. hrs.**
- READ 4380 - Children's and Adolescents' Literature **3 sem. hrs.**
- SPED 4310 - Students with Exceptionalities **3 sem. hrs.** *

Community and Mental Health

This track is designed for graduates of the Addiction Option/Human Services or the Intergenerational/Human Services degrees and others who seek entry level positions in social service agencies such as Child Protective Services or Child/Elderly care facilities.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Vocational/ Technical Credit	33
D.	Required Courses	18
E.	Supporting Coursework	6-7
F.	University Electives	20-22

Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses (18 hours)

- PSYC 2314 - Lifespan Developmental Psychology **3 sem. hrs.** OR
- SOCI 3340 - Sociology of the Family **3 sem. hrs.**

- PSYC 3342 - Cognitive Psychology **3 sem. hrs.** OR
- PSYC 3363 - Abnormal Psychology **3 sem. hrs.** OR
- PSYC 4352 - Physiological Psychology **3 sem. hrs.**

- SOCI 3312 - Racial and Ethnic Relations **3 sem. hrs.**

- PSYC 4344 - Drug Use and Abuse **3 sem. hrs.** OR
- PSYC 3360 - Health Psychology **3 sem. hrs.**

- SOCW 3301 - Introduction to Social Work **3 sem. hrs.**

- SOCW 3310 - Approaches to Social Welfare **3 sem. hrs.** OR
- CRIJ 4331 - Juvenile Delinquency **3 sem. hrs.** OR
- SOCI 4331 - Juvenile Delinquency **3 sem. hrs.**

Designated Electives 7 hours

- PSYC 3411 - Experimental Psychology **4 sem. hrs.**
- SOCW 3320 - Social Services in the Community **3 sem. hrs.**
- PSYC 3375 - Introduction to Clinical Psychology **3 sem. hrs.**

Criminal Justice

This track is designed for graduates of associate's programs in law enforcement or corrections.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Vocational/ Technical Credit	33
D.	Required Courses	18
E.	Supporting Coursework	3
F.	University Electives	24
		Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses (18 semester hours)

- CRIJ 4331 - Juvenile Delinquency **3 sem. hrs.** OR
- CRIJ 4335 - Criminology **3 sem. hrs.**

- CRIJ 4345 - Research Methods in Criminal Justice **3 sem. hrs.**

- CRIJ 3302 - Police and Society **3 sem. hrs.** OR
- CRIJ 4351 - Police Supervision and Management **3 sem. hrs.**

- CRIJ 4312 - Law and Evidence **3 sem. hrs.** OR
- CRIJ 4311 - Criminal Law **3 sem. hrs.**

Two from (6 semester hours)

- CRIJ 3325 - Community-Based Corrections **3 sem. hrs.**
- CRIJ 4320 - Offender Rehabilitation **3 sem. hrs.**
- CRIJ 4321 - American Prisons and Prisoners **3 sem. hrs.**

Supporting Coursework (3 semester hours)

- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**

Digital Information Mapping*

This track prepares students for a variety of careers in digital mapping.

***The department is currently reviewing this track. Please view online information for updates.**

Degree Requirements

		Sem. Hrs
		42
A.	Core Curriculum Program	(2)
B.	First-Year Seminars (when applicable)*	33
C.	Vocational/ Technical Credit	19
D.	Required Courses	26
E.	University Electives	
		Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses (19 semester hours)

- GISC 2301 - Geospatial Systems II **3 sem. hrs.** (GISC 1470)**
- GISC 3420 - Geospatial Software Systems II **4 sem. hrs.** (GISC 2438)**
- GISC 3421 - Visualization for GIS **4 sem. hrs.** (GISC 1470)**
- GISC 4280 - Geospatial Systems Internship **2 sem. hrs.** (Repeatable for 4hrs) (Must have completed 60 semester hours before attempting)
- GISC 4335 - Geospatial Systems III **3 sem. hrs.** (GISC 3301)**
- GISC 4351 - Geospatial Systems Project **3 sem. hrs.** (GISC 4335)**

**Required Prerequisites

Emergency Response

This track prepares students planning careers in professions such as firefighter, police officer, emergency management planner, or incident response officer in the management of emergency situations such as natural disasters or major industrial incidents.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Vocational/ Technical Credit	33
D.	Required Courses	21
E.	Designated Electives	6
F.	University Electives	18
		Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses (21 semester hours)

- POLS 3341 - Introduction to Public Administration **3 sem. hrs.** OR
- POLS 3342 - Introduction to Public Policy **3 sem. hrs.**
- COMM 4350 - Communication in Organizations **3 sem. hrs.**
- CHEM 4490 - Special Topics **1-4 sem. hrs.** OR
- ESCI 4490 - Selected Topics **0-4 sem. hrs.** *
- ESCI 3202 - Professional Skills **2 sem. hrs.**
- ESCI 4301 - Environmental Regulations **3 sem. hrs.**
- ESCI 4330 - Oil Spill Prevention and Response **3 sem. hrs.**
- ESCI 4370 - Hazardous Waste Operations and Emergency Response **3 sem. hrs.**

*Topic must be approved by a faculty or academic advisor.

Designated Electives (6 semester hours)

- ESCI 4498 - Internship in Environmental Science **2 sem. hrs.**
- GISC 1470 - Geospatial Systems I **4 sem. hrs.**
- Other science elective as approved by Department

Environmental and Occupational Safety

This track prepares students planning a variety of careers in professions such as environmental safety officer, firefighter, and police officer in the management of workplace safety issues.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Vocational/ Technical Credit	33
D.	Required Courses	21
E.	Designated Electives	8
F.	University Electives	16
		Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses (20 semester hours)

- CHEM 4490 - Special Topics **1-4 sem. hrs.** OR
- ESCI 4490 - Selected Topics **0-4 sem. hrs.** *
- COMM 4350 - Communication in Organizations **3 sem. hrs.**
- ESCI 3202 - Professional Skills **2 sem. hrs.**
- ESCI 4301 - Environmental Regulations **3 sem. hrs.**
- ESCI 4320 - Environmental Health **3 sem. hrs.**
- ESCI 4365 - Occupational Safety and Accident Prevention **3 sem. hrs.**

- POLS 3341 - Introduction to Public Administration **3 sem. hrs.** OR
- POLS 3342 - Introduction to Public Policy **3 sem. hrs.**

*Topic must be approved by a faculty or academic advisor.

Designated Electives (7 semester hours)

- BIOL 2421 - Microbiology **4 sem. hrs.**
- CHEM 4443 - Environmental Chemistry **4 sem. hrs.**
- ESCI 4408 - Environmental Microbiology **4 sem. hrs.**
- GEOL 3443 - Environmental Geology **4 sem. hrs.**
- GISC 1470 - Geospatial Systems I **4 sem. hrs.**
- ESCI 4498 - Internship in Environmental Science **2 sem. hrs.**

Industrial Electronics and Manufacturing

This track prepares students for a variety of technical/professional careers such as industrial safety inspector, control systems technician, manufacturing specialist, manufacturing technologist, and electronics technician.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Vocational/ Technical Credit	33
D. Required Courses	18
E. Designated Electives	10
F. University Electives	17
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses (18 semester hours)

- ENTC 3302 - Manufacturing Processes **3 sem. hrs.**
- ENTC 2414 - Circuit Analysis I **4 sem. hrs.**
- ENTC 3410 - Material Science **4 sem. hrs.**
- MGMT 3312 - Behavior in Organizations **3 sem. hrs.**

Designated Electives (10 semester hours)

- ENTC 3323 - Robotics and Automation **3 sem. hrs.**
- ENTC 3406 - Fluid Mechanics **4 sem. hrs.**
- ENTC 3444 - Electronic Devices and Circuits I **4 sem. hrs.**
- ENTC 4322 - Programmable Logic Controllers **3 sem. hrs.**
- ENTC 4415 - Project Management **4 sem. hrs.**

Information Technology

This track prepares students for a variety of careers such as personal computer technician, network administrator, database manager, information security technician, and computer technology manager within commercial, industrial, educational and government organizations.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Vocational/ Technical Credit	33
D. Required Courses	18
E. Designated Electives	9
F. University Electives	18
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**

- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Prerequisite Courses (8 semester hours)

- COSC 1435 - Introduction to Problem Solving with Computers I **4 sem. hrs.**
- COSC 1436 - Introduction to Problem Solving with Computers II **4 sem. hrs.**
- Other prerequisites are noted below.

Required Courses (18 semester hours)

Choose nine (9) or twelve (12) semester hours from:

- COSC 3371 - Computer Information Systems Economics **3 sem. hrs.**
- COSC 3342 - Network Design and Management **3 sem. hrs.**
- COSC 3365 - Cyber Defense I **3 sem. hrs.**
- COSC 4365 - System Administration II **3 sem. hrs.**
- COSC 3366 - Network Administration II **3 sem. hrs.**

Choose three (3) semester hours from:

- COSC 3360 - Human-computer Interaction **3 sem. hrs.** OR
- COSC 3351 - Internet Programming **3 sem. hrs.**

Choose three (3) or six (6) semester hours from:

- COSC 4690 - Contracted Field Experience in Computer Science **1-6 sem. hrs.**

Designated Electives (9 semester hours)

Prerequisites: COSC 3324, 3336, 3370, and 3355 require COSC 2437 and MATH 2305.

- COSC 2365 - System Administration I **3 sem. hrs.**
- COSC 2366 - Network Administration I **3 sem. hrs.**
- COSC 2470 - COBOL Programming **4 sem. hrs.**
- COSC 3324 - Object-oriented Programming **3 sem. hrs.**

- COSC 3336 - Introduction to Database Systems **3 sem. hrs.**
- COSC 3370 - Software Engineering **3 sem. hrs.**
- COSC 3355 - Visual Programming Languages **3 sem. hrs.**

Legal Studies

This track is designed for graduates of Court Reporting, Legal Secretarial and Paralegal specialties who seek advancement in private law firms, federal or state governmental agencies, legal departments of corporations, banks, insurance companies, mortgage companies, law libraries, legal services/legal aid offices, and law departments of special interest groups or associations.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Vocational/ Technical Credit	33
D.	Required Courses	18
E.	Designated Electives	9
F.	University Electives	18
		Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses (18 semester hours)

- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- COMM 3330 - Persuasion **3 sem. hrs.**
- CRIJ 3310 - The Judicial Process **3 sem. hrs.**
- CRIJ 4310 - Constitutional Law **3 sem. hrs.**
- CRIJ 4312 - Law and Evidence **3 sem. hrs.**
- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**

Designated Electives (9 semester hours)

- BLAW 4350 - Human Resource Law **3 sem. hrs.**
- CRIJ 4311 - Criminal Law **3 sem. hrs.**
- POLS 3317 - Judicial Politics **3 sem. hrs.**
- POLS 3351 - U.S. Constitution and Federalism **3 sem. hrs.**
- SOCI 4310 - Sociology of Work and Occupations **3 sem. hrs.**

Technical Communication

This track is designed for graduates from a variety of Applied Arts and Sciences programs who seek preparation for career tracks that demand good communication skills. It provides entry into a fast growing, in-demand field.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Vocational/ Technical Credit	33
D.	Required Courses	18
E.	University Electives	27
		Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses (18 semester hours)

- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**
- ENGL 3375 - Writing in the Professions **3 sem. hrs.**

- ENGL 3378 - Document Design and Publishing **3 sem. hrs.** OR
- ENGL 3379 - Writing for the Web **3 sem. hrs.**

- ENGL 4320 - Professional Writing Workshop **3 sem. hrs.** OR
- ENGL 4321 - Grant Writing **3 sem. hrs.**

- ENGL 4397 - Applied Experience in Technical/Professional Writing **3 sem. hrs.**
- SOCI 4310 - Sociology of Work and Occupations **3 sem. hrs.**

Art

Bachelor of Arts

Art, BA

The Bachelor of Arts degree with major study in art is a general program in art. The degree requires a minimum of 51 semester hours of art coursework. Course selections include two- and three-dimensional art, art history, design, and art electives.

The College of Liberal Arts also requires at least 6 semester hours of a second language for the Bachelor of Arts degree in Art.

The purposes of the art curriculum are:

1. To provide a general program that allows students access to a variety of art media, studio techniques, and instruction;
2. To provide students with opportunities to study past and present forms of art and to understand the function of art in society;
3. To provide courses that will help expand the knowledge and interest of non-majors in the area of art; and
4. To contribute to the cultural life of the University and the community by presenting quality art exhibitions in the Weil Gallery.

Students can major in art in either the Bachelor of Arts (BA) or the Bachelor of Fine Arts (BFA) degree programs. Students in the BFA have the option through electives to develop an emphasis beyond the general degree program in Printmaking, Graphic Design, Painting, Sculpture, Ceramics, Photography, Drawing, or Art History.

Two minors are also available. The minor in Studio Art is 21 semester hours and will allow a student to concentrate in one studio area. The minor in Art History is 18 semester hours. Interested students should contact the department academic advisor.

Student Learning Outcomes

Students will have:

- knowledge in a variety of art media, studio techniques, and art history;
- the ability to clearly articulate the principles and theories of contemporary art as it applies to their creative interests;
- a working knowledge of visual problem solving and critical thinking.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements	57
D.	University Electives	13-15

E. Foreign Language Requirements 6

Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Course Requirements

- ARTS 1303 - Art History Survey I **3 sem. hrs.**
- ARTS 1304 - Art History Survey II **3 sem. hrs.**
- ARTS 1311 - Design I **3 sem. hrs.**
- ARTS 1312 - Design II **3 sem. hrs.**
- ARTS 1316 - Drawing I **3 sem. hrs.**
- ARTS 1317 - Drawing II **3 sem. hrs.**
- ARTS 2311 - Design III: Color **3 sem. hrs.**
- ARTS 2326 - Sculpture I **3 sem. hrs.**
- ARTS 2346 - Ceramics I **3 sem. hrs.**
- ARTS 2316 - Painting I **3 sem. hrs.**
- ARTS 2333 - Printmaking I **3 sem. hrs.**
- ARTS 2356 - Photography I **3 sem. hrs.**

From: 3 hrs.

- ARTS 2323 - Drawing III **3 sem. hrs.**
- GRDS 1301 - Foundations of Graphic Design **3 sem. hrs.**

Art History:

From: 3 hrs.

- ARTS 3352 - Modern Art **3 sem. hrs.**
- ARTS 3353 - Contemporary Art, 1945 to the Present **3 sem. hrs.**

From: 3 hrs.

- ARTS 3350 - Art of the United States **3 sem. hrs.**
- ARTS 4350 - Pre-Columbian Art of Mesoamerica **3 sem. hrs.**
- ARTS 4352 - Modern Art of Mexico **3 sem. hrs.**
- ARTS 4390 - Topics in Art **3 sem. hrs.** (Art History Topics only)

Art Electives (upper division): 12 hrs.

Note:

All students graduating with a Bachelor of Arts Degree in Art Studio are required to submit an exit portfolio. The portfolio consists of a CD-R (no DVD or CD-RW disks) with 6 .jpg images that best represent their most successful coursework during their educational careers in the Department of Art. A one page written summary of their learning experience is also required.

These portfolios are due to the Department of Art office (CA 105) by the last class day of the semester in which students plan to graduate.

Graphic Design, BA

Graphic Design is a creative and inspiring process that combines art and technology to communicate ideas and information visually from client to audience. Rooted in traditional art and design foundations, the focus of the Graphic Design curriculum is to educate and inform students of the impact design can make through the exploration of diverse problem-solving methodologies, innovative investigations, and creative research in all forms of visual communication. Through their studio work, Graphic Design majors will address issues stressing social and cultural awareness, integration of new technology, and sustainable practices while being prepared to enter into the evolving creative industry.

Student Learning Outcomes

Students will:

- Demonstrate an in-depth understanding of visual problem solving and critical thinking;
- Develop knowledge of graphic design history and apply this knowledge to printed, interactive, and three-dimensional design works;
- Practice creative problem solving in a client-based environment.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Required Courses	54
D. University Electives	18
E. Foreign Language Requirements	6
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Note:

Transfer students with 24 or more hours are exempt from First-Year Seminar.

Required Courses (54 hours)

- ARTS 1303 - Art History Survey I **3 sem. hrs.**
- ARTS 1304 - Art History Survey II **3 sem. hrs.**
- ARTS 1311 - Design I **3 sem. hrs.**
- ARTS 1316 - Drawing I **3 sem. hrs.**
- ARTS 2311 - Design III: Color **3 sem. hrs.**
- ARTS 2356 - Photography I **3 sem. hrs.**
- GRDS 1301 - Foundations of Graphic Design **3 sem. hrs.**
- GRDS 1302 - Typography I **3 sem. hrs.**
- GRDS 2301 - Historical Perspectives of Graphic Design **3 sem. hrs.**
- GRDS 2302 - Design Studio I **3 sem. hrs.**
- GRDS 3301 - Typography II **3 sem. hrs.**
- GRDS 3302 - Design Studio II **3 sem. hrs.**
- GRDS 3303 - Design for Good **3 sem. hrs.**
- GRDS 3305 - Packaging Design **3 sem. hrs.**
- GRDS 3310 - Corporate Identity **3 sem. hrs.**
- GRDS 4304 - Emerging Technologies **3 sem. hrs.**
- GRDS 4306 - Publication and Editorial Design **3 sem. hrs.**

- GRDS 4309 - Design in Advertising **3 sem. hrs.**
- GRDS 4310 - Portfolio and Professional Practices **3 sem. hrs.**
  *ARTS 1303 does not count as part of the required 54 hours and as such, must be taken as part of the student's core curriculum requirement.

Bachelor of Fine Arts

Art, BFA

The curriculum for the Bachelor of Fine Arts degree is designed to provide professional development at the undergraduate level in the visual arts, through in-depth study in studio art. The degree requires a minimum of 75 semester hours in art, at least 36 of which must be in upper-division coursework.

Admission to the BFA is by *special* application. Such application *can* be made upon completion of 30 semester hours of art coursework, and *must* be made before completion of 48 semester hours of art coursework. A portfolio consisting of ten to fifteen works representing a variety of media must be submitted in addition to the application form. Copies of specific BFA admission policies and instructions for submitting an application to the BFA program are available from the Department of Art website (cla.tamucc.edu/art/pages/art_currentstudents.html). Completed BFA applications should be submitted to the office of the Department Chair.

The purposes of the art curriculum are:

1. To provide a general program that allows students access to a variety of art media, studio techniques, and instruction;
2. To provide students with opportunities to study past and present forms of art and to understand the function of art in society;
3. To provide courses that will help expand the knowledge and interest of non-majors in the area of art; and
4. To contribute to the cultural life of the University and the community by presenting quality art exhibitions in the Weil Gallery.

Students can major in art in either the Bachelor of Arts (BA) or the Bachelor of Fine Arts (BFA) degree programs. Students in the BFA have the option through electives to develop an emphasis beyond the general degree program in Printmaking, Painting, Sculpture, Ceramics, Photography, Drawing, Graphic Design, or Art History.

The Bachelor of Fine Arts leading to all-level Teacher Certification is available.

Two minors are also available. The minor in Studio Art is 21 semester hours and will allow a student to concentrate in one studio area. The minor in Art History is 18 semester hours. Interested students should contact the department academic advisor.

Student Learning Outcomes

Students will have:

- A comprehensive level of professional development in the visual arts in preparation for specific careers;
- proficiency in studio processes and the understanding of conceptual theories and histories as evidenced in their graduating senior exhibitions;
- demonstrated expertise in their specific area of concentration.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	75
D. University Electives	3
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Course Requirements

- ARTS 1303 - Art History Survey I **3 sem. hrs.**
- ARTS 1304 - Art History Survey II **3 sem. hrs.**
- ARTS 1311 - Design I **3 sem. hrs.**
- ARTS 1312 - Design II **3 sem. hrs.**
- ARTS 1316 - Drawing I **3 sem. hrs.**
- ARTS 1317 - Drawing II **3 sem. hrs.**
- ARTS 2311 - Design III: Color **3 sem. hrs.**
- ARTS 2316 - Painting I **3 sem. hrs.**
- ARTS 2323 - Drawing III **3 sem. hrs.**
- ARTS 2326 - Sculpture I **3 sem. hrs.**
- ARTS 2333 - Printmaking I **3 sem. hrs.**
- ARTS 2346 - Ceramics I **3 sem. hrs.**
- ARTS 2356 - Photography I **3 sem. hrs.**
- ARTS 3301 - Life Drawing **3 sem. hrs.**
- ARTS 3302 - Intermediate Printmaking **3 sem. hrs.**
- ARTS 3303 - Intermediate Painting **3 sem. hrs.**
- ARTS 3304 - Intermediate Sculpture **3 sem. hrs.**
- ARTS 3324 - Intermediate Ceramics **3 sem. hrs.**
- GRDS 1301 - Foundations of Graphic Design **3 sem. hrs.**

Art History:

- ARTS 3352 - Modern Art **3 sem. hrs.**
- ARTS 3353 - Contemporary Art, 1945 to the Present **3 sem. hrs.**

From: 3 hrs.

- ARTS 3350 - Art of the United States **3 sem. hrs.**
- ARTS 4350 - Pre-Columbian Art of Mesoamerica **3 sem. hrs.**
- ARTS 4352 - Modern Art of Mexico **3 sem. hrs.**
- ARTS 4390 - Topics in Art **3 sem. hrs.**

Art Electives (upper division): 9 hrs.

Note:

A senior project is required of the BFA art major during the final semester as an undergraduate student. The student, with minimum assistance from the supervising faculty member, is expected to organize an exhibition of his or her work completed while a student at Texas A&M University-Corpus Christi. The student must be registered in a related course with the faculty advisor during the semester in which the project is presented. Students in the BFA art program are expected to spend one additional hour per week in the studio for each semester hour of studio enrollment.

Art, BFA with Teacher Certification

The curriculum for the Bachelor of Fine Arts degree leading to teacher certification is also designed to provide professional development at the undergraduate level for the prospective teacher in the visual arts, through in-depth study in studio art. The degree requires a minimum of 60 semester hours in art, at least 30 of which must be in upper-division coursework.

Admission to the BFA leading to teacher certification is by *special* application. Such application *can* be made upon completion of 30 semester hours of Art coursework, and *must* be made before completion of 48 semester hours of Art coursework. A portfolio consisting of ten to fifteen works representing a variety of media must be submitted in addition to the application form. Copies of specific admission policies and instructions for submitting an application to the program are available from the Department of Art website (cla.tamucc.edu/art_currentstudents.html). Completed applications should be submitted to the office of the Department Chair.

The purposes of the art curriculum are:

1. To provide a general program that allows students access to a variety of art media, studio techniques, and instruction;
2. To provide students with opportunities to study past and present forms of art and to understand the function of art in society;
3. To provide courses that will help expand the knowledge and interest of non-majors in the area of art; and
4. To contribute to the cultural life of the University and the community by presenting quality art exhibitions in the Weil Gallery.

Two minors are also available. The minor in Studio Art is 21 semester hours and will allow a student to concentrate in one studio area. The minor in Art History is 18 semester hours. Interested students should contact the department academic advisor.

Student Learning Outcomes

- demonstrate competencies in studio art;
- be able to successfully pass the test for State Board for Educator Certification enabling them to teach K-12 within the State of Texas;
- have the ability to articulate principles and theories of contemporary art as it applies to the teaching/learning environment.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements	60
D.	Professional Development Requirements	24
E.	Teacher Certification Requirements	3
		Total 129 (131)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Course Requirements

- ARTS 1303 - Art History Survey I **3 sem. hrs.**
- ARTS 1304 - Art History Survey II **3 sem. hrs.**
- ARTS 1311 - Design I **3 sem. hrs.**
- ARTS 1312 - Design II **3 sem. hrs.**
- ARTS 1316 - Drawing I **3 sem. hrs.**
- ARTS 1317 - Drawing II **3 sem. hrs.**

Art Activities:

- ARTS 3316 - Art Activities I **3 sem. hrs.**

- ARTS 3322 - Art Activities II **3 sem. hrs.**
  (All art coursework above must be completed prior to enrollment in ARTS 3316 and ARTS 3322. Both of these courses must be successfully completed prior to student teaching.)
- ARTS 2311 - Design III: Color **3 sem. hrs.**
- ARTS 2316 - Painting I **3 sem. hrs.**
- ARTS 2323 - Drawing III **3 sem. hrs.**
- ARTS 2326 - Sculpture I **3 sem. hrs.**
- ARTS 3301 - Life Drawing **3 sem. hrs.**
- ARTS 2333 - Printmaking I **3 sem. hrs.**
- ARTS 2346 - Ceramics I **3 sem. hrs.**

From: 3 hrs.

- ARTS 3304 - Intermediate Sculpture **3 sem. hrs.**
- ARTS 3324 - Intermediate Ceramics **3 sem. hrs.**

From: 6 hrs.

- ARTS 3302 - Intermediate Printmaking **3 sem. hrs.**
- ARTS 3303 - Intermediate Painting **3 sem. hrs.**
- GRDS 1301 - Foundations of Graphic Design **3 sem. hrs.**

Art History:

From: 3 hrs.

- ARTS 3352 - Modern Art **3 sem. hrs.**
- ARTS 3353 - Contemporary Art, 1945 to the Present **3 sem. hrs.**

From: 3 hrs.

- ARTS 3350 - Art of the United States **3 sem. hrs.**
- ARTS 4350 - Pre-Columbian Art of Mesoamerica **3 sem. hrs.**
- ARTS 4352 - Modern Art of Mexico **3 sem. hrs.**
- ARTS 4390 - Topics in Art **3 sem. hrs.** (Art History topics only)

Note:

Students in the program are expected to spend one additional hour per week in the studio for each upper division semester hour of studio enrollment.

Other Certification Requirements

For information on required professional development courses and other teacher certification requirements, please see the College of Education section of this catalog. Students should also consult the Certification Office of the College of Education for complete and current information about teacher certification requirements.

To qualify to take the TExES (Texas Examinations of Educator Standards) in the field of Art, students must meet the following criteria:

1. Make pre-specified acceptable scores on TExES practice tests, or departmental equivalent, and participate in practice test review and analysis session.
2. Provide official permit with signature of Program Coordinator or designated person for each teaching field on the student's certification plan.

Students must also qualify to take the Professional Development TExES.

Minor

Art History Minor

Lower Division

- ARTS 1303 - Art History Survey I **3 sem. hrs.**
- ARTS 1304 - Art History Survey II **3 sem. hrs.**

Upper Division

Select four courses from: 12 hrs.

- ARTS 3350 - Art of the United States **3 sem. hrs.**
- ARTS 3352 - Modern Art **3 sem. hrs.**
- ARTS 3353 - Contemporary Art, 1945 to the Present **3 sem. hrs.**
- ARTS 4350 - Pre-Columbian Art of Mesoamerica **3 sem. hrs.**
- ARTS 4352 - Modern Art of Mexico **3 sem. hrs.**
- ARTS 4390 - Topics in Art **3 sem. hrs.**

Studio Art Minor

Lower Division

- ARTS 1316 - Drawing I **3 sem. hrs.**

3 hours From:

- ARTS 1311 - Design I **3 sem. hrs.**
- ARTS 1312 - Design II **3 sem. hrs.**

Designated Electives:

Select five, four of which must be upper level. Students will be able to concentrate in one studio area with this minor. Advanced studio courses with 4300 numbers may be taken three times for credit.

- ARTS 2311 - Design III: Color **3 sem. hrs.**
- ARTS 2316 - Painting I **3 sem. hrs.**
- ARTS 2323 - Drawing III **3 sem. hrs.**
- ARTS 2326 - Sculpture I **3 sem. hrs.**
- ARTS 2333 - Printmaking I **3 sem. hrs.**
- ARTS 2346 - Ceramics I **3 sem. hrs.**
- ARTS 2356 - Photography I **3 sem. hrs.**
- GRDS 1302 - Typography I **3 sem. hrs.**
- ARTS 2367 - Watercolor **3 sem. hrs.**
- ARTS 3301 - Life Drawing **3 sem. hrs.**
- ARTS 3302 - Intermediate Printmaking **3 sem. hrs.**
- ARTS 3303 - Intermediate Painting **3 sem. hrs.**
- ARTS 3304 - Intermediate Sculpture **3 sem. hrs.**
- ARTS 3324 - Intermediate Ceramics **3 sem. hrs.**
- GRDS 1301 - Foundations of Graphic Design **3 sem. hrs.**
- ARTS 3365 - Intermediate Photography **3 sem. hrs.**
- ARTS 4301 - Advanced Drawing **3 sem. hrs.**
- ARTS 4302 - Advanced Printmaking **3 sem. hrs.**
- ARTS 4303 - Advanced Painting **3 sem. hrs.**
- ARTS 4324 - Advanced Ceramics **3 sem. hrs.**
- GRDS 4310 - Portfolio and Professional Practices **3 sem. hrs.**
- ARTS 4365 - Advanced Photography **3 sem. hrs.**
- ARTS 4390 - Topics in Art **3 sem. hrs.**

- ARTS 4391 - Topics in Studio Art **3 sem. hrs.**
- ARTS 4396 - Directed Individual Study **3 sem. hrs.**

Communication and Media

Bachelor of Arts

Communication, BA

The focus of the program in Communication is to enhance students' knowledge and practical skills in various areas of human communication, media, and technical production. Core coursework in Communication provides a general, theoretical background in the field. All Communication majors must complete the Communication Core Courses. In addition, Communication majors will select a primary program area in either Communication Studies, Media Studies, or Media Production. The Communication Studies emphasis offers understanding in the theory and practice of human communication in a variety of contexts including interpersonal, organizational, intercultural, and public communication. The Media Studies emphasis offers historical and critical study of a variety of media contexts, such as film, television, print, and new media, as well as opportunities to acquire basic writing and production skills. The Media Production emphasis offers a curriculum focused on equipping students with skills in the theory and application of moving image creation and expertise in shooting, editing, and visual storytelling. It is critical for all Communication majors to meet with their academic advisor prior to registering each semester.

Student Learning Outcomes:

Students will:

- Create individual as well as collaborative written, oral and/or electronic media projects that demonstrate effective use of communication strategies.
- Identify and analyze issues in communication ethics.
- Understand communication theories and apply them in analyzing communication interactions and texts.

Degree Requirements

Communication Studies and Media Studies Emphases

		Sem. Hrs.
A.	Core Curriculum Programs	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements	39
D.	Electives	31-33
E.	Foreign Language Requirements	6
		Total 120

Media Production Emphasis

	Sem. Hrs.
A. Core Curriculum Programs	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	45
D. Electives	25-27
E. Foreign Language Requirements	6
	Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Communication Core Courses (9 semester hours, required for all majors)

- COMM 1307 - Media and Society **3 sem. hrs.**
- COMM 1370 - Introduction to Communication **3 sem. hrs.**
- COMM 3310 - Communication Theory **3 sem. hrs.**

Communication Studies Emphasis (30 semester hours)

Communication Studies Requirements:

(18 semester hours, required for students in the Communication Studies Emphasis)

- COMM 1318 - Interpersonal Communication **3 sem. hrs.**
- COMM 2333 - Small Group Communication **3 sem. hrs.**
- COMM 3311 - Nonverbal Communication **3 sem. hrs.**
- COMM 3320 - Business and Professional Communication **3 sem. hrs.**
- COMM 4345 - Intercultural Communication **3 sem. hrs.**
- COMM 4380 - Senior Seminar in Communication Studies **3 sem. hrs.**

Communication Studies Electives:

(12 semester hours, select four of the following courses)

- COMM 1342 - Voice and Diction **3 sem. hrs.**
- COMM 2350 - Media Writing and Performance **3 sem. hrs.**
- COMM 3325 - Relational Communication **3 sem. hrs.**
- COMM 3330 - Persuasion **3 sem. hrs.**
- COMM 3341 - Public Relations Cases and Strategies **3 sem. hrs.**
- COMM 4314 - Gender Communication **3 sem. hrs.**
- COMM 4331 - Public Relations Techniques **3 sem. hrs.**
- COMM 4335 - Crisis Communication **3 sem. hrs.**
- COMM 4340 - Advertising Criticism **3 sem. hrs.**
- COMM 4350 - Communication in Organizations **3 sem. hrs.**
- COMM 4390 - Topics in Communication **3 sem. hrs.**
- COMM 4395 - First Amendment and Ethical Issues in the Media **3 sem. hrs.**
- COMM 4396 - Directed Individual Study **3 sem. hrs.** *
- COMM 4398 - Applied Experience **3 sem. hrs.** **
- COMM 4399 - Communication Internship **3 sem. hrs.** **

Note:

*Only 3 semester hours of Directed Individual Study credit may be counted toward the major.

**Only 3 semester hours of Internship or Applied Experience credit may be counted toward the major.

Media Studies Emphasis (30 semester hours)

Media Studies Requirements:

(21 semester hours, required for students in the Media Studies Emphasis)

- COMM 2366 - Media Forms **3 sem. hrs.**
- COMM 2367 - Media Industries **3 sem. hrs.**
- COMM 3301 - Television Criticism **3 sem. hrs.**
- COMM 3380 - New Media and Communication **3 sem. hrs.**
- COMM 4381 - Senior Seminar in Media Studies **3 sem. hrs.**

Select one of the following courses:

- COMM 2350 - Media Writing and Performance **3 sem. hrs.**
- COMM 3312 - Newswriting for Television, Radio, and the Internet **3 sem. hrs.**
- COMM 3320 - Business and Professional Communication **3 sem. hrs.**

Select one of the following courses:

- COMM 3313 - Production I **3 sem. hrs.**
- COMM 3314 - Television Production **3 sem. hrs.**
- COMM 3315 - Editing I **3 sem. hrs.**

Media Studies Electives:

(9 semester hours, select three of the following courses)

- COMM 3302 - Film Criticism **3 sem. hrs.**
- COMM 3303 - Documentary Studies **3 sem. hrs.**
- COMM 3312 - Newswriting for Television, Radio, and the Internet **3 sem. hrs.**
- COMM 3351 - Screen Comedy **3 sem. hrs.**
- COMM 3360 - Screenplay Writing **3 sem. hrs.**
- COMM 4342 - Global Media and International Communication **3 sem. hrs.**
- COMM 4370 - Advanced New Media Project **3 sem. hrs.**
- COMM 4390 - Topics in Communication **3 sem. hrs.**
- COMM 4395 - First Amendment and Ethical Issues in the Media **3 sem. hrs.**
- COMM 4396 - Directed Individual Study **3 sem. hrs.** *
- COMM 4398 - Applied Experience **3 sem. hrs.** **
- COMM 4399 - Communication Internship **3 sem. hrs.** **

Note:

*Only 3 semester hours of Directed Individual Study credit may be counted toward the major.

**Only 3 semester hours of Internship or Applied Experience credit may be counted toward the major.

Media Production Emphasis (36 semester hours)

Media Production Requirements:

(21 semester hours, required for students in the Media Production Emphasis)

- COMM 2366 - Media Forms **3 sem. hrs.**
- COMM 2367 - Media Industries **3 sem. hrs.**
- COMM 3313 - Production I **3 sem. hrs.**
- COMM 3315 - Editing I **3 sem. hrs.**
- COMM 3316 - Production II **3 sem. hrs.**

Select one of the following courses:

- COMM 3301 - Television Criticism **3 sem. hrs.**
- COMM 3303 - Documentary Studies **3 sem. hrs.**
- COMM 3380 - New Media and Communication **3 sem. hrs.**

Select one of the following courses:

- COMM 4310 - Advanced Production: Documentary **3 sem. hrs.**
- COMM 4312 - Advanced Production: Narrative **3 sem. hrs.**

Media Production Electives:

(15 semester hours, select five of the following courses)

- ARTS 2356 - Photography I **3 sem. hrs.**
- COMM 3301 - Television Criticism **3 sem. hrs.**
- COMM 3302 - Film Criticism **3 sem. hrs.**
- COMM 3303 - Documentary Studies **3 sem. hrs.**
- COMM 3314 - Television Production **3 sem. hrs.**
- COMM 3320 - Business and Professional Communication **3 sem. hrs.**
- COMM 3351 - Screen Comedy **3 sem. hrs.**
- COMM 3360 - Screenplay Writing **3 sem. hrs.**
- COMM 3380 - New Media and Communication **3 sem. hrs.**
- COMM 4310 - Advanced Production: Documentary **3 sem. hrs.**
- COMM 4312 - Advanced Production: Narrative **3 sem. hrs.**
- COMM 4342 - Global Media and International Communication **3 sem. hrs.**
- COMM 4371 - Acting for the Camera **3 sem. hrs.**
- COMM 4390 - Topics in Communication **3 sem. hrs.**
- COMM 4395 - First Amendment and Ethical Issues in the Media **3 sem. hrs.**
- COMM 4396 - Directed Individual Study **3 sem. hrs.** *
- COMM 4398 - Applied Experience **3 sem. hrs.** **
- COMM 4399 - Communication Internship **3 sem. hrs.** **
- GRDS 1301 - Foundations of Graphic Design **3 sem. hrs.**
- GRDS 2302 - Design Studio I **3 sem. hrs.**
- GRDS 4304 - Emerging Technologies **3 sem. hrs.**
- MIND 3311 - Applications of Music Technology **3 sem. hrs.**

Note:

*Only 3 semester hours of Directed Individual Study credit may be counted toward the major.

**Only 3 semester hours of Internship or Applied Experience credit may be counted toward the major.

Teacher Certificate

Speech Communication Teacher Certification

Requirements for the secondary certification plan in Speech Communication are as follows:

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements	30
D.	Professional Development	24
E.	Teacher Certification Requirements	3
F.	University Electives	13-15
G.	Foreign Language Requirements	6
		Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Required Courses:

- COMM 1307 - Media and Society **3 sem. hrs.**
- COMM 1318 - Interpersonal Communication **3 sem. hrs.**
- COMM 2333 - Small Group Communication **3 sem. hrs.**
- COMM 3301 - Television Criticism **3 sem. hrs.**
- COMM 3310 - Communication Theory **3 sem. hrs.**
- COMM 3311 - Nonverbal Communication **3 sem. hrs.**
- COMM 3330 - Persuasion **3 sem. hrs.**
- COMM 3335 - UIL Debate and Speech **3 sem. hrs.**
- COMM 4345 - Intercultural Communication **3 sem. hrs.**
- COMM 4395 - First Amendment and Ethical Issues in the Media **3 sem. hrs.**

Total: 30

Note:

Students choosing Speech Communication as a teaching field must also satisfy the requirements for the major in Communication. All students seeking certification in Speech Communication should select a faculty advisor in the Communication area to help them select appropriate courses.

Other Certification Requirements

For information on required professional development courses and other teacher certification requirements, please see the College of Education section of this catalog. Students should also consult the Certification Office of the College of Education for complete and current information about teacher certification requirements.

To qualify to take the TExES (Texas Examinations of Educator Standards) in the field of Communication, students must meet the following criteria:

1. Make pre-specified acceptable scores on TExES practice tests, or departmental equivalent, and participate in practice test review and analysis session.
2. Provide official permit with signature of Program Coordinator or designated person for each teaching field on the student's certification plan.

Students must also qualify to take the Professional Development TExES.

Minor

Communication Minor

Degree Requirements

The minor in Communication consists of 18 semester hours of Communication coursework. Three courses are required: COMM 1307 - Media and Society, COMM 1370 - Introduction to Communication, and COMM 3310 - Communication Theory. Additionally, students pursuing the minor must take either COMM 4380 Senior Seminar in Communication Studies or COMM 4381 Senior Seminar in Media Studies.

Select the remaining two courses from the following electives:

- COMM 3301 - Television Criticism **3 sem. hrs.**
- COMM 3302 - Film Criticism **3 sem. hrs.**
- COMM 3311 - Nonverbal Communication **3 sem. hrs.**
- COMM 3312 - Newswriting for Television, Radio, and the Internet **3 sem. hrs.**
- COMM 3313 - Production I **3 sem. hrs.**
- COMM 3314 - Television Production **3 sem. hrs.**
- COMM 3320 - Business and Professional Communication **3 sem. hrs.**
- COMM 3325 - Relational Communication **3 sem. hrs.**

- COMM 3330 - Persuasion **3 sem. hrs.**
- COMM 3335 - UIL Debate and Speech **3 sem. hrs.**
- COMM 3341 - Public Relations Cases and Strategies **3 sem. hrs.**
- COMM 3351 - Screen Comedy **3 sem. hrs.**
- COMM 3360 - Screenplay Writing **3 sem. hrs.**
- COMM 3380 - New Media and Communication **3 sem. hrs.**
- COMM 4310 - Advanced Production: Documentary **3 sem. hrs.**
- COMM 4314 - Gender Communication **3 sem. hrs.**
- COMM 4331 - Public Relations Techniques **3 sem. hrs.**
- COMM 4335 - Crisis Communication **3 sem. hrs.**
- COMM 4340 - Advertising Criticism **3 sem. hrs.**
- COMM 4345 - Intercultural Communication **3 sem. hrs.**
- COMM 4350 - Communication in Organizations **3 sem. hrs.**
- COMM 4390 - Topics in Communication **3 sem. hrs.**
- COMM 4395 - First Amendment and Ethical Issues in the Media **3 sem. hrs.**

Digital Journalism Minor

The Digital Journalism minor will prepare TAMU-CC students for jobs within the ever-changing field of journalism. Within the core, students will learn the history and development of mass media within the United States, newswriting, legal, and ethical issues surrounding journalism and interviewing skills. Through elective credits, students will have the opportunity to take courses in the supporting areas of graphic design, web development, photography, video production, and media consumption.

Digital Journalism Core (9 hours)

- COMM 1307 - Media and Society **3 sem. hrs.**
- COMM 3312 - Newswriting for Television, Radio, and the Internet **3 sem. hrs.**
- COMM 4395 - First Amendment and Ethical Issues in the Media **3 sem. hrs.**

Designated Electives (Choose 12 hours minimum)

- ARTS 2356 - Photography I **3 sem. hrs.**
- COMM 2350 - Media Writing and Performance **3 sem. hrs.**
- COMM 3301 - Television Criticism **3 sem. hrs.**
- COMM 3313 - Production I **3 sem. hrs.**
- COMM 3315 - Editing I **3 sem. hrs.**
- COMM 3380 - New Media and Communication **3 sem. hrs.**
- COMM 4342 - Global Media and International Communication **3 sem. hrs.**
- COMM 4398 - Applied Experience **3 sem. hrs.**
- COMM 4399 - Communication Internship **3 sem. hrs.**
- ENGL 3379 - Writing for the Web **3 sem. hrs.**
- GRDS 1301 - Foundations of Graphic Design **3 sem. hrs.**

- GRDS 4304 - Emerging Technologies **3 sem. hrs.**
- MISY 4330 - Website Development for Business **3 sem. hrs.**

Public Relations Minor

The mission of the Public Relations profession is to develop positive relationships between organizations and their publics. The Public Relations Minor is designed for students interested in gaining a basic understanding of the history, function, and tools of Public Relations. The courses that comprise this minor are heavily focused on the development and application of skills utilized by PR professionals, as well as an understanding of theories and concepts necessary for professional writing, critical analysis and creative thinking. The minor consists of 21 semester hours, which include 4 core courses. At least 15 hours for the minor must be upper division.

This minor is for students who have a basic understanding of communication and/or business theory, in addition to effective writing skills. These courses contain a heavy writing component. These courses will not serve as remedial courses for students with writing problems or substitute for required courses in students' majors.

Students who select this minor must consult with the Faculty Adviser to the Public Relations Minor prior to completing 6 semester hours of coursework listed in the program. The minor declaration must be filed with the Advisor in the College of Liberal Arts.

Students who are interested in this minor must have completed Composition I and II (ENGL 1301 & ENGL 1302) and COMM 1315 - Public Speaking with the grade of "C" or better. Furthermore, students must meet any prerequisite requirements for courses in their program.

Students must complete the following required courses: (12 hours)

- COMM 2350 - Media Writing and Performance **3 sem. hrs.**
- COMM 3341 - Public Relations Cases and Strategies **3 sem. hrs.**
- COMM 4331 - Public Relations Techniques **3 sem. hrs.**
- COMM 4335 - Crisis Communication **3 sem. hrs.**

Students may select from the following courses: (9 hours)

(Elective selection must be approved by the Faculty Adviser to the Public Relations Minor)

- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**
- ENGL 3375 - Writing in the Professions **3 sem. hrs.**
- COMM 3312 - Newswriting for Television, Radio, and the Internet **3 sem. hrs.**
- COMM 3320 - Business and Professional Communication **3 sem. hrs.**
- COMM 3330 - Persuasion **3 sem. hrs.**
- COMM 3380 - New Media and Communication **3 sem. hrs.**
- COMM 4340 - Advertising Criticism **3 sem. hrs.**
- COMM 4350 - Communication in Organizations **3 sem. hrs.**
- COMM 4399 - Communication Internship **3 sem. hrs.**
- GRDS 2302 - Design Studio I **3 sem. hrs.**
- MKTG 3310 - Principles of Marketing **3 sem. hrs.**

Economics

Bachelor of Arts

Economics, BA

The Bachelor of Arts in Economics provides students with a liberal arts approach to economics, which includes an emphasis on qualitative reasoning, public policy and the multidisciplinary aspects of the subject. Students are given entry-level knowledge, skills, and concepts for positions requiring an understanding of how the economy operates, how government interacts with and affects economic outcomes, and how the economy impacts and is impacted by social and political factors. Possible career opportunities for graduates include entry-level positions in public policy jobs in the private and government sectors, teaching economics at the high school level (with additional educational qualifications), and employment in administrative positions. In addition, the economics major offers an excellent preparation for graduate studies in law, economics and other social sciences.

Core courses for the B.A. in Economics provide students with a background in macroeconomics, microeconomics, money and banking, international economic issues, and history of economic thought. Students earning the B.A. in Economics select electives in the areas of sociology, history, and political science, providing them with a liberal arts framework for their study of economics.

Student Learning Outcomes

Students will:

- Demonstrate an understanding of the concepts and theories of economics.
- Demonstrate an understanding of the basic issues in public policy, both in domestic and international terms.
- Apply reasoning and analytical skills so as to enter a professional or graduate program, or to qualify for a career related to economics.

Students choosing to major in Economics must complete the following coursework.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements	36
D.	University Electives	34-36
E.	Foreign Language Requirements	6
		Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Economics Core: (21 sem. hrs.)

- ECON 2301 - Macroeconomics Principles **3 sem. hrs.**
- ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- ECON 3310 - Intermediate Macroeconomics **3 sem. hrs.**
- ECON 3311 - Intermediate Microeconomics **3 sem. hrs.**
- ECON 3312 - Money and Banking **3 sem. hrs.**
- ECON 3315 - International Economic Issues **3 sem. hrs.**
- ECON 4388 - History of Economic Thought **3 sem. hrs.**

Three Economics (or related) Electives: (9 sem. hrs.)

- ECON 3316 - Environmental Economics **3 sem. hrs.**
- ECON 3322 - Managerial Economics **3 sem. hrs.**
- ECON 4310 - Introduction to Econometrics **3 sem. hrs.**
- ECON 3320 - Public Finance **3 sem. hrs.**

Two Other Electives (6 sem. hrs.)

- SOCI 3315 - Population **3 sem. hrs.**
- SOCI 4312 - Social Class and Inequality **3 sem. hrs.**
- POLS 3342 - Introduction to Public Policy **3 sem. hrs.**
- HIST 4325 - U.S. Business and Labor History **3 sem. hrs.**

English

Bachelor of Arts

English, BA

The undergraduate English program at Texas A&M University-Corpus Christi promotes the development of students' analytic ability and critical understanding of language and written texts in English as well as their ability to compose texts in various genres through the study of literature, linguistics, and rhetoric and composition. The program prepares students seeking entry into post-baccalaureate degree programs, as well as careers that require language and writing expertise, such as law, business, teaching, technology, and the sciences.

Student Learning Outcomes:

At the end of the program, students will be able to:

- Analyze written texts in English from appropriate historical, social, and theoretical perspectives;
- Respond analytically to literary works using appropriate critical terminology;
- Analyze characteristics of one's own writing in terms of discourse genres;
- Produce academic research papers that effectively synthesize sources into coherent arguments; and
- Produce academic research papers that illustrate appropriate documentation skills.

The undergraduate English program offers a major in English, curricula for secondary English certification, and minors in English and Creative Writing. It also participates in the interdisciplinary minors of Technical and Professional Writing, Journalism, and Women and Gender Studies (see descriptions under "Interdisciplinary Minors"). Upper-level courses in composition and rhetoric, linguistics, and literature may satisfy requirements for other disciplines and serve as electives for non-majors who wish to improve their analytic, writing, and technical skills and to broaden their experiences in the liberal arts.

Emphasizing critical and creative writing and literary interpretation, English plays an important role in the Core Curriculum Program. The First-Year Writing Program (ENGL 1301 - Composition I and ENGL 1302 - Composition II) provides a link between lecture courses in the university's interdisciplinary triads and tetrads. All freshman classes are taught in fully equipped computer labs. After successful completion of ENGL 1301 and ENGL 1302, students may satisfy the core curriculum requirement in literature by taking one of the following: ENGL 2332, ENGL 2333, ENGL 2334, ENGL 2335 or SPAN 3307, SPAN 3308, SPAN 3309, SPAN 3310.

Beyond the English requirements of the Core Curriculum Program, the English major requires a minimum of 42 semester hours of English coursework, at least 30 of which must be at the upper-division level. In addition to their core curriculum literature course, sophomore level English majors should take ENGL 2370 - Introduction to English Studies, the introductory course to the major. In the last year of coursework, students must take the capstone course, ENGL 4351 - Senior Capstone: 20th and 21st Century Literature and Writing. To complete the English requirements for the major, students must take the following:

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	42
D. Supporting Coursework	3
E. University Electives	25-27
F. Foreign Language Requirements	6
	Total 120

*First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

University (English) Core Requirements:

- ENGL 1301 - Composition I **3 sem. hrs.**
- ENGL 1302 - Composition II **3 sem. hrs.**

3 hrs from

- ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.**
- ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.**
- ENGL 2334 - Themes and Genres in English Literatures **3 sem. hrs.**
- ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.**
  OR
- SPAN 3307 - Spanish Literature I **3 sem. hrs.**
- SPAN 3308 - Spanish Literature II **3 sem. hrs.**
- SPAN 3309 - Spanish American Literature I **3 sem. hrs.**
- SPAN 3310 - Spanish American Literature II **3 sem. hrs.**

Major Requirements:

- ENGL 2370 - Introduction to English Studies **3 sem. hrs.**
- ENGL 3339 - Introduction to Linguistics **3 sem. hrs.**
- ENGL 4304 - Shakespeare: Texts and Contexts **3 sem. hrs.**
- ENGL 4351 - Senior Capstone: 20th and 21st Century Literature and Writing **3 sem. hrs.**
- ENGL 4380 - Critical Approaches to Literature and Culture **3 sem. hrs.**

In addition to the requirements listed above, students will also select courses from the following clusters:

3 hrs from Rhetoric, Language, and Cultural Discourse:

- ENGL 3363 - Rhetoric **3 sem. hrs.** **
- ENGL 3366 - Language in Society **3 sem. hrs.**
- ENGL 3367 - TESOL Seminar **3 sem. hrs.**
- ENGL 3368 - Community Literacy and Service Learning **3 sem. hrs.**
- ENGL 3369 - Topics in Linguistics **3 sem. hrs.**
- ENGL 3379 - Writing for the Web **3 sem. hrs.**
- ENGL 4345 - Rhetoric, Literature, and Writing **3 sem. hrs.**
- ENGL 4390 - Topics in English **3 sem. hrs.** *
- ENGL 3365 - Second Language Acquisition **3 sem. hrs.**

6 hrs from Conventions and Genres:

- ENGL 3320 - The Bible as Literature **3 sem. hrs.**
- ENGL 3321 - Film and Literature **3 sem. hrs.**
- ENGL 3323 - Literary Perspectives on Young Adult Fiction and Poetry **3 sem. hrs.**
- ENGL 3348 - Drama **3 sem. hrs.**
- ENGL 3349 - Themes and Forms of Poetry **3 sem. hrs.**
- ENGL 3353 - The Short Story **3 sem. hrs.**
- ENGL 4340 - The Novel **3 sem. hrs.**
- ENGL 4350 - Studies in Poetics and Poetry of the 19th to 21st Centuries **3 sem. hrs.**
- ENGL 4354 - Science Fiction **3 sem. hrs.**
- ENGL 4362 - Topics in American Literature **3 sem. hrs.** *
- ENGL 4390 - Topics in English **3 sem. hrs.** *

3 hrs from British Literary History:

- ENGL 3341 - Literature of the English Renaissance **3 sem. hrs.**
- ENGL 3342 - British Literature before the Renaissance **3 sem. hrs.**
- ENGL 3345 - British Literature of the 19th through 21st Centuries **3 sem. hrs.**

3 hrs from American Literary History:

- ENGL 3354 - American Literature: to 1865 **3 sem. hrs.**
- ENGL 3355 - American Literature: Late 19th and Early 20th Century **3 sem. hrs.**
- ENGL 3356 - American Literature: Since 1945 **3 sem. hrs.**

6 hrs from 4000-level Literary History:

- ENGL 4305 - Major Authors in British Literature **3 sem. hrs.**
- ENGL 4306 - Major Authors in American Literature **3 sem. hrs.**
- ENGL 4311 - Literature of the English Romantic Period **3 sem. hrs.**
- ENGL 4312 - Literature of the English Victorian Period **3 sem. hrs.**
- ENGL 4313 - British Literature of the 20th and 21st Centuries **3 sem. hrs.**
- ENGL 4360 - Literature and Gender **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.**
- ENGL 4362 - Topics in American Literature **3 sem. hrs.** *
- ENGL 4390 - Topics in English **3 sem. hrs.** *

6 hrs from Invention:

- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**
- ENGL 3357 - Reading and Writing Autobiography **3 sem. hrs.**
- ENGL 3361 - Strategies and Genres of Advanced Writing **3 sem. hrs.**
- ENGL 3362 - Techniques of Creative Writing **3 sem. hrs.**
- ENGL 3364 - Expressive Writing and the Journal **3 sem. hrs.**
- ENGL 3375 - Writing in the Professions **3 sem. hrs.**
- ENGL 3378 - Document Design and Publishing **3 sem. hrs.**
- ENGL 4320 - Professional Writing Workshop **3 sem. hrs.**
- ENGL 4321 - Grant Writing **3 sem. hrs.**
- ENGL 4330 - Creative Writing Workshop I **3 sem. hrs.**
- ENGL 4335 - Creative Writing Workshop II **3 sem. hrs.**
- ENGL 4390 - Topics in English **3 sem. hrs.** *

Total hours beyond Core Curriculum Program: 42 hrs

Note:

*When topic is approved for cluster—see S.A.I.L. or advisor for further information.

**For Honors students only.

All English majors not seeking secondary teaching certification must successfully complete one semester of either HIST 2311 - Western Civilization I or HIST 2312 - Western Civilization II.

Major in English, BA with Secondary Teacher Certification in English Language Arts (Grades 7-12)

Admission and Retention Requirements for English Certification

For admission to and retention in Teacher Education in the field of English, students must achieve and sustain a 3.0 GPA in all English coursework. To qualify to take the English TExES examination, students must meet the following criteria:

1. Have at least a 2.5 GPA on all college coursework (lower and upper level).
2. Have completed one English TExES Review Workshop at Texas A&M University-Corpus Christi.

Students who meet the above criteria must request permission to take the TExES certification exam via the College of Education's TExES Approval/Request System (TAR) at <http://tar.tamucc.edu>. The English TExES Coordinator will approve all students who meet the above criteria. In addition, it is strongly recommended that students take two English TExES Review Workshops before they take the exam.

Students returning to the University to complete certification must see the English TExES coordinator to identify any course deficiencies in the student's teaching field. All criteria outlined in the plan must be met before the student will be permitted to take the English TExES.

Students seeking certification must also qualify to take the Professional Development TExES. For information, see the College of Education section of this catalog.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)	(2)
C. Major Requirements	39
D. Professional Development	24
E. Teacher Certification Requirements	9
F. Foreign Language Requirements	6
G. University Electives	3
	Total 123 (125)

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

University (English) Core Requirements

- ENGL 1301 - Composition I **3 sem. hrs.**
- ENGL 1302 - Composition II **3 sem. hrs.**

3 hrs from:

- ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.**
- ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.**
- ENGL 2334 - Themes and Genres in English Literatures **3 sem. hrs.**
- ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.**
  OR
- SPAN 3307 - Spanish Literature I **3 sem. hrs.**
- SPAN 3308 - Spanish Literature II **3 sem. hrs.**
- SPAN 3309 - Spanish American Literature I **3 sem. hrs.**
- SPAN 3310 - Spanish American Literature II **3 sem. hrs.**

English Program Requirements:

- ENGL 2370 - Introduction to English Studies **3 sem. hrs.**
- ENGL 3340 - Grammar **3 sem. hrs.**
- ENGL 3360 - Current Approaches to Composition and Literature **3 sem. hrs.**
- ENGL 3361 - Strategies and Genres of Advanced Writing **3 sem. hrs.**
- ENGL 4304 - Shakespeare: Texts and Contexts **3 sem. hrs.**
- ENGL 4351 - Senior Capstone: 20th and 21st Century Literature and Writing **3 sem. hrs.**

In addition to the requirements listed above, students will also select courses from the following clusters:

3 hrs from Conventions and Genres:

- ENGL 3320 - The Bible as Literature **3 sem. hrs.**
- ENGL 3321 - Film and Literature **3 sem. hrs.**
- ENGL 3323 - Literary Perspectives on Young Adult Fiction and Poetry **3 sem. hrs.**
- ENGL 3348 - Drama **3 sem. hrs.**
- ENGL 3349 - Themes and Forms of Poetry **3 sem. hrs.**
- ENGL 3353 - The Short Story **3 sem. hrs.**
- ENGL 4340 - The Novel **3 sem. hrs.**
- ENGL 4350 - Studies in Poetics and Poetry of the 19th to 21st Centuries **3 sem. hrs.**
- ENGL 4354 - Science Fiction **3 sem. hrs.**
- ENGL 4362 - Topics in American Literature **3 sem. hrs.** *

- ENGL 4390 - Topics in English **3 sem. hrs.** *

3-hrs from British Literary History:

- ENGL 3341 - Literature of the English Renaissance **3 sem. hrs.**
- ENGL 3342 - British Literature before the Renaissance **3 sem. hrs.**
- ENGL 3345 - British Literature of the 19th through 21st Centuries **3 sem. hrs.**

3-hrs from American Literary History:

- ENGL 3354 - American Literature: to 1865 **3 sem. hrs.**
- ENGL 3355 - American Literature: Late 19th and Early 20th Century **3 sem. hrs.**
- ENGL 3356 - American Literature: Since 1945 **3 sem. hrs.**

6 hrs from 4000-level Literary History:

- ENGL 4305 - Major Authors in British Literature **3 sem. hrs.**
- ENGL 4306 - Major Authors in American Literature **3 sem. hrs.**
- ENGL 4311 - Literature of the English Romantic Period **3 sem. hrs.**
- ENGL 4312 - Literature of the English Victorian Period **3 sem. hrs.**
- ENGL 4313 - British Literature of the 20th and 21st Centuries **3 sem. hrs.**
- ENGL 4360 - Literature and Gender **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.**
- ENGL 4362 - Topics in American Literature **3 sem. hrs.** *
- ENGL 4390 - Topics in English **3 sem. hrs.** *

3 hrs from Invention:

- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**
- ENGL 3357 - Reading and Writing Autobiography **3 sem. hrs.**
- ENGL 3361 - Strategies and Genres of Advanced Writing **3 sem. hrs.**
- ENGL 3362 - Techniques of Creative Writing **3 sem. hrs.**
- ENGL 3364 - Expressive Writing and the Journal **3 sem. hrs.**
- ENGL 3375 - Writing in the Professions **3 sem. hrs.**
- ENGL 3378 - Document Design and Publishing **3 sem. hrs.**
- ENGL 3379 - Writing for the Web **3 sem. hrs.**
- ENGL 4320 - Professional Writing Workshop **3 sem. hrs.**

- ENGL 4321 - Grant Writing **3 sem. hrs.**
- ENGL 4330 - Creative Writing Workshop I **3 sem. hrs.**
- ENGL 4335 - Creative Writing Workshop II **3 sem. hrs.**
- ENGL 4345 - Rhetoric, Literature, and Writing **3 sem. hrs.**
- ENGL 4390 - Topics in English **3 sem. hrs.** *

3 Elective hrs from:

- ENGL 3339 - Introduction to Linguistics **3 sem. hrs.**
- ENGL 3365 - Second Language Acquisition **3 sem. hrs.**
- ENGL 3366 - Language in Society **3 sem. hrs.**
- ENGL 3367 - TESOL Seminar **3 sem. hrs.**
- ENGL 3368 - Community Literacy and Service Learning **3 sem. hrs.**
- ENGL 3369 - Topics in Linguistics **3 sem. hrs.**
- ENGL 4380 - Critical Approaches to Literature and Culture **3 sem. hrs.**

Total English hours beyond Core Curriculum Program: 39 hrs

Note:

*When topic is approved for cluster—see S.A.I.L. or advisor for further information.

Other Certification Coursework Requirements:

- READ 3351 - Diagnosis and Correction of Reading Problems **3 sem. hrs.**
- READ 3353 - Content Area Reading for Secondary Students **3 sem. hrs.**
- READ 3355 - Teaching Reading in the Secondary School **3 sem. hrs.**

Total beyond Core Curriculum Program: 48 hrs

Note:

Students seeking teacher certification in English Language Arts (7-12) must take the courses listed above in addition to the Core Curriculum Program curriculum and all professional development courses. Please see the College of Education for the list of professional development requirements.

Major in English, BA with Teacher Certification in English Language Arts (Grades 4-8)

Admission and Retention Requirements for English Certification

For admission to and retention in Teacher Education in the field of English, students must achieve and sustain a 3.0 GPA in all English coursework. To qualify to take the English TExES examination, students must meet the following criteria:

1. Have at least a 2.5 GPA on all college coursework (lower and upper level).
2. Have completed one English TExES Review Workshop at Texas A&M University-Corpus Christi. This workshop must be taken in the semester prior to the term the student takes the TExES.

Students who meet the above criteria must request permission to take the TExES certification exam via the College of Education's TExES Approval/Request System (TAR) at <http://tar.tamucc.edu>. The English TExES Coordinator will approve all students who meet the above criteria. In addition, it is strongly recommended that students take a second English TExES Review Workshop in the semester that they take the exam.

Students returning to the University to complete certification must see the English TExES coordinator to identify any course deficiencies in the student's teaching field. All criteria outlined in the plan must be met before the student will be permitted to take the English TExES.

Students seeking certification must also qualify to take the Professional Development TExES. For information, see the College of Education section of this catalog.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)	(2)
C. Major Requirements	33
D. Professional Development	24
E. Teacher Certification Requirements	18
F. Foreign Language Requirements	6
	Total 123 (125)

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

University (English) Core Requirements:

- ENGL 1301 - Composition I **3 sem. hrs.**
- ENGL 1302 - Composition II **3 sem. hrs.**

3 hrs from

- ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.**
- ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.**
- ENGL 2334 - Themes and Genres in English Literatures **3 sem. hrs.**
- ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.**
  OR
- SPAN 3307 - Spanish Literature I **3 sem. hrs.**
- SPAN 3308 - Spanish Literature II **3 sem. hrs.**
- SPAN 3309 - Spanish American Literature I **3 sem. hrs.**
- SPAN 3310 - Spanish American Literature II **3 sem. hrs.**

English Program Requirements:

- ENGL 2370 - Introduction to English Studies **3 sem. hrs.**
- ENGL 3340 - Grammar **3 sem. hrs.**
- ENGL 3360 - Current Approaches to Composition and Literature **3 sem. hrs.**
- ENGL 4304 - Shakespeare: Texts and Contexts **3 sem. hrs.**
- ENGL 4351 - Senior Capstone: 20th and 21st Century Literature and Writing **3 sem. hrs.**
- ENGL 4370 - Oral Interpretation of Children's Literature **3 sem. hrs.**

In addition to the requirements listed above, students will also select courses from the following clusters:

6 hrs from Conventions & Genres:

- ENGL 3320 - The Bible as Literature **3 sem. hrs.**
- ENGL 3321 - Film and Literature **3 sem. hrs.**
- ENGL 3323 - Literary Perspectives on Young Adult Fiction and Poetry **3 sem. hrs.**
- ENGL 3348 - Drama **3 sem. hrs.**
- ENGL 3349 - Themes and Forms of Poetry **3 sem. hrs.**
- ENGL 3353 - The Short Story **3 sem. hrs.**

- ENGL 4340 - The Novel **3 sem. hrs.**
- ENGL 4350 - Studies in Poetics and Poetry of the 19th to 21st Centuries **3 sem. hrs.**
- ENGL 4354 - Science Fiction **3 sem. hrs.**
- ENGL 4362 - Topics in American Literature **3 sem. hrs.** *
- ENGL 4390 - Topics in English **3 sem. hrs.** *

3 hrs from 3000 Level British Literary History:

- ENGL 3341 - Literature of the English Renaissance **3 sem. hrs.**
- ENGL 3342 - British Literature before the Renaissance **3 sem. hrs.**
- ENGL 3345 - British Literature of the 19th through 21st Centuries **3 sem. hrs.**

3 hrs from 3000 Level American Literary History:

- ENGL 3354 - American Literature: to 1865 **3 sem. hrs.**
- ENGL 3355 - American Literature: Late 19th and Early 20th Century **3 sem. hrs.**
- ENGL 3356 - American Literature: Since 1945 **3 sem. hrs.**

3 Elective hours from:

- ENGL 3339 - Introduction to Linguistics **3 sem. hrs.**
- ENGL 3361 - Strategies and Genres of Advanced Writing **3 sem. hrs.**
- ENGL 3365 - Second Language Acquisition **3 sem. hrs.**
- ENGL 3366 - Language in Society **3 sem. hrs.**
- ENGL 3367 - TESOL Seminar **3 sem. hrs.**
- ENGL 3368 - Community Literacy and Service Learning **3 sem. hrs.**
- ENGL 3379 - Writing for the Web **3 sem. hrs.**

Total English hours beyond Core Curriculum Program: 30 hrs

Note:

*When topic is approved for cluster - see S.A.I.L. or advisor for further information.

Other Certification Coursework Requirements:

- READ 3321 - Principles and Practices of Reading Instruction, Grades 4 – 8 **3 sem. hrs.**
- READ 3351 - Diagnosis and Correction of Reading Problems **3 sem. hrs.**
- SMTE 1350 - Fundamentals of Mathematics I **3 sem. hrs.**
- SMTE 1351 - Fundamentals of Mathematics II **3 sem. hrs.**
- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.**
- SMTE 3316 - Foundational Approaches to the Life Sciences **3 sem. hrs.**

Total hours beyond Core Curriculum Program: 48 hrs

Note:

Students seeking teacher certification in English Language Arts (4-8) must take the courses listed above in addition to the Core Curriculum Program curriculum and all professional development courses. Please see the College of Education for the list of professional development requirements.

Minor

Creative Writing Minor

This minor is for students who have a desire to develop their creative writing skills (mainly in short fiction and poetry) through the imaginative consideration of literature, including published American literature and their own and their peers' writing. Students of all majors are welcome. The minor consists of 18 semester hours and includes four core courses. Prerequisite courses for the minor are ENGL 1301 - Composition I, ENGL 1302 - Composition II, and core curriculum literature (ENGL 2332, ENGL 2333, ENGL 2334, ENGL 2335 or SPAN 3307, SPAN 3308, SPAN 3309, SPAN 3310) passed with a C or better. Any student may take individual courses in the minor as long as he or she has met the prerequisites.

Students who select this minor must consult with an Academic Advisor in the College of Liberal Arts prior to completing 6 hours of coursework listed for the program. Students are also encouraged to discuss the program with faculty members who teach the courses. The minor plan must be filed with an Academic Advisor in the College of Liberal Arts and certified prior to application for graduation by the Dean of the College in which the major study degree will be awarded. In order to graduate with a minor in Creative Writing, students must maintain an overall grade point average of 2.0 in courses in the minor.

Core Courses in Creative Writing (12 semester hours)

- ENGL 2370 - Introduction to English Studies **3 sem. hrs.**
- ENGL 3362 - Techniques of Creative Writing **3 sem. hrs.**
- ENGL 4330 - Creative Writing Workshop I **3 sem. hrs.**
- ENGL 4335 - Creative Writing Workshop II **3 sem. hrs.**

3 hrs from Studies in Genre:

- ENGL 3323 - Literary Perspectives on Young Adult Fiction and Poetry **3 sem. hrs.**
- ENGL 3349 - Themes and Forms of Poetry **3 sem. hrs.**
- ENGL 3353 - The Short Story **3 sem. hrs.**
- ENGL 3357 - Reading and Writing Autobiography **3 sem. hrs.**
- ENGL 3364 - Expressive Writing and the Journal **3 sem. hrs.**
- ENGL 4340 - The Novel **3 sem. hrs.**
- ENGL 4350 - Studies in Poetics and Poetry of the 19th to 21st Centuries **3 sem. hrs.**
- MXAS 4390 - Topics in Mexican American Studies **3 sem. hrs.** (Chicano/a Poetry)

3 hrs from Studies in Contemporary Literature:

- ENGL 3356 - American Literature: Since 1945 **3 sem. hrs.**
- ENGL 4354 - Science Fiction **3 sem. hrs.**
- ENGL 4360 - Literature and Gender **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.**
- MXAS 3311 - Mexican American Literature **3 sem. hrs.**

English Minor

The minor in English (literature) consists of 18 semester hours of English coursework in addition to the core requirements in English, and must include ENGL 2370, two 3000-level literature courses, two 4000-level literature courses, and one elective 3000—4000-English literature course.

Technical and Professional Writing Minor

Although this area does not offer the baccalaureate degree, it does offer an interdisciplinary minor.

This interdisciplinary and flexible minor provides students in all majors with writing experiences, including problem-solving, communications (both online and face-to-face), team work, sensitivity to diversity, and ethical decision making, that will enhance their education and prepare them to meet the demands of professional life, whatever their chosen career path. Students, in consultation with advisors, will design the series of minor courses to meet their needs and goals.

Students who select this minor must have passed Composition I and II (ENGL 1301 and ENGL 1302) with a grade of C or better, and must maintain an overall grade point average of 2.0 in courses in the minor. Students who select this minor must consult with an academic advisor in the College of Liberal Arts prior to completing 6 hours of coursework listed for the program.

The minor consists of 18 semester hours. Students are required to take:

- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**

9 hours from the following courses:

- ENGL 3375 - Writing in the Professions **3 sem. hrs.**
- ENGL 3378 - Document Design and Publishing **3 sem. hrs.**
- ENGL 3379 - Writing for the Web **3 sem. hrs.**
- ENGL 4320 - Professional Writing Workshop **3 sem. hrs.**
- ENGL 4321 - Grant Writing **3 sem. hrs.**
- ENGL 4397 - Applied Experience in Technical/Professional Writing **3 sem. hrs.**

The remaining 6 hours will be chosen from ENGL courses not taken in the above sequence or from courses relevant to technical and professional writing listed below.

- COMM 3310 - Communication Theory **3 sem. hrs.**
- COMM 3312 - Newswriting for Television, Radio, and the Internet **3 sem. hrs.**
- COMM 3380 - New Media and Communication **3 sem. hrs.**
- COMM 4345 - Intercultural Communication **3 sem. hrs.**
- COMM 4350 - Communication in Organizations **3 sem. hrs.**
- ARTS 2356 - Photography I **3 sem. hrs.**
- GRDS 1301 - Foundations of Graphic Design **3 sem. hrs.**
- ARTS 3365 - Intermediate Photography **3 sem. hrs.**

Humanities

Bachelor of Arts

History, BA

The history curriculum offers courses that provide all University students with the opportunity to deepen their understanding and appreciation of the development of the United States, Latin America, and Europe. These courses also assist students in refining their reading, listening, critical thinking, writing, communication, and research skills. The history curriculum offers integrated perspectives on political, social, economic, cultural, and military factors, which have shaped the city, the state, the nation, the region, Asia, Europe, and Latin America.

The history major is designed for students seeking certification for grades 4-8 and secondary education, a greater understanding of the past, or preparation for graduate-level studies in the humanities and law. Drawing upon the holdings of the Special

Collections and Archives Department as well as other library resources, the program also offers graduate courses for students enrolled in the Master of Arts in History program and for those selecting history as a field in the Master of Arts in Interdisciplinary Studies degree.

The history major requires a minimum of 33 semester hours of history coursework, at least 27 of which must be at the upper-division level. Six additional hours of lower division United States history are required as part of the Core Curriculum Program curriculum. The College of Liberal Arts also requires students in history to take at least 6 hours of a second language.

Student Learning Outcomes

Students will:

- think critically, read analytically, and write clearly;
- conduct independent research, handle primary sources, and construct an original historical thesis;
- and understand the social, economic, and political dimensions of historical development.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	27-33
D. Electives	37-39
E. Foreign Language Requirements	6
	Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Lower Division

- * HIST 1301 - U.S. History to 1865 **3 sem. hrs.**
- * HIST 1302 - U.S. History Since 1865 **3 sem. hrs.**
- HIST 2311 - Western Civilization I **3 sem. hrs.**
- HIST 2312 - Western Civilization II **3 sem. hrs.**

Upper Division

- HIST 4385 - Historical Research and Writing **3 sem. hrs.**

3 hours from:

- HIST 3315 - Europe 1750-1815 **3 sem. hrs.**
- HIST 3317 - Europe 1815-1914 **3 sem. hrs.**
- HIST 3319 - Europe 1914 to the Present **3 sem. hrs.**
- HIST 4340 - European Women's History **3 sem. hrs.**
- HIST 4342 - The Holocaust **3 sem. hrs.**
- HIST 4345 - European Thought and Culture, 1750-present **3 sem. hrs.**

3 hours from:

- HIST 3302 - Latin American History **3 sem. hrs.**
- HIST 3340 - Modern Asia **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**

6 hours from:

- HIST 3320 - Colonial and Revolutionary U.S. **3 sem. hrs.**
- HIST 3321 - The Early American Republic **3 sem. hrs.**
- HIST 3323 - Civil War and Reconstruction **3 sem. hrs.**
- HIST 3324 - U.S. Gilded Age and Progressive Era **3 sem. hrs.**
- HIST 3325 - Emergence of Modern U.S. **3 sem. hrs.**
- HIST 3326 - U.S. Since 2nd World War **3 sem. hrs.**
- HIST 3331 - Texas History **3 sem. hrs.**
- HIST 3335 - The U.S. Urban Experience **3 sem. hrs.**
- HIST 3345 - American Environmental History **3 sem. hrs.**
- HIST 4320 - U.S. Cultural Experience **3 sem. hrs.**
- HIST 4325 - U.S. Business and Labor History **3 sem. hrs.**
- HIST 4327 - U.S. Modern Popular Culture **3 sem. hrs.**
- HIST 4335 - The Military and United States History **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**

- HIST 4350 - Narratives of World War II in the Pacific **3 sem. hrs.**

6 hours from:

- HIST 3301 - History of World Religions **3 sem. hrs.**
- HIST 3340 - Modern Asia **3 sem. hrs.**
- HIST 4346 - The Search for Modern China: From 1600 to the Present **3 sem. hrs.**
- HIST 4350 - Narratives of World War II in the Pacific **3 sem. hrs.**
- HIST 4373 - Mexico: the Colonial Period **3 sem. hrs.**
- HIST 4374 - Mexico: the National Period **3 sem. hrs.**

Note:

*Included in the University Core Curriculum

History majors must also take 6 hours of electives from the following:

6 hours from:

- ENGL 4360 - Literature and Gender **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 4340 - European Women’s History **3 sem. hrs.**
- MXAS 3301 - Introduction to Mexican American Studies **3 sem. hrs.**
- MXAS 3311 - Mexican American Literature **3 sem. hrs.**
- MXAS 4390 - Topics in Mexican American Studies **3 sem. hrs.**
- POLS 3311 - Women and Politics **3 sem. hrs.**
- SOCI 3312 - Racial and Ethnic Relations **3 sem. hrs.**
- SOCI 3321 - Mexican American Women **3 sem. hrs.**

Total: 33 hrs.

Note:

Students planning to pursue graduate study should elect additional courses which help achieve proficiency in foreign languages and/or statistics.

Philosophy, BA

Philosophy involves rigorous, persistent reflection on a wide range of issues, such as how one ought to live, the existence of God and the problem of evil, the relation between mind and body, and the ways in which beliefs may be justified. Students in philosophy courses learn to:

- understand important periods, themes, movements, and figures in the history of philosophy;
- apply ethical theories to major social issues;
- analyze arguments using the principles and methods of logic;
- develop their own philosophical views and arguments;
- evaluate responses to problems in metaphysics, epistemology, and other areas of philosophy.

The study of philosophy can have a significant impact on one's beliefs and values, and it helps develop a variety of intellectual skills and abilities which students can put to use in their lives, whatever they choose to do after they graduate. Among those skills and abilities are the capacities to engage in thinking that is critical, disciplined and creative; to express oneself effectively and appreciate the ideas and perspectives of others; to uncover and examine assumptions; to understand, construct, and evaluate arguments on different sides of issues; and to deal reasonably with questions to which there are no easy answers.

Studying philosophy also prepares students well for professional careers in such fields as law, ministry, psychology, business, and medicine, and for postgraduate work in philosophy. In recent years, philosophy majors have achieved exceptionally high scores on admissions tests to law schools and business schools (the LSAT and the GMAT) and on the GRE. They have been extremely successful in gaining admission to law schools and medical schools.

Students may select philosophy as a major or as a minor. Philosophy courses are also offered as electives for students in all fields of study.

Degree Requirements

Students majoring in philosophy must complete a minimum of 30 semester hours of philosophy course work (in addition to the 3 hours of philosophy required as part of the University core curriculum), at least 24 of which must be at the upper-division level. The course work must be selected from the groups of courses listed below .

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	30
D. University Electives	40-42
E. Foreign Language Requirements	6
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

6 hours from Basic Philosophy Courses

- PHIL 1301 - Introduction to Philosophy **3 sem. hrs.**
- PHIL 2303 - Introduction to Logic and Critical Thinking **3 sem. hrs.**

6 hours from History of Philosophy

- PHIL 3306 - History of Eastern Philosophy I **3 sem. hrs.**
- PHIL 3307 - History of Eastern Philosophy II **3 sem. hrs.**
- PHIL 4321 - Ancient Philosophy **3 sem. hrs.** **
- PHIL 4322 - Modern Philosophy **3 sem. hrs.** **
- PHIL 4323 - Contemporary Philosophy **3 sem. hrs.** **

6 hours from Metaphysics and Epistemology

- PHIL 3327 - American Philosophy **3 sem. hrs.**
- PHIL 4303 - Minds and Machines **3 sem. hrs.**
- PHIL 4304 - Metaphysics **3 sem. hrs.**
- PHIL 4305 - Epistemology **3 sem. hrs.**
- PHIL 4321 - Ancient Philosophy **3 sem. hrs.** **
- PHIL 4322 - Modern Philosophy **3 sem. hrs.** **
- PHIL 4323 - Contemporary Philosophy **3 sem. hrs.** **
- PHIL 4330 - Philosophy and History of Science and Technology **3 sem. hrs.**
- PHIL 4331 - Issues in Philosophy of Religion **3 sem. hrs.**

3 hours from Values and Society

- PHIL 3342 - Philosophy of Love and Sex **3 sem. hrs.**
- PHIL 3343 - Philosophy of Law **3 sem. hrs.**
- PHIL 3344 - Social and Political Philosophy **3 sem. hrs.**
- PHIL 3345 - The Meaning of Life **3 sem. hrs.**
- PHIL 3348 - Ethics, War, and Terrorism **3 sem. hrs.**
- PHIL 4332 - Moral Issues in Contemporary Medicine **3 sem. hrs.**
- PHIL 4333 - Environmental Ethics **3 sem. hrs.**
- PHIL 4335 - Moral Philosophy **3 sem. hrs.**

9 hours from Prescribed Electives; students may select (a) courses from the list below, or (b) any other upper-level philosophy courses except PHIL 2306 that they are not using to satisfy the requirements of the groups listed above.

- PHIL 3346 - Elementary Formal Logic **3 sem. hrs.**
- PHIL 3347 - Philosophy and Science Fiction **3 sem. hrs.**
- PHIL 4336 - Advanced Seminar in Philosophy **3 sem. hrs.**
- PHIL 4337 - Philosophy of Language **3 sem. hrs.**
- PHIL 4390 - Topics in Philosophy **3 sem. hrs.**
- PHIL 4396 - Directed Individual Study **1-3 sem. hrs.**

Students are encouraged to take PHIL 1301 and PHIL 2303 as early as possible in their pursuit of the major.

**May count towards either the History of Philosophy requirement or the Metaphysics and Epistemology requirement (but cannot be counted towards both requirements).

Spanish, BA

The Spanish program offers courses in Spanish Language, Linguistics, and Literatures. The main focus of the program is to develop the student's language proficiency and the literary and cultural competencies demanded by many professional fields. To accomplish these goals, the Spanish curriculum includes courses in Spanish proficiency, Hispanic linguistics, and Spanish and Spanish-American literatures and civilizations, and other related fields. These courses are provided for students pursuing a Bachelor of Arts degree and/or secondary teacher certification in Spanish, for those fulfilling Second Language requirements or the literature requirement in the Core Curriculum Program, and for those seeking electives to support majors and minors in other fields.

Student Learning Outcomes

Students will

- Demonstrate advanced proficiency in Spanish through performance on examinations, in-class presentations, and research papers;
- demonstrate a comprehensive understanding of the cultural, linguistic and literary aspects of the Spanish-speaking countries through in-class presentations, and research papers;
- be able to analyze and interpret these concepts through in-class presentations, written reports and research projects;
- be prepared to teach Spanish and/or continue their studies at the graduate level

For students planning to register for 3000 or 4000 level courses, a prerequisite of twelve hours or its equivalent is required. For teacher certification, both the TExES examination (LOTE-613 [Languages Other Than English]) and the PPR-160 (Pedagogy and Professional Responsibilities Test) must be completed.

Students interested in Credit by Examination should refer to the University policy in this catalog.

The Bachelor of Arts in Spanish requires a minimum of 30 semester hours in Spanish or Spanish related areas, at least 18 of which must be at the upper-division level. Students seeking a B.A. in Spanish are required to take the following courses:

Degree Requirements

	Semester Hours
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	30
D. University Electives	40-42
E. Foreign Language Requirement	6
	Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year student are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

18 hours from: *

- SPAN 3302 - Spanish Composition **3 sem. hrs.**
- SPAN 3303 - Spanish Conversation **3 sem. hrs.**
- SPAN 3304 - Spanish Civilization **3 sem. hrs.**
- SPAN 3305 - Spanish American Civilization **3 sem. hrs.**
- SPAN 3307 - Spanish Literature I **3 sem. hrs.**
- SPAN 3308 - Spanish Literature II **3 sem. hrs.**
- SPAN 3309 - Spanish American Literature I **3 sem. hrs.**
- SPAN 3310 - Spanish American Literature II **3 sem. hrs.**
- SPAN 3311 - Spanish Phonetics **3 sem. hrs.**
- SPAN 3312 - Spanish Grammar **3 sem. hrs.**
- SPAN 3315 - Civilizations of the Spanish-speaking World **3 sem. hrs.**
- SPAN 4301 - Spanish Civil War and Literature **3 sem. hrs.**
- SPAN 4302 - Mexican Narrative **3 sem. hrs.**
- SPAN 4303 - Spanish in the Southwest **3 sem. hrs.**
- SPAN 4320 - Spanish in the Americas **3 sem. hrs.**
- SPAN 4327 - Methods in Foreign Language Instruction **3 sem. hrs.**
- SPAN 4390 - Topics in Spanish **3 sem. hrs.** **

12 hours from:

- SPAN 1000, 2000, 3000, 4000 Spanish course not taken before***
- ARTS 4350 - Pre-Columbian Art of Mesoamerica **3 sem. hrs.**
- ARTS 4352 - Modern Art of Mexico **3 sem. hrs.**
- ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.**
- HIST 3302 - Latin American History **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 4373 - Mexico: the Colonial Period **3 sem. hrs.**
- HIST 4374 - Mexico: the National Period **3 sem. hrs.**
- MXAS 3301 - Introduction to Mexican American Studies **3 sem. hrs.**
- MXAS 3311 - Mexican American Literature **3 sem. hrs.**
- MXAS 4390 - Topics in Mexican American Studies **3 sem. hrs.**
- POLS 4315 - Mexican American Politics **3 sem. hrs.**
- POLS 4325 - Politics in Latin America **3 sem. hrs.**
- SOCI 3321 - Mexican American Women **3 sem. hrs.**

Note:

*Depending on the upper-level Spanish course, students must demonstrate at least an intermediate level of proficiency before taking 3000 or 4000 courses. Students can do this by taking SPAN 2311 & 2312 or equivalent, or by visiting with Spanish faculty for advice.

**May be repeated when topics vary.

***Not more than 6 hours at the 1000 level.

Teacher Certificate

History Teacher Certifications

Admission and Retention Requirements for History Certification

For admission to and retention in Teacher Education in the field of History, students must achieve and sustain a 2.75 GPA in all history coursework. To qualify to take the History (Secondary) TExES examination, students must meet the following criteria:

1. Have at least a 2.5 GPA on all college coursework (lower and upper level).

2. Have a 2.75 GPA on all history coursework (lower and upper level).
3. Be advised by the Content Area Certification Coordinator for History and Social Studies.

Students who fail the certification exam must meet with the content Area Certification Coordinator for History and Social Studies to develop an action plan before re-taking the exam.

Students returning to the University to complete certification must see the History TExES coordinator or designee to receive a deficiency plan. All criteria outlined in the plan must be met before the student will be permitted to take the History TExES.

Students seeking certification must also qualify to take the Professional Development TExES. For information, see the College of Education section of this catalog.

Students seeking teacher certification in history or social studies must take the following courses, in addition to the Core Curriculum Program and all professional development courses. Students who have substituted Texas History for three hours of U.S. History in meeting their core curriculum requirements are still responsible for successfully completing both HIST 1301 and HIST 1302 for History certification. Please see the College of Education for a list of professional development courses.

History (Grades 7-12)

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements**	42
D. Professional Development	24
E. Teacher Certification Requirements	3
F. Foreign Language Requirement	6
G. University Electives	3
	Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

**HIST-4390 may be substituted as a major requirement when the course subject is appropriate to that requirement.

Full-time, first-year student are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Requirements

- HIST 2311 - Western Civilization I **3 sem. hrs.**
- HIST 2312 - Western Civilization II **3 sem. hrs.**
- HIST 3302 - Latin American History **3 sem. hrs.**
- HIST 3331 - Texas History **3 sem. hrs.**
- HIST 4385 - Historical Research and Writing **3 sem. hrs.**
- History Electives (3000-4000 level) **3 sem. hrs.**
- READ 3353 - Content Area Reading for Secondary Students **3 sem. hrs.**

3 hours from:

- HIST 3315 - Europe 1750-1815 **3 sem. hrs.**
- HIST 3317 - Europe 1815-1914 **3 sem. hrs.**
- HIST 3319 - Europe 1914 to the Present **3 sem. hrs.**
- HIST 4340 - European Women's History **3 sem. hrs.**
- HIST 4342 - The Holocaust **3 sem. hrs.**
- HIST 4345 - European Thought and Culture, 1750-present **3 sem. hrs.**

6 hours from:

- HIST 3320 - Colonial and Revolutionary U.S. **3 sem. hrs.**
- HIST 3321 - The Early American Republic **3 sem. hrs.**
- HIST 3323 - Civil War and Reconstruction **3 sem. hrs.**
- HIST 3324 - U.S. Gilded Age and Progressive Era **3 sem. hrs.**
- HIST 3325 - Emergence of Modern U.S. **3 sem. hrs.**
- HIST 3326 - U.S. Since 2nd World War **3 sem. hrs.**
- HIST 3335 - The U.S. Urban Experience **3 sem. hrs.**
- HIST 3345 - American Environmental History **3 sem. hrs.**
- HIST 4320 - U.S. Cultural Experience **3 sem. hrs.**
- HIST 4325 - U.S. Business and Labor History **3 sem. hrs.**
- HIST 4327 - U.S. Modern Popular Culture **3 sem. hrs.**
- HIST 4335 - The Military and United States History **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 4350 - Narratives of World War II in the Pacific **3 sem. hrs.**

3 hours from:

- HIST 3340 - Modern Asia **3 sem. hrs.**
- HIST 4346 - The Search for Modern China: From 1600 to the Present **3 sem. hrs.**

3 hours from:

- HIST 4373 - Mexico: the Colonial Period **3 sem. hrs.**
- HIST 4374 - Mexico: the National Period **3 sem. hrs.**

6 hours from:

- ENGL 4360 - Literature and Gender **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 4340 - European Women's History **3 sem. hrs.**
- MXAS 3301 - Introduction to Mexican American Studies **3 sem. hrs.**
- MXAS 3311 - Mexican American Literature **3 sem. hrs.**
- MXAS 4390 - Topics in Mexican American Studies **3 sem. hrs.**
- POLS 3311 - Women and Politics **3 sem. hrs.**
- SOCI 3312 - Racial and Ethnic Relations **3 sem. hrs.**
- SOCI 3320 - Sociology of Gender **3 sem. hrs.**
- SOCI 3321 - Mexican American Women **3 sem. hrs.**
- SOCI 4312 - Social Class and Inequality **3 sem. hrs.**
- WGST 3301 - Introduction to Women and Gender Studies **3 sem. hrs.**

3 hours from:

- ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.** *
- ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.** *

Note:

*In addition to the required literature course in the Core Curriculum Program

Social Studies (Grades 4-8)

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements**	39
D.	Professional Development	24
E.	Teacher Certification Requirements	18
F.	Foreign Language Requirement	6
		Total 129 (131)

*First Year Seminars

First-Year Seminars or Electives

**HIST 4390 may be substituted as a major requirement when the course subject is appropriate to that requirement.

Full-time, first-year student are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Requirements

- HIST 2311 - Western Civilization I **3 sem. hrs.**
- HIST 2312 - Western Civilization II **3 sem. hrs.**
- GEOG 1300 - World Geography **3 sem. hrs.**
- GEOG 3331 - Geography of North America **3 sem. hrs.**
- ECON 2302 - Microeconomics Principles **3 sem. hrs.** *
- READ 3320 - Principles and Practices of Reading Instruction **3 sem. hrs.**
- READ 3351 - Diagnosis and Correction of Reading Problems **3 sem. hrs.**
- SMTE 1350 - Fundamentals of Mathematics I **3 sem. hrs.**
- SMTE 1351 - Fundamentals of Mathematics II **3 sem. hrs.**
- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.**
- SMTE 3316 - Foundational Approaches to the Life Sciences **3 sem. hrs.**

Note:

*Prerequisites: MATH 1314.

3 hours from:

- HIST 3315 - Europe 1750-1815 **3 sem. hrs.**

- HIST 3317 - Europe 1815-1914 **3 sem. hrs.**
- HIST 3319 - Europe 1914 to the Present **3 sem. hrs.**
- HIST 4340 - European Women's History **3 sem. hrs.**
- HIST 4342 - The Holocaust **3 sem. hrs.**
- HIST 4345 - European Thought and Culture, 1750-present **3 sem. hrs.**

3 hours from:

- HIST 3320 - Colonial and Revolutionary U.S. **3 sem. hrs.**
- HIST 3321 - The Early American Republic **3 sem. hrs.**
- HIST 3323 - Civil War and Reconstruction **3 sem. hrs.**
- HIST 3324 - U.S. Gilded Age and Progressive Era **3 sem. hrs.**
- HIST 3325 - Emergence of Modern U.S. **3 sem. hrs.**
- HIST 3326 - U.S. Since 2nd World War **3 sem. hrs.**
- HIST 3335 - The U.S. Urban Experience **3 sem. hrs.**
- HIST 3345 - American Environmental History **3 sem. hrs.**
- HIST 4320 - U.S. Cultural Experience **3 sem. hrs.**
- HIST 4325 - U.S. Business and Labor History **3 sem. hrs.**
- HIST 4327 - U.S. Modern Popular Culture **3 sem. hrs.**
- HIST 4335 - The Military and United States History **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 3331 - Texas History **3 sem. hrs.**
- HIST 4350 - Narratives of World War II in the Pacific **3 sem. hrs.**

3 hours from:

- HIST 3340 - Modern Asia **3 sem. hrs.**
- HIST 4346 - The Search for Modern China: From 1600 to the Present **3 sem. hrs.**

3 hours from:

- HIST 3302 - Latin American History **3 sem. hrs.**
- HIST 4373 - Mexico: the Colonial Period **3 sem. hrs.**
- HIST 4374 - Mexico: the National Period **3 sem. hrs.**

3 hours from:

- ENGL 4360 - Literature and Gender **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 4340 - European Women's History **3 sem. hrs.**
- MXAS 3301 - Introduction to Mexican American Studies **3 sem. hrs.**
- MXAS 3311 - Mexican American Literature **3 sem. hrs.**
- MXAS 4390 - Topics in Mexican American Studies **3 sem. hrs.**
- POLS 3311 - Women and Politics **3 sem. hrs.**
- POLS 4325 - Politics in Latin America **3 sem. hrs.**
- SOCI 3312 - Racial and Ethnic Relations **3 sem. hrs.**
- SOCI 3320 - Sociology of Gender **3 sem. hrs.**
- SOCI 3321 - Mexican American Women **3 sem. hrs.**
- WGST 3301 - Introduction to Women and Gender Studies **3 sem. hrs.**

3 hours from:

- ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance **3 sem. hrs.**
- ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present **3 sem. hrs.**

3 hours from:

- POLS 3313 - The Legislative Process **3 sem. hrs.**
- POLS 3314 - Public Opinion **3 sem. hrs.**
- POLS 3315 - Political Parties **3 sem. hrs.**
- POLS 3316 - The American Presidency **3 sem. hrs.**

Social Studies (Grades 7-12)

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements**	51
D.	Professional Development	24
E.	Teacher Certification Requirements	3
F.	Foreign Language Requirement	6

Total 126 (128)

*First Year Seminars

First-Year Seminars or Electives

**HIST-4390 may be substituted as a major requirement when the course subject is appropriate to that requirement.

Full-time, first-year student are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Requirements

- HIST 2311 - Western Civilization I **3 sem. hrs.**
- HIST 2312 - Western Civilization II **3 sem. hrs.**
- HIST 3302 - Latin American History **3 sem. hrs.**
- HIST 3331 - Texas History **3 sem. hrs.**
- HIST 4385 - Historical Research and Writing **3 sem. hrs.**
- GEOG 1300 - World Geography **3 sem. hrs.**
- GEOG 3331 - Geography of North America **3 sem. hrs.**
- ECON 2302 - Microeconomics Principles **3 sem. hrs.** *
- READ 3353 - Content Area Reading for Secondary Students **3 sem. hrs.**

Note:

*Prerequisites: MATH 1314.

3 hours from:

- HIST 3315 - Europe 1750-1815 **3 sem. hrs.**
- HIST 3317 - Europe 1815-1914 **3 sem. hrs.**
- HIST 3319 - Europe 1914 to the Present **3 sem. hrs.**
- HIST 4340 - European Women’s History **3 sem. hrs.**
- HIST 4342 - The Holocaust **3 sem. hrs.**
- HIST 4345 - European Thought and Culture, 1750-present **3 sem. hrs.**

3 hours from:

- HIST 3320 - Colonial and Revolutionary U.S. **3 sem. hrs.**
- HIST 3321 - The Early American Republic **3 sem. hrs.**
- HIST 3323 - Civil War and Reconstruction **3 sem. hrs.**
- HIST 3324 - U.S. Gilded Age and Progressive Era **3 sem. hrs.**
- HIST 3325 - Emergence of Modern U.S. **3 sem. hrs.**
- HIST 3326 - U.S. Since 2nd World War **3 sem. hrs.**
- HIST 3335 - The U.S. Urban Experience **3 sem. hrs.**
- HIST 3345 - American Environmental History **3 sem. hrs.**
- HIST 4320 - U.S. Cultural Experience **3 sem. hrs.**
- HIST 4325 - U.S. Business and Labor History **3 sem. hrs.**
- HIST 4327 - U.S. Modern Popular Culture **3 sem. hrs.**
- HIST 4335 - The Military and United States History **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 4350 - Narratives of World War II in the Pacific **3 sem. hrs.**

3 hours from:

- HIST 3340 - Modern Asia **3 sem. hrs.**
- HIST 4346 - The Search for Modern China: From 1600 to the Present **3 sem. hrs.**

3 hours from:

- HIST 4373 - Mexico: the Colonial Period **3 sem. hrs.**
- HIST 4374 - Mexico: the National Period **3 sem. hrs.**

3 hours from:

- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 4340 - European Women’s History **3 sem. hrs.**
- MXAS 3301 - Introduction to Mexican American Studies **3 sem. hrs.**
- MXAS 3311 - Mexican American Literature **3 sem. hrs.**
- MXAS 4390 - Topics in Mexican American Studies **3 sem. hrs.**
- POLS 3311 - Women and Politics **3 sem. hrs.**
- POLS 4325 - Politics in Latin America **3 sem. hrs.**
- ENGL 4360 - Literature and Gender **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.**
- SOCI 3312 - Racial and Ethnic Relations **3 sem. hrs.**
- SOCI 3320 - Sociology of Gender **3 sem. hrs.**

- SOCI 3321 - Mexican American Women **3 sem. hrs.**
- SOCI 4312 - Social Class and Inequality **3 sem. hrs.**

3 hours from:

- POLS 3314 - Public Opinion **3 sem. hrs.**
- POLS 3315 - Political Parties **3 sem. hrs.**

3 hours from:

- POLS 3361 - Western Political Theory **3 sem. hrs.**
- POLS 4361 - American Political Thought **3 sem. hrs.**

3 hours from:

- POLS 3313 - The Legislative Process **3 sem. hrs.**
- POLS 3316 - The American Presidency **3 sem. hrs.**

3 hours from:

- POLS 3321 - Comparative Politics **3 sem. hrs.**
- POLS 3331 - International Relations **3 sem. hrs.**

Spanish Teaching Certification

Admission and Retention Requirements for Spanish Certification

For admission to and retention in Teacher Education in the field of Spanish, students must achieve and sustain a 2.75 GPA in all Spanish coursework. To qualify to take the Spanish (All Level) TExES examination (LOTE-613), students must meet the following criteria:

1. Have at least a 2.5 GPA on all college coursework (lower and upper level).
2. Have a 2.75 GPA on all Spanish coursework (lower and upper level).

3. Have completed one Spanish TExES Review Workshop. This workshop must be taken in the semester prior to the term the student takes the TExES.
4. Provide official permit with approval of Spanish certification coordinator or designee.

Students returning to the University to complete certification must see the Spanish certification coordinator to receive a deficiency plan. All criteria outlined in the plan must be met before the student will be permitted to take the Spanish TExES.

For information on required professional development courses, the Professional Development TExES (PPR-160), and other teacher certification requirements, please see the College of Education section of this catalog. Students should also consult the Certification Office of the College of Education for complete and current information about teacher certification requirements.

Students seeking teacher certification in Spanish must take a minimum of 30 semester hours in Spanish, at least 24 of which must be at the upper-division level.

Degree Requirements

	Semester Hours
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	30
D. Professional Development	24
E. Certification Requirements	3
F. University Electives	13-15
G. Foreign Language Requirement	6
	Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year student are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Requirements

3 hours: *

- SPAN 4327 - Methods in Foreign Language Instruction **3 sem. hrs.**

12 hours from:

- SPAN 3302 - Spanish Composition **3 sem. hrs.**
- SPAN 3303 - Spanish Conversation **3 sem. hrs.**
- SPAN 3311 - Spanish Phonetics **3 sem. hrs.**
- SPAN 3312 - Spanish Grammar **3 sem. hrs.**
- SPAN 4303 - Spanish in the Southwest **3 sem. hrs.**
- SPAN 4320 - Spanish in the Americas **3 sem. hrs.**

15 hours from:

- SPAN 2311 - Spanish III **3 sem. hrs.**
- SPAN 2312 - Spanish IV **3 sem. hrs.**
- SPAN 3302 - Spanish Composition **3 sem. hrs.**
- SPAN 3303 - Spanish Conversation **3 sem. hrs.**
- SPAN 3304 - Spanish Civilization **3 sem. hrs.**
- SPAN 3305 - Spanish American Civilization **3 sem. hrs.**
- SPAN 3307 - Spanish Literature I **3 sem. hrs.**
- SPAN 3308 - Spanish Literature II **3 sem. hrs.**
- SPAN 3309 - Spanish American Literature I **3 sem. hrs.**
- SPAN 3310 - Spanish American Literature II **3 sem. hrs.**
- SPAN 3311 - Spanish Phonetics **3 sem. hrs.**
- SPAN 3312 - Spanish Grammar **3 sem. hrs.**
- SPAN 3315 - Civilizations of the Spanish-speaking World **3 sem. hrs.**
- SPAN 4301 - Spanish Civil War and Literature **3 sem. hrs.**
- SPAN 4302 - Mexican Narrative **3 sem. hrs.**
- SPAN 4303 - Spanish in the Southwest **3 sem. hrs.**
- SPAN 4320 - Spanish in the Americas **3 sem. hrs.**
- SPAN 4390 - Topics in Spanish **3 sem. hrs.**

Note:

*Depending on the upper-level Spanish course, students must demonstrate at least an intermediate level of proficiency before taking 3000 or 4000 courses. Students can do this by taking SPAN 2311 & 2312 or equivalent, or by visiting with Spanish faculty for advice.

**May be repeated when topics vary.

Minor

European Union Studies Minor

The European Union spans from Western Europe to the Baltic Region, Eastern and Central Europe, and to Cyprus. The new Europe manifests itself in different ways—through integrated economic markets, Europe-wide elections, evolving political institutions, and emerging European identity. It is significant due to its increasing global importance as well as the special character of its relationship with the US. The minor in European Union Studies seeks to equip students with the analytical tools to deal with the making and operation of the European Union. The European Union Studies minor is designed to give students an opportunity to gain multi-disciplinary expertise, as well as practical hands-on experience, in EU related affairs through coursework and research opportunities.

Students who select this minor must consult with and have approval of the Political Science adviser to establish a plan of study. This should be done prior to completing 6 hours of coursework listed for the program. The program form must be filed with an academic advisor in the College of Liberal Arts and certified upon application for graduation by the Dean of the College in which the major study degree will be awarded.

Required Courses:

- POLS 3321 - Comparative Politics **3 sem. hrs.**
- POLS 3331 - International Relations **3 sem. hrs.**
- POLS 4320 - The Politics of the European Union **3 sem. hrs.**
- ECON 2302 - Microeconomics Principles **3 sem. hrs.**
- ECON 3315 - International Economic Issues **3 sem. hrs.**
- ECON 4325 - Economics of European Integration **3 sem. hrs.**

History Minor

Lower Division

- * HIST 1301 - U.S. History to 1865 **3 sem. hrs.**
- * HIST 1302 - U.S. History Since 1865 **3 sem. hrs.**
- HIST 2311 - Western Civilization I **3 sem. hrs.**
- HIST 2312 - Western Civilization II **3 sem. hrs.**

6 hours from:

- HIST 3302 - Latin American History **3 sem. hrs.**
- HIST 3315 - Europe 1750-1815 **3 sem. hrs.**
- HIST 3317 - Europe 1815-1914 **3 sem. hrs.**
- HIST 3319 - Europe 1914 to the Present **3 sem. hrs.**
- HIST 3340 - Modern Asia **3 sem. hrs.**
- HIST 4340 - European Women's History **3 sem. hrs.**
- HIST 4342 - The Holocaust **3 sem. hrs.**

- HIST 4345 - European Thought and Culture, 1750-present **3 sem. hrs.**
- HIST 4346 - The Search for Modern China: From 1600 to the Present **3 sem. hrs.**
- HIST 4373 - Mexico: the Colonial Period **3 sem. hrs.**
- HIST 4374 - Mexico: the National Period **3 sem. hrs.**

6 hours from:

- HIST 3320 - Colonial and Revolutionary U.S. **3 sem. hrs.**
- HIST 3321 - The Early American Republic **3 sem. hrs.**
- HIST 3323 - Civil War and Reconstruction **3 sem. hrs.**
- HIST 3324 - U.S. Gilded Age and Progressive Era **3 sem. hrs.**
- HIST 3325 - Emergence of Modern U.S. **3 sem. hrs.**
- HIST 3326 - U.S. Since 2nd World War **3 sem. hrs.**
- HIST 3331 - Texas History **3 sem. hrs.**
- HIST 3335 - The U.S. Urban Experience **3 sem. hrs.**
- HIST 3345 - American Environmental History **3 sem. hrs.**
- HIST 4320 - U.S. Cultural Experience **3 sem. hrs.**
- HIST 4327 - U.S. Modern Popular Culture **3 sem. hrs.**
- HIST 4335 - The Military and United States History **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 4350 - Narratives of World War II in the Pacific **3 sem. hrs.**

Note:

*Included in the Core Curriculum Program

Latin American Studies Minor

This interdisciplinary minor invites students to study the history, politics, languages, cultures, and economics of Latin America. Such a course of study can benefit a range of majors from Business, Education, the Social Sciences, and the Humanities. Course work must include Spanish beyond the 6 hour College of Liberal Arts Second Language requirement or the equivalent*.

A minimum of 15 semester hours selected from among the following courses in at least two disciplines is required for the minor:

Art

- ARTS 4350 - Pre-Columbian Art of Mesoamerica **3 sem. hrs.**
- ARTS 4352 - Modern Art of Mexico **3 sem. hrs.**

Business

- FINA 4315 - International Finance **3 sem. hrs.**
- MGMT 4315 - Multinational Management **3 sem. hrs.**
- MKTG 4340 - International Marketing. **3 sem. hrs.**

English

- ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.**

History

- HIST 3302 - Latin American History **3 sem. hrs.**
- HIST 4373 - Mexico: the Colonial Period **3 sem. hrs.**
- HIST 4374 - Mexico: the National Period **3 sem. hrs.**

Political Science

- POLS 4325 - Politics in Latin America **3 sem. hrs.**

Spanish**

- SPAN 3305 - Spanish American Civilization **3 sem. hrs.**
- SPAN 3309 - Spanish American Literature I **3 sem. hrs.**
- SPAN 3310 - Spanish American Literature II **3 sem. hrs.**
- SPAN 3315 - Civilizations of the Spanish-speaking World **3 sem. hrs.**
- SPAN 4302 - Mexican Narrative **3 sem. hrs.**
- SPAN 4320 - Spanish in the Americas **3 sem. hrs.**

Note:

* This requirement can be satisfied through an equivalency test. See Spanish section of the catalog for details.

** All courses are taught in Spanish.

Mexican American Studies Minor

Mexican American Studies (also known as Chicano Studies) is a multi-disciplinary concentration that will expose students to a wide range of topics relevant to the Mexican-American experience. This course of study will offer students valuable insights and skills to complement most majors in Nursing, Business, Education, Social Sciences, Arts, and Humanities.

Minor

The Mexican American Studies Minor requires a minimum of 18 hours of designated coursework. Students who select this minor must consult with and have approval of the Mexican American Studies Coordinator or the Academic Advisor to establish a degree plan. This should be done prior to completing 6 semester hours of coursework listed for the program.

Students may choose from the following courses. All courses are taught in English except for SPAN.

Introduction: Required of all students

- MXAS 3301 - Introduction to Mexican American Studies **3 sem. hrs.**

Cultural/Historical: Six hours are required from this component.

- ARTS 4350 - Pre-Columbian Art of Mesoamerica **3 sem. hrs.**
- ARTS 4352 - Modern Art of Mexico **3 sem. hrs.**
- HIST 3302 - Latin American History **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 4373 - Mexico: the Colonial Period **3 sem. hrs.**
- HIST 4374 - Mexico: the National Period **3 sem. hrs.**
- SPAN 3304 - Spanish Civilization **3 sem. hrs.**
- SPAN 3305 - Spanish American Civilization **3 sem. hrs.**
- SPAN 3315 - Civilizations of the Spanish-speaking World **3 sem. hrs.**
- MXAS 3307 - Mexican American Folklore **3 sem. hrs.**

Linguistic/Literary: Six hours are required from this component.

- ENGL 3366 - Language in Society **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.** *
- SPAN 2311 - Spanish III **3 sem. hrs.**
- SPAN 2312 - Spanish IV **3 sem. hrs.**
- SPAN 3302 - Spanish Composition **3 sem. hrs.**
- SPAN 3303 - Spanish Conversation **3 sem. hrs.**

- SPAN 3307 - Spanish Literature I **3 sem. hrs.**
- SPAN 3308 - Spanish Literature II **3 sem. hrs.**
- SPAN 3309 - Spanish American Literature I **3 sem. hrs.**
- SPAN 3310 - Spanish American Literature II **3 sem. hrs.**
- SPAN 4301 - Spanish Civil War and Literature **3 sem. hrs.**
- SPAN 4302 - Mexican Narrative **3 sem. hrs.**
- SPAN 4303 - Spanish in the Southwest **3 sem. hrs.**
- SPAN 4320 - Spanish in the Americas **3 sem. hrs.**
- MXAS 3311 - Mexican American Literature **3 sem. hrs.**

Political/Social Science: Three hours are required from this component.

- COMM 4345 - Intercultural Communication **3 sem. hrs.** **
- POLS 4315 - Mexican American Politics **3 sem. hrs.**
- POLS 4325 - Politics in Latin America **3 sem. hrs.**
- PSYC 4332 - Cross-cultural Psychology **3 sem. hrs.**
- SOCI 3321 - Mexican American Women **3 sem. hrs.**

Note:

Topics (4390) courses can be taken in any participating discipline as electives when the topics are appropriate and approved by the program coordinator.

*ENGL 4361 will count when the topic is appropriate and approved by the program advisor.

**Requires COMM 1370.

Philosophy Minor

The philosophy minor requires a minimum of 18 semester hours of philosophy course work. At least 12 of those hours must be at the upper-division level. The courses required for the minor are listed below.

6 hours from Basic Philosophy Courses

- PHIL 1301 - Introduction to Philosophy **3 sem. hrs.**
- PHIL 2303 - Introduction to Logic and Critical Thinking **3 sem. hrs.**

3 hours from History of Philosophy or Metaphysics and Epistemology

- PHIL 3306 - History of Eastern Philosophy I **3 sem. hrs.**
- PHIL 3307 - History of Eastern Philosophy II **3 sem. hrs.**
- PHIL 3327 - American Philosophy **3 sem. hrs.**
- PHIL 4303 - Minds and Machines **3 sem. hrs.**
- PHIL 4304 - Metaphysics **3 sem. hrs.**
- PHIL 4305 - Epistemology **3 sem. hrs.**
- PHIL 4321 - Ancient Philosophy **3 sem. hrs.**
- PHIL 4322 - Modern Philosophy **3 sem. hrs.**
- PHIL 4323 - Contemporary Philosophy **3 sem. hrs.**
- PHIL 4330 - Philosophy and History of Science and Technology **3 sem. hrs.**
- PHIL 4331 - Issues in Philosophy of Religion **3 sem. hrs.**

3 hours from Values and Society

- PHIL 3342 - Philosophy of Love and Sex **3 sem. hrs.**
- PHIL 3343 - Philosophy of Law **3 sem. hrs.**
- PHIL 3344 - Social and Political Philosophy **3 sem. hrs.**
- PHIL 3345 - The Meaning of Life **3 sem. hrs.**
- PHIL 3348 - Ethics, War, and Terrorism **3 sem. hrs.**
- PHIL 4332 - Moral Issues in Contemporary Medicine **3 sem. hrs.**
- PHIL 4333 - Environmental Ethics **3 sem. hrs.**
- PHIL 4335 - Moral Philosophy **3 sem. hrs.**

6 hours from Prescribed Electives; students may select (a) courses from the list below, or (b) any other upper-level philosophy courses except PHIL 2306 that they are not using to satisfy the requirements of the groups listed above.

- PHIL 3346 - Elementary Formal Logic **3 sem. hrs.**
- PHIL 3347 - Philosophy and Science Fiction **3 sem. hrs.**
- PHIL 4336 - Advanced Seminar in Philosophy **3 sem. hrs.**
- PHIL 4337 - Philosophy of Language **3 sem. hrs.**
- PHIL 4390 - Topics in Philosophy **3 sem. hrs.**
- PHIL 4396 - Directed Individual Study **1-3 sem. hrs.**

Students are encouraged to take PHIL 1301 and PHIL 2303 as early as possible in their pursuit of the minor.

* Included in the Core Curriculum Program

Religious Studies Minor

Religious Studies

Religion plays a central role in today's world, exerting a profound influence on individuals, communities, and cultures as well as on politics, public policy, and international relations. As a result, the academic study of religion - deep knowledge of the world's religious traditions, of how religion shapes social and political systems and motivates groups and individuals - is more important now than ever before. The interdisciplinary minor in Religious Studies fosters such an understanding of religious beliefs, practices, and systems, one that enables students to engage the world and its complex, often mysterious religious traditions in an informed and responsible way. In addition, it introduces students to great thinkers, artists, poets, fascinating religious figures, and the enduring questions that have long been central to the liberal arts.

Minor in Religious Studies

The minor in Religious Studies is non-sectarian and interdisciplinary. It seeks to understand religious people, groups, systems, and institutions, not to prove or disprove them; to foster appreciation of religious diversity, not challenge or affirm any particular tradition's claim to truth. It draws on the methods of history, psychology, literary criticism, philosophy, anthropology, and social science to achieve a multi-faceted approach to the discipline. It also equips students with the critical thinking and writing skills expected of a liberal arts education.

Students who select this minor must consult with and have approval of the Religious Studies advisor to establish a plan of study. This should be done prior to completing 6 semester hours of course work listed for the program. The program form must be filed with an academic advisor in the College of Liberal Arts and certified upon application for graduation by the Dean of the College in which the major study degree will be awarded.

The Religious Studies minor requires a minimum of 18 upper-division hours of designated course work.

The following course is required of all Religious Studies minors:

- RELS 3301 - History of World Religions **3 sem. hrs.**

In addition, students must take 15 semester hours of approved Religious Studies electives. Choose five courses from the following list:

- ANTH 3301 - Cultural Anthropology **3 sem. hrs.**
- ANTH 3370 - Native Americans in North America **3 sem. hrs.**
- ARTS 4350 - Pre-Columbian Art of Mesoamerica **3 sem. hrs.**
- ARTS 4352 - Modern Art of Mexico **3 sem. hrs.**
- ENGL 3320 - The Bible as Literature **3 sem. hrs.**
- HIST 4390 - Topics in History **3 sem. hrs.** *
- PHIL 3306 - History of Eastern Philosophy I **3 sem. hrs.**
- PHIL 3307 - History of Eastern Philosophy II **3 sem. hrs.**
- PHIL 4331 - Issues in Philosophy of Religion **3 sem. hrs.**
- PHIL 4390 - Topics in Philosophy **3 sem. hrs.** *
- POLS 4390 - Topics in Political Science **3 sem. hrs.** *

- PSYC 3370 - Psychology of Religion **3 sem. hrs.**
- RELS 4396 - Directed Individual Study **1-3 sem. hrs.**
- SOCI 4390 - Topics in Sociology **3 sem. hrs.** *

Note:

* Topics courses (4390) are limited to those approved by the program advisor as appropriate.

Spanish Minor

Students planning to minor in Spanish must complete 18 semester hours in Spanish or Spanish related areas, at least 6 of which must be at the upper-division level. Students are required to take the following courses:

12 hours from: *

- SPAN 3302 - Spanish Composition **3 sem. hrs.**
- SPAN 3303 - Spanish Conversation **3 sem. hrs.**
- SPAN 3304 - Spanish Civilization **3 sem. hrs.**
- SPAN 3305 - Spanish American Civilization **3 sem. hrs.**
- SPAN 3307 - Spanish Literature I **3 sem. hrs.**
- SPAN 3308 - Spanish Literature II **3 sem. hrs.**
- SPAN 3309 - Spanish American Literature I **3 sem. hrs.**
- SPAN 3310 - Spanish American Literature II **3 sem. hrs.**
- SPAN 3311 - Spanish Phonetics **3 sem. hrs.**
- SPAN 3312 - Spanish Grammar **3 sem. hrs.**
- SPAN 3315 - Civilizations of the Spanish-speaking World **3 sem. hrs.**
- SPAN 4301 - Spanish Civil War and Literature **3 sem. hrs.**
- SPAN 4302 - Mexican Narrative **3 sem. hrs.**
- SPAN 4303 - Spanish in the Southwest **3 sem. hrs.**
- SPAN 4320 - Spanish in the Americas **3 sem. hrs.**
- SPAN 4327 - Methods in Foreign Language Instruction **3 sem. hrs.**
- SPAN 4390 - Topics in Spanish **3 sem. hrs.** **

6 hours from:

- SPAN 2000, 3000, 4000 courses 6 sem. hrs.
- ARTS 4350 - Pre-Columbian Art of Mesoamerica **3 sem. hrs.**
- ARTS 4352 - Modern Art of Mexico **3 sem. hrs.**
- ENGL 2335 - Themes and Genres in the Literatures of the Americas **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.**
- HIST 3302 - Latin American History **3 sem. hrs.**

- HIST 4336 - Mexican American History **3 sem. hrs.**
- HIST 4337 - United States Women's History **3 sem. hrs.**
- HIST 4373 - Mexico: the Colonial Period **3 sem. hrs.**
- HIST 4374 - Mexico: the National Period **3 sem. hrs.**
- MXAS 3301 - Introduction to Mexican American Studies **3 sem. hrs.**
- MXAS 3311 - Mexican American Literature **3 sem. hrs.**
- MXAS 4390 - Topics in Mexican American Studies **3 sem. hrs.**
- POLS 4315 - Mexican American Politics **3 sem. hrs.**
- POLS 4325 - Politics in Latin America **3 sem. hrs.**
- SOCI 3321 - Mexican American Women **3 sem. hrs.**

Note:

*Depending on the upper-level Spanish course, students must demonstrate at least an intermediate level of proficiency before taking 3000 or 4000 courses. Students can do this by taking SPAN 2311 & 2312 or equivalent, or by visiting with Spanish faculty for advice.

**May be repeated when topics vary.

Music

Bachelor of Arts

Music, BA

Bachelor of Arts in Music

The Bachelor of Arts in Music is a desirable degree for those who wish to study music within a traditional liberal arts framework. The degree is appropriate for students who wish to engage in studies in arts management and marketing, music technology, musicology, and other academic music areas, or as instructors in private non-academic music studios.

Student Learning Outcomes

Students will:

- have knowledge of music theory, history, literature, and culture
- be able to apply their knowledge through singing or performing on a musical instrument
- be able to apply critical thinking skills when hearing musical sounds

Specific Degree Requirements

All music majors must meet all general University and College graduation requirements, including Computer Literacy and First Year Seminars, regardless of the following specific degree requirements, unless specifically excused. All music degrees require MUSI 1307 - Elements of Musical Style, which also meets the Core Curriculum Program Fine Arts requirement. No music coursework with a grade lower than "C" will be counted toward the completion of the Bachelor of Arts in Music, the Bachelor of Music with Teacher Certification, or the Bachelor of Music in Performance.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	52
D. Undesignated Upper-Division Electives	20
E. Foreign Language Requirements	6
	Total 120 (122)

*First-Year Seminars

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Note:

Transfer students with 24 or more hours are exempt from First-Year Seminar.

Requirements

- MUSI 1311 - Musicianship I **3 sem. hrs.**
- MUSI 1312 - Musicianship II **3 sem. hrs.**
- MUSI 2311 - Musicianship III **3 sem. hrs.**
- MUSI 2312 - Musicianship IV **3 sem. hrs.**
- MUSI 1116 - Aural Training I **1 sem. hrs.**
- MUSI 1117 - Aural Training II **1 sem. hrs.**
- MUSI 2116 - Aural Training III **1 sem. hrs.**
- MUSI 2117 - Aural Training IV **1 sem. hrs.**
- MUSI 1181 - Class Piano I **1 sem. hrs.** *
- MUSI 1182 - Class Piano II **1 sem. hrs.** *
- MUSI 2181 - Class Piano III **1 sem. hrs.**

- MUSI 2182 - Class Piano IV **1 sem. hrs.**
- MUSI 3346 - Form and Analysis of Tonal Music **3 sem. hrs.**
- MUSI 1307 - Elements of Musical Style **3 sem. hrs.**
- MUSI 4334 - History of Western Music I **3 sem. hrs.**
- MUSI 4335 - History of Western Music II **3 sem. hrs.**
- MUSI 3253 - Basic Conducting **2 sem. hrs.**
- MUSI 4385 - Senior Capstone **3 sem. hrs.**

Note:

*Students with adequate keyboard skills may substitute Secondary Piano Studio courses for Class Piano I-IV with permission of the Music Department Chair.

Appropriate 6-semester sequence (8 hrs.) of

- Principal Applied Studio courses in one performance area.

Minimum of 4 hrs. of appropriate large ensemble

- MUEN 1123 - Symphonic Winds **1 sem. hrs.**
- MUEN 1124 - Concert Orchestra **1 sem. hrs.**
- MUEN 1151 - University Singers **1 sem. hrs.**

Minimum of 6 hrs. of

- Upper-division music electives

Music Credits Required for the Bachelor of Arts in Music: 52 hrs.

Total Minimum Requirement for the Bachelor of Arts in Music: 120 hrs.

Bachelor of Music

Music, BM with EC-12 Teacher Certification

Bachelor of Music with Teacher Certification

This is the appropriate professional degree for students who seek careers in elementary and/or secondary music education. Degree tracks in vocal/general and instrumental music are available. This degree leads to Texas EC-12 teacher certification in music.

The Bachelor of Music with Teacher Certification curriculum has been designed to insure reasonable competence in all graduates, but it is rigorous and time consuming. Although the program can be completed in 9 regular semesters, it requires very heavy course loads to do so. Students whose personal learning styles do not respond well to such pressure, or those who must continue partial employment, should consider attending several summer sessions and/or extending their programs to 10 full semesters. In all cases, however, students are strongly urged to consult with the Music Department Chair or their assigned faculty advisor prior to beginning the program and frequently throughout.

All students seeking the Bachelor of Music with Teacher Certification degree must complete a 122 hr. set of Common Requirements consisting of the Core Curriculum Program (42 hrs.), Common Musicianship coursework (40 hrs.), Common Pedagogy Core (10 hrs.), and Professional Development (27 hrs.). In addition, a 10 hr. Track Specific Techniques Block must be completed.

Student Learning Outcomes

Student will:

- be able to assess and critique student performances
- have knowledge of music theory, history, literature, and culture
- be able to structure and apply appropriate music pedagogy to form effective instruction in classrooms or ensembles

Specific Degree Requirements

All music majors must meet all general University and College graduation requirements, including Computer Literacy and First Year Seminars, regardless of the following specific degree requirements, unless specifically excused. All music degrees require MUSI 1307 - Elements of Musical Style, which also meets the Core Curriculum Program Fine Arts requirement. No music coursework with a grade lower than "C" will be counted toward the completion of the Bachelor of Arts in Music, the Bachelor of Music with Teacher Certification, or the Bachelor of Music in Performance.

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements	60
D.	Professional Development	24
E.	Teacher Certification Requirements	3
		Total 129 (131)

*First-Year Seminars

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Teacher Certification Common Music Core

- MUSI 1311 - Musicianship I **3 sem. hrs.**
- MUSI 1312 - Musicianship II **3 sem. hrs.**
- MUSI 2311 - Musicianship III **3 sem. hrs.**
- MUSI 2312 - Musicianship IV **3 sem. hrs.**
- MUSI 1116 - Aural Training I **1 sem. hrs.**
- MUSI 1117 - Aural Training II **1 sem. hrs.**
- MUSI 2116 - Aural Training III **1 sem. hrs.**
- MUSI 2117 - Aural Training IV **1 sem. hrs.**
- MUSI 1181 - Class Piano I **1 sem. hrs.** *
- MUSI 1182 - Class Piano II **1 sem. hrs.** *
- MUSI 2181 - Class Piano III **1 sem. hrs.** *
- MUSI 2182 - Class Piano IV **1 sem. hrs.** *
- MUSI 3346 - Form and Analysis of Tonal Music **3 sem. hrs.**
- MUSI 1307 - Elements of Musical Style **3 sem. hrs.**
- MUSI 4334 - History of Western Music I **3 sem. hrs.**
- MUSI 4335 - History of Western Music II **3 sem. hrs.**
- MUSI 4085 - Senior Recital **0 sem. hrs.**

Appropriate 6-semester sequence (8 hrs.) of

- Principal Applied Studio courses in one performance area.

Minimum of 4 hrs. of appropriate large ensemble

- MUEN 1123 - Symphonic Winds **1 sem. hrs.**
- MUEN 1124 - Concert Orchestra **1 sem. hrs.**
- MUEN 1151 - University Singers **1 sem. hrs.**

Note:

*Students with adequate keyboard skills may substitute Secondary Piano Studio courses for Class Piano I-IV with permission of the Music Department Chair.

Total Teacher Certification Music Core: 41 hrs.

Teacher Certification Common Pedagogy Core

- MUSI 3252 - Foundations of Music Programs **2 sem. hrs.**
- MUSI 3253 - Basic Conducting **2 sem. hrs.**
- MUSI 3354 - Advanced Conducting **3 sem. hrs.**
- MUSI 4355 - Music for Young Children **3 sem. hrs.**

Total Teacher Certification Common Pedagogy Core: 10 hrs.

Professional Development Coursework

For more information on required professional development courses, the Professional Development TExES (PPR-160), and other teacher certification requirements, please see the College of Education section of this catalog. Students should also consult the Certification Office of the College of Education for complete and current information about teacher certification requirements.

Track-Specific Techniques Block: Vocal/General

- MUSI 31xx - Secondary Guitar Studio **1 sem. hrs.**

- MUSI 3166 - Woodwind Techniques I **1 sem. hrs.** OR
- MUSI 3167 - Woodwind Techniques II **1 sem. hrs.**

- MUSI 3168 - Brass Techniques I **1 sem. hrs.** OR
- MUSI 3169 - Brass Techniques II **1 sem. hrs.**

- MUSI 3188 - Percussion Techniques **1 sem. hrs.**
- MUSI 3162 - Diction for Singers I **1 sem. hrs.**
- MUSI 3165 - Diction for Singers II **1 sem. hrs.**
- MUSI 4357 - Choral Literature and Techniques **3 sem. hrs.**

Total Vocal/General Track-Specific Techniques Block: 9 hrs.

Total Music Teacher Certification, Vocal/General Track: 129 hrs.

Track-Specific Techniques Block: Instrumental*

- MUSI 3166 - Woodwind Techniques I **1 sem. hrs.**
- MUSI 3167 - Woodwind Techniques II **1 sem. hrs.**
- MUSI 3168 - Brass Techniques I **1 sem. hrs.**
- MUSI 3169 - Brass Techniques II **1 sem. hrs.**
- MUSI 3170 - Voice Techniques for Instrumentalists **1 sem. hrs.**
- MUSI 3188 - Percussion Techniques **1 sem. hrs.**
- MUSI 3189 - String Techniques **1 sem. hrs.**
- MUSI 4358 - Instrumental Literature and Techniques **3 sem. hrs.**

Note:

*Students are NOT required to take the instrumental techniques course that includes their own major instrument.

Total Instrumental Track-Specific Techniques Block: 9 hrs.

Total Music Teacher Certification, Instrumental Track: 129 hrs.

Other Certification Requirements

For more information on teacher certification requirements, see the College of Education section of this catalog. Students should also consult the Certification Office of the College of Education for complete and current information about teacher certification requirements.

Upon satisfactory completion of all subject field and professional development courses, a student may register for the subject field certification examination, called TExES (Texas Examinations of Educator Standards). A student wishing to take the TExES prior to program completion must satisfy the following:

1. Make pre-specified acceptable scores on TExES practice tests, or departmental equivalent, and participate in practice test review and analysis session.
2. Provide official permit with signature of Department Chair or designated person for each teaching field on the student's certification plan.

Students must also qualify to take the Professional Development TExES.

Performance (Instrumental), BM

Bachelor of Music in Performance

This degree is intended for students whose skills and interest in the performance of music are focused at the professional level. Those who elect this option must be aware that ultimate success in performance careers normally involves further study beyond the bachelor's degree, as well as a growing accumulation of actual performance experience.

Student Learning Outcomes

Students will:

- gain knowledge of music theory, history, literature, and culture
- acquire skills necessary to perform, conduct, and/or compose music from various periods and genres
- acquire knowledge of performance literature appropriate to their medium

Specific Degree Requirements

All music majors must meet all general University and College graduation requirements, including Computer Literacy and First Year Seminars, regardless of the following specific degree requirements, unless specifically excused. All music degrees require MUSI 1307 - Elements of Musical Style, which also meets the Core Curriculum Program Fine Arts requirement. No music coursework with a grade lower than "C" will be counted toward the completion of the Bachelor of Arts in Music, the Bachelor of Music with Teacher Certification, or the Bachelor of Music in Performance.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	78
	Total 120 (122)

*Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Note:

Transfer students with 24 or more hours are exempt from First-Year Seminar.

Requirements

- MUSI 1311 - Musicianship I **3 sem. hrs.**
- MUSI 1312 - Musicianship II **3 sem. hrs.**
- MUSI 2311 - Musicianship III **3 sem. hrs.**
- MUSI 2312 - Musicianship IV **3 sem. hrs.**
- MUSI 1116 - Aural Training I **1 sem. hrs.**
- MUSI 1117 - Aural Training II **1 sem. hrs.**
- MUSI 2116 - Aural Training III **1 sem. hrs.**
- MUSI 2117 - Aural Training IV **1 sem. hrs.**
- MUSI 1181 - Class Piano I **1 sem. hrs.** *
- MUSI 1182 - Class Piano II **1 sem. hrs.** *
- MUSI 2181 - Class Piano III **1 sem. hrs.** *
- MUSI 2182 - Class Piano IV **1 sem. hrs.** *
- MUSI 3346 - Form and Analysis of Tonal Music **3 sem. hrs.**

- MUSI 4346 - Orchestration and Arranging **3 sem. hrs.** OR
- MUSI 3345 - Composition **3 sem. hrs.**

- MUSI 1307 - Elements of Musical Style **3 sem. hrs.**
- MUSI 4334 - History of Western Music I **3 sem. hrs.**
- MUSI 4335 - History of Western Music II **3 sem. hrs.**
- MUSI 3253 - Basic Conducting **2 sem. hrs.**
- MUSI 4340 - Studies in Repertoire **3 sem. hrs.**
- MUSI 4360 - Studies in Pedagogy **3 sem. hrs.**
- MUSI 3085 - Junior Recital **0 sem. hrs.**
- MUSI 4085 - Senior Recital **0 sem. hrs.**
- Appropriate 8-semester sequence of Principal Applied Studio courses in one performance area (**20 sem. hrs**.).

Note:

*Students with adequate keyboard skills may substitute Secondary Piano Studio courses for Class Piano I-IV with permission of the Music Department Chair.

Minimum of 8 hrs. of appropriate large ensemble

- MUEN 1123 - Symphonic Winds **1 sem. hrs.**
- MUEN 1124 - Concert Orchestra **1 sem. hrs.**
- MUEN 1151 - University Singers **1 sem. hrs.**

Upper-Division music electives 10 hrs.

Total Music Coursework: 78 hrs.

Total Core Curriculum Program: 42 hrs.

Total Minimum Requirements for the Bachelor of Music in Performance (Instrumental): 120 hrs.

Performance (Voice), BM

Bachelor of Music in Performance

This degree is intended for students whose skills and interest in the performance of music are focused at the professional level. Those who elect this option must be aware that ultimate success in performance careers normally involves further study beyond the bachelor's degree, as well as a growing accumulation of actual performance experience.

Student Learning Outcomes

Students will:

- gain knowledge of music theory, history, literature, and culture
- acquire skills necessary to perform, conduct, and/or compose music from various periods and genres
- acquire knowledge of performance literature appropriate to their medium

Specific Degree Requirements

All music majors must meet all general University and College graduation requirements, including Computer Literacy and First Year Seminars, regardless of the following specific degree requirements, unless specifically excused. All music degrees require MUSI 1307 - Elements of Musical Style, which also meets the Core Curriculum Program Fine Arts requirement. No music coursework with a grade lower than "C" will be counted toward the completion of the Bachelor of Arts in Music, the Bachelor of Music with Teacher Certification, or the Bachelor of Music in Performance.

Degree Requirements

Sem. Hrs.

A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Major Requirements	78
D.	Foreign Language Requirements	6
		Total 126 (128)

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Note:

Transfer students with 24 or more hours are exempt from First-Year Seminar.

Requirements

- MUSI 3162 - Diction for Singers I **1 sem. hrs.**
- MUSI 3165 - Diction for Singers II **1 sem. hrs.**
- MUSI 1311 - Musicianship I **3 sem. hrs.**
- MUSI 1312 - Musicianship II **3 sem. hrs.**
- MUSI 2311 - Musicianship III **3 sem. hrs.**
- MUSI 2312 - Musicianship IV **3 sem. hrs.**
- MUSI 1116 - Aural Training I **1 sem. hrs.**
- MUSI 1117 - Aural Training II **1 sem. hrs.**
- MUSI 2116 - Aural Training III **1 sem. hrs.**
- MUSI 2117 - Aural Training IV **1 sem. hrs.**
- MUSI 1181 - Class Piano I **1 sem. hrs.** *
- MUSI 1182 - Class Piano II **1 sem. hrs.** *
- MUSI 2181 - Class Piano III **1 sem. hrs.** *
- MUSI 2182 - Class Piano IV **1 sem. hrs.** *
- MUSI 3346 - Form and Analysis of Tonal Music **3 sem. hrs.**

- MUSI 4346 - Orchestration and Arranging **3 sem. hrs.** OR
- MUSI 3345 - Composition **3 sem. hrs.**

- MUSI 1307 - Elements of Musical Style **3 sem. hrs.**
- MUSI 4334 - History of Western Music I **3 sem. hrs.**
- MUSI 4335 - History of Western Music II **3 sem. hrs.**
- MUSI 3253 - Basic Conducting **2 sem. hrs.**
- MUSI 4340 - Studies in Repertoire **3 sem. hrs.**
- MUSI 4360 - Studies in Pedagogy **3 sem. hrs.**

- MUSI 3085 - Junior Recital **0 sem. hrs.**
- MUSI 4085 - Senior Recital **0 sem. hrs.**
- Appropriate 8-semester sequence of Principal Applied Studio courses in one performance area (**20 sem. hrs.**).

Note:

*Students with adequate keyboard skills may substitute Secondary Piano Studio courses for Class Piano I-IV with permission of the Music Department Chair.

Minimum of 8 hrs. of appropriate large ensemble

- MUEN 1123 - Symphonic Winds **1 sem. hrs.**
- MUEN 1124 - Concert Orchestra **1 sem. hrs.**
- MUEN 1151 - University Singers **1 sem. hrs.**

Upper-Division music electives 8 hrs.

Total Music Coursework: 78 hrs.

Total Core and Language: 48 hrs.

Total Minimum Requirements for Bachelor of Music in Performance (Vocal): 126 hrs.

Minor

Music Industry Minor

The minor in music industry is designed to provide students with the basic specialized skills required for post-graduate employment opportunities in arts marketing and management, studio technology, and audio recording. Students will have hands-on opportunities to work with up-to-date software packages used in music industry. Finally, students will have a significant opportunity to undertake an independent practical project within a chosen area of the music industry.

Requirements for this minor are:

- MIND 3311 - Applications of Music Technology **3 sem. hrs.**
- MIND 3312 - Recording Techniques I **3 sem. hrs.**
- MIND 3313 - Recording Techniques II **3 sem. hrs.**
- MIND 3320 - Music Business Survey **3 sem. hrs.**
- MIND 3321 - Music Business II **3 sem. hrs.**
- MIND 4396 - Directed Individual Study **1-3 sem. hrs.**
- MIND 4398 - Applied Experience **3 sem. hrs.**

Music Minor

Students wishing to minor in music should possess a certain degree of musical competence, including the ability to read music and perform as a vocalist or on an instrument at an intermediate level. Students are encouraged to discuss their plans to pursue a music minor with an advisor within the Music Department or the academic advisor prior to enrolling in music coursework. The course of study leading to the minor is comprised of 21-22 semester credit hours from the following courses.

Requirements

- MUSI 1311 - Musicianship I **3 sem. hrs.**
- MUSI 1312 - Musicianship II **3 sem. hrs.**
- MUSI 1116 - Aural Training I **1 sem. hrs.**
- MUSI 1117 - Aural Training II **1 sem. hrs.**
- MUAP 1XXX or higher - Secondary Applied Studio (two semesters)
- MUAP 2XXX or higher - Secondary Applied Studio (two semesters)

- MUEN 1123 - Symphonic Winds **1 sem. hrs.** OR
- MUEN 1124 - Concert Orchestra **1 sem. hrs.** OR
- MUEN 1151 - University Singers **1 sem. hrs.**

Choose two from the following:

- MUSI 3253 - Basic Conducting **2 sem. hrs.**
- MUSI 3310 - History of Jazz **3 sem. hrs.**
- MIND 3311 - Applications of Music Technology **3 sem. hrs.**
- MIND 3312 - Recording Techniques I **3 sem. hrs.**
- MIND 3313 - Recording Techniques II **3 sem. hrs.**
- MIND 3320 - Music Business Survey **3 sem. hrs.**
- MIND 3321 - Music Business II **3 sem. hrs.**
- MUSI 4334 - History of Western Music I **3 sem. hrs.**

Psychology and Sociology

Bachelor of Arts

Psychology, BA

Mission

In keeping with the University's mission, the Psychology discipline is devoted to discovering, communicating, and applying knowledge in a complex and changing world. The specific mission of the undergraduate program is three-fold: to provide a basic education within the field of psychology as a foundation for graduate work in a professional field of psychology, such as clinical or counseling psychology, cognitive psychology, social psychology, or developmental psychology; to provide disciplinary knowledge through a broadly-based curriculum which can be applied to related careers such as human services, business, communications, and research; and to contribute to the education of students majoring in other areas of study.

Student Learning Outcomes

- Knowledge Base of Psychology
  Students will demonstrate understanding of the concepts, theoretical perspectives, empirical findings, and historical trends in psychology.

- Research Methods in Psychology
  Students will understand and apply research methods in psychology, including research design, data analysis, and interpretation.

- Critical Thinking Skills in Psychology
  Students will use critical and creative thinking, skeptical inquiry, and the scientific approach to solve problems related to behavior and mental processes.

The Bachelor of Arts degree with a major in psychology requires a minimum of 37 semester hours in psychology, including General Psychology. At least 25 of these hours must be at the upper-division level. The College of Liberal Arts also requires students in Psychology to take at least 6 hours of a second language.

A primary objective of the psychology program is to provide the psychology major with a broadly-based education in the discipline. Therefore, all psychology majors are expected to complete the required curriculum listed below. Remaining coursework will be selected by the student in consultation with the faculty advisor and is designed to meet individual students' needs and interests. The combination of psychology with a minor from another area, such as sociology or communications, often provides more marketable credentials at the bachelor's level of training.

A course in General Psychology (PSYC 2301) or permission of the instructor is required for admission into all psychology courses beyond the 1000-level. The student majoring in psychology shall take the following:

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements**	37
D. University Electives	33-35
E. Foreign Language Requirements	6
	Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Note:

**Hours in the major include 1 hour from MATH 1442

Required Courses:

- PSYC 2301 - General Psychology **3 sem. hrs.**
- PSYC 3411 - Experimental Psychology **4 sem. hrs.**
- PSYC 4309 - History and Systems of Psychology **3 sem. hrs.**

Choose 2 of 4 from: 6 hrs

- PSYC 3342 - Cognitive Psychology **3 sem. hrs.**
- PSYC 3343 - Learning and Behavior **3 sem. hrs.**
- PSYC 4352 - Physiological Psychology **3 sem. hrs.**
- PSYC 4354 - Sensation and Perception **3 sem. hrs.**

Choose 2 of 4 from: 6 hrs

- PSYC 2314 - Lifespan Developmental Psychology **3 sem. hrs.**

- PSYC 2326 - Social Psychology **3 sem. hrs.**
- PSYC 3361 - Psychology of Personality **3 sem. hrs.**
- PSYC 3363 - Abnormal Psychology **3 sem. hrs.**

Psychology Electives - 5 courses 15 hrs

Note:

MATH 1442 or its equivalent is a prerequisite course for taking PSYC 3411 - Experimental Psychology.

PSYC 3411 (or equivalent) is a prerequisite for PSYC 3342, PSYC 3343, PSYC 4352, PSYC, 4354.

In order to register for PSYC 4309, students must first complete 24 hours of psychology coursework and have senior class standing.

Sociology, BA

Sociology is the scientific study of human societies. At the macro-level, sociology studies societies as a whole and their social institutions such as the family, economy, religion, polity, and education. At the micro-level, sociology is concerned with everyday interactions within small social groups.

The purpose of the sociology curriculum is to:

1. provide education in the theories, concepts, definitions and language of sociology;
2. cultivate an understanding of the methods of research and interpretation of research findings;
3. prepare students for graduate study in sociology;
4. develop selected skills applicable to careers in the public or private sector.

Student Learning Outcomes

Students will:

- Demonstrate an understanding in the theories, concepts, definitions and language of sociology;
- Demonstrate the ability to apply professional standards of writing and research to sociological issues;
- Obtain advanced knowledge for use in the pursuit of graduate study in sociology;
- Complete a sociological research project and present it to a professional audience;
- Obtain advanced knowledge of research and writing skills applicable to careers in the public and private sector.

Areas covered in the curriculum include, but are not limited to, development of human societies, the nature of social interactions at the individual and group levels, structures and processes of social organizations, deviant behavior, and research methods and computer applications used in social analysis. Skills acquired from this curriculum are helpful for careers in human services, government, business, and or graduate studies.

The Bachelor of Arts degree with a major in sociology requires a minimum of 37 semester hours in sociology. At least 24 of these hours must be at the upper-division (3300 or 4300) level. The College of Liberal Arts also requires students in sociology to take at least 6 hours of a second language. Sociology majors are encouraged to take MATH 1442 to satisfy the Mathematics Core Curriculum Program requirement. Students who do not take MATH 1442 requirement will be required to do so in order to fulfill

the statistics requirement for majors. Students are also encouraged to select a minor or elective work in a related field that is pertinent to the student's career goals.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements**	38
D. University Electives	32-34
E. Foreign Language Requirements	6
	Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Note:

**Hours in the major include 1 hour from MATH 1442

Major Study Courses

- SOCI 1301 - Human Societies **3 sem. hrs.**
- SOCI 4301 - Social theory **3 sem. hrs.**
- SOCI 4445 - Social Research Methods **4 sem. hrs.**
- SOCI 4385 - Senior Seminar in Sociology **3 sem. hrs.** (to be taken during senior year only)
  (SOCI 4301 and SOCI 4445 must be taken before SOCI 4385)

At least two courses from each of the following two categories:

Social Interaction and Intergroup Relations 6 hrs

- SOCI 2326 - Social Psychology **3 sem. hrs.**
- SOCI 3312 - Racial and Ethnic Relations **3 sem. hrs.**
- SOCI 3320 - Sociology of Gender **3 sem. hrs.**
- SOCI 3321 - Mexican American Women **3 sem. hrs.**
- SOCI 3349 - Sociology of Deviant Behavior **3 sem. hrs.**
- SOCI 4312 - Social Class and Inequality **3 sem. hrs.**
- SOCI 4318 - Social Change and Modernization **3 sem. hrs.**
- SOCI 4320 - Sociology of Sports **3 sem. hrs.**
- SOCI 4331 - Juvenile Delinquency **3 sem. hrs.**
- SOCI 4375 - Graying in America: Sociology of Retirement **3 sem. hrs.**

Social Organizations and Institutions 6 hrs

- SOCI 3315 - Population **3 sem. hrs.**
- SOCI 3340 - Sociology of the Family **3 sem. hrs.**
- SOCI 3350 - Sociology of Education **3 sem. hrs.**
- SOCI 4310 - Sociology of Work and Occupations **3 sem. hrs.**
- SOCI 4315 - Complex Organizations **3 sem. hrs.**
- SOCI 4325 - Medical Sociology **3 sem. hrs.**
- SOCI 4335 - Criminology **3 sem. hrs.**

Sociology Electives 12 hrs

- Elective coursework may include courses in Sociology or Anthropology as selected by the student in consultation with a faculty advisor. Electives are designed to meet students' needs and interests.

Total: 37 hrs

Required Sequences of Courses:

SOCI 1301 before all other sociology courses
MATH 1442 before SOCI 4445
SOCI 3312 before SOCI 4312
SOCI 4445 and SOCI 4301 must be taken before SOCI 4385

Note:

Human Societies (SOCI 1301) or a course in Introductory Sociology or permission of the instructor is required for admission into all upper-division sociology courses.

Minor

Psychology Minor

The student minoring in psychology shall take 18 hours of coursework to include the following courses:

- PSYC 2301 - General Psychology **3 sem. hrs.**

Choose 2 of 4 from: 6 hrs

- PSYC 3342 - Cognitive Psychology **3 sem. hrs.**
- PSYC 3343 - Learning and Behavior **3 sem. hrs.**
- PSYC 4352 - Physiological Psychology **3 sem. hrs.**
- PSYC 4354 - Sensation and Perception **3 sem. hrs.**

Note:

PSYC 3411 - Experimental Psychology or an equivalent methods course is a prerequisite for PSYC 3342, 3343, 4352, and 4354.

Psychology Electives – 3 courses 9 hrs

Social Work Minor

This minor is an interdisciplinary program for undergraduate students who are interested in the field of social work or social services and want more in-depth study in this area than other courses provide. This program is designed to complement undergraduate study programs in the University.

The purpose of the minor is to give students a basic understanding of social work practice. This includes the history, function, and processes with emphasis on skill application.

Social work is concerned with human well-being. Social workers help people function within their environment and work for improved social conditions. They provide services to people in areas such as counseling, education, health, mental health, housing, public welfare, services to the aging, care for the retarded, family services, child welfare services, and criminal justice.

Requirement for the Minor

A minimum of 18 semester hours of coursework from the following courses is required for the minor. At least 15 of the hours must be at the upper-division level and at least 9 must be taken at A&M-Corpus Christi. Students should complete all general education core requirements prior to enrollment in the required upper-division social work minor courses.

Required Courses

- SOCW 3301 - Introduction to Social Work **3 sem. hrs.**
- SOCW 3310 - Approaches to Social Welfare **3 sem. hrs.**
- SOCW 3320 - Social Services in the Community **3 sem. hrs.**
- SOCW 3350 - Social Work Practice **3 sem. hrs.**

Electives

The electives for this minor must be selected outside your major. Any electives not included in the list below must have prior approval by your Social Work advisor.

Social Work

- SOCW 4398 - Applied Experience **3 sem. hrs.**

Psychology

- PSYC 2314 - Lifespan Developmental Psychology **3 sem. hrs.**
- PSYC 3363 - Abnormal Psychology **3 sem. hrs.**
- PSYC 4332 - Cross-cultural Psychology **3 sem. hrs.**
- PSYC 4367 - Gender Issues in Psychology **3 sem. hrs.**

Sociology

- SOCI 3312 - Racial and Ethnic Relations **3 sem. hrs.**
- SOCI 3320 - Sociology of Gender **3 sem. hrs.**
- SOCI 3321 - Mexican American Women **3 sem. hrs.**
- SOCI 3340 - Sociology of the Family **3 sem. hrs.**
- SOCI 4312 - Social Class and Inequality **3 sem. hrs.**
- SOCI 4325 - Medical Sociology **3 sem. hrs.**

Criminal Justice

- CRIJ 4331 - Juvenile Delinquency **3 sem. hrs.**
- CRIJ 4360 - Domestic Violence **3 sem. hrs.**

Sociology Minor

To obtain a minor in sociology the student must register with the program degree coordinator and complete the 18 semester hours required for a minor. Of these, 12 hours must be upper division. The student must complete SOCI 1301 and at least one course from each of the following areas (to total 15 semester hours):

Required Course

- SOCI 1301 - Human Societies **3 sem. hrs.** before all other SOCI courses

Area 1

- SOCI 3312 - Racial and Ethnic Relations **3 sem. hrs.**
- SOCI 3320 - Sociology of Gender **3 sem. hrs.**
- SOCI 2326 - Social Psychology **3 sem. hrs.**
- SOCI 4312 - Social Class and Inequality **3 sem. hrs.**

Area 2

- SOCI 3315 - Population **3 sem. hrs.**
- SOCI 3340 - Sociology of the Family **3 sem. hrs.**
- SOCI 4310 - Sociology of Work and Occupations **3 sem. hrs.**
- SOCI 4315 - Complex Organizations **3 sem. hrs.**

Area 3

- SOCI 3349 - Sociology of Deviant Behavior **3 sem. hrs.**
- SOCI 4331 - Juvenile Delinquency **3 sem. hrs.**
- SOCI 4335 - Criminology **3 sem. hrs.**

Area 4

- SOCI 4301 - Social theory **3 sem. hrs.**
- SOCI 4318 - Social Change and Modernization **3 sem. hrs.**
- SOCI 4445 - Social Research Methods **4 sem. hrs.**

Area 5

- SOCI elective **3 sem. hrs.**

Social Sciences

Bachelor of Arts

Political Science, BA

Political Science

Political science is the study of politics, government, and public policy at the local, state, national, and international levels. It is concerned with the struggle for power and the exercise of power in public institutions. Political science seeks to reveal the patterns of behavior associated with politics, to explain the functioning of political and governmental institutions, to appraise alternative public policies, and to assess government's role in society.

The purpose of the political science program is to provide instruction for all university students in the basics of United States and Texas government; to contribute to the development of university students through study of the ideas and practice of politics; and to prepare political science majors for careers in many fields and graduate study. The program also offers a limited number of graduate courses for students selecting political science in the Master of Arts in Interdisciplinary Studies program, and as electives in the Master of Public Administration program.

The major in political science provides a proper background for a variety of diverse careers. Several career tracks are provided that can guide and prepare students for the job market. The career tracks are:

Public Administration/Policy: This track is designed to provide the political science major with a foundation for a career in government.

Pre-Law: This track is designed for students who wish to enter law school.

Professional Political Science: Students wishing to become campaign professionals and consultants are encouraged to pursue this track.

Comparative/International: Students interested in pursuing a career in the international arena of politics or business are encouraged to follow this career track.

Academic: The academic track is designed for students wishing to pursue advanced degrees in political science.

Student Learning Outcomes

Students will:

- Demonstrate an understanding of the definitions, concepts and theories of political science;
- Demonstrate the ability to engage in directed research, write effectively, and interpret and analyze empirical political data;
- Demonstrate advanced knowledge in one of the major areas of political science: American institutions, American political behavior, international/comparative politics, and political theory;
- Translate these skills to a professional or graduate program or to careers related to politics.

Major in Political Science

To earn a major in political science a student must complete a minimum of 30 semester hours of political science courses beyond the requirements of the Core Curriculum Program. Political science majors are required to take MATH 1442 to satisfy the Mathematics Core Curriculum Program requirement. Students who did not take MATH 1442 to satisfy the core Math requirement will be required to do so to fulfill the requirement for majors. Students must take POLS 3303 and POLS 4303. Students will take POLS 4303 during their senior year.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements**	31
D. University Electives	39-41
E. Foreign Language Requirements	6
	Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Note:

**Hours in the major include 1 hour from MATH 1442

Students must take 18 upper division hours from the following lists, with at least one course from each list:

List 1

- POLS 3313 - The Legislative Process **3 sem. hrs.**
- POLS 3316 - The American Presidency **3 sem. hrs.**
- POLS 3317 - Judicial Politics **3 sem. hrs.**

List 2

- POLS 3321 - Comparative Politics **3 sem. hrs.**
- POLS 3331 - International Relations **3 sem. hrs.**
- POLS 4320 - The Politics of the European Union **3 sem. hrs.**
- POLS 4325 - Politics in Latin America **3 sem. hrs.**

List 3

- POLS 3361 - Western Political Theory **3 sem. hrs.**
- POLS 3365 - Political Theory and Ideologies **3 sem. hrs.**
- POLS 4361 - American Political Thought **3 sem. hrs.**

List 4

- POLS 3312 - Campaigns and Elections **3 sem. hrs.**
- POLS 3314 - Public Opinion **3 sem. hrs.**
- POLS 3315 - Political Parties **3 sem. hrs.**

The remaining 6 semester hours of unrestricted elective may be any upper-division political science course. The College of Liberal Arts also requires students in Political Science to take at least 6 hours of a second language.

Career Tracks

The career tracks are not binding. They are suggested course offerings that students may choose to prepare themselves for various careers.

Public Administration/Policy

Political Science Courses

- POLS 3341 - Introduction to Public Administration **3 sem. hrs.**
- POLS 3342 - Introduction to Public Policy **3 sem. hrs.**
- POLS 4311 - Urban Politics **3 sem. hrs.**
- POLS 4312 - Government Budgeting and Finance **3 sem. hrs.**
- POLS 4315 - Mexican American Politics **3 sem. hrs.**
- POLS 4390 - Topics in Political Science **3 sem. hrs.** (when appropriate)

Electives

- Accounting, Economics, Finance, Management, Statistics, Computer

Pre-Law

Political Science Courses

- There is not a recommended group of pre-law courses. Students should seek a fundamental understanding of the contemporary American political system, political thought, and theory. Consult with a pre-law advisor.

Electives

- Courses that emphasize logic, analytical thinking, and critical writing

Professional Political Science

Political Science Courses

- POLS 3311 - Women and Politics **3 sem. hrs.**
- POLS 3312 - Campaigns and Elections **3 sem. hrs.**
- POLS 3314 - Public Opinion **3 sem. hrs.**
- POLS 3315 - Political Parties **3 sem. hrs.**
- POLS 3342 - Introduction to Public Policy **3 sem. hrs.**
- POLS 3365 - Political Theory and Ideologies **3 sem. hrs.**
- POLS 4314 - Media and Politics **3 sem. hrs.**
- POLS 4315 - Mexican American Politics **3 sem. hrs.**
- POLS 4390 - Topics in Political Science **3 sem. hrs.** (when appropriate)

Electives

- Statistics, Research Methods, Sociology

Comparative/International

Political Science Courses

- POLS 3321 - Comparative Politics **3 sem. hrs.**
- POLS 3331 - International Relations **3 sem. hrs.**
- POLS 3365 - Political Theory and Ideologies **3 sem. hrs.**
- POLS 4320 - The Politics of the European Union **3 sem. hrs.**
- POLS 4322 - Transitions to Democracy **3 sem. hrs.**
- POLS 4325 - Politics in Latin America **3 sem. hrs.**
- POLS 4390 - Topics in Political Science **3 sem. hrs.** (when appropriate)

Electives

- Foreign Language (beyond requirements), Economics, World History

Academic

Political Science Courses

- Consult with advisor

Electives

- Statistics, Writing, Computer, Economics

Bachelor of Science

Criminal Justice, BS

Criminal Justice

The Criminal Justice Program leads to a Bachelor of Science Degree in Criminal Justice and supports the Bachelor of Applied Science Degree with courses applicable to the Criminal Justice, Community and Mental Health, and Legal Studies tracks. The program has two main objectives: to provide an advanced understanding of the criminal justice system and its components and to provide either a concentration of knowledge and application of skills in a specialized subfield of study or a broad exploration of the discipline based on individual student needs through the selection of disciplinary electives.

The curriculum is planned to offer preparation for a professional career by integrating a core of Criminal Justice courses into a general program of the arts, sciences, humanities and social sciences. The student in consultation with faculty will determine the most desirable course offerings from core courses and recommended electives to achieve his or her particular educational goals. The program may be used as preparation for entry into graduate work or law school. Criminal Justice courses are recommended as social science electives for non-majors.

Student Learning Outcomes:

Students will:

- Demonstrate an understanding of the operation and purposes of the major components of the criminal justice system (police, courts, and corrections)
- Demonstrate the ability to critically analyze the criminal justice system and its aims and objectives
- Demonstrate the ability to apply professional standards of writing and research to criminal justice issues

Program Requirements

The Criminal Justice major requires a minimum of 33 semester hours, 27 semester hours of which must be at the upper-division level. Supporting courses related to essential skills totaling 7 hours are also required. Criminal Justice majors are encouraged to take MATH 1442 to satisfy the Mathematics Core Curriculum Program requirement. Students who do not take MATH 1442 in the Core Curriculum will be required to do so to fulfill the supporting coursework requirement for majors. Criminal Justice majors must complete the Systems Requirement in the Core, CRIJ 1301 or CRIJ 1313, within their first 12 credit hours of Criminal Justice courses. No more than 21 semester hours of lower-division criminal justice credit may be applied to fulfill baccalaureate degree requirements. The College Liberal Arts also requires students in Criminal Justice to take at least 6 hours of a second language.

Students seeking the Bachelor of Science in Criminal Justice are expected to develop a breadth of knowledge of the component parts of the criminal justice system. Through their choice of disciplinary electives, students may concentrate on Criminal Justice subfields or broadly explore the discipline and its career options. Students should select a majority of their upper-division elective hours from disciplines which support their choice of specialization.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements**	36-40
D. University Electives	30-32
E. Foreign Language Requirements	6
	Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Note:

** Major Requirements vary based on whether or not MATH 1442 is taken within the Core.

Criminal Justice Major Requirements: (18 sem. hrs.)

Students who major in Criminal Justice must complete the following coursework.

Systems*

From:

- CRIJ 1301 - Introduction to Criminal Justice **3 sem. hrs.** OR
- CRIJ 1313 - The Juvenile Justice System **3 sem. hrs.**

Theoretical Perspectives

From:

- CRIJ 4331 - Juvenile Delinquency **3 sem. hrs.** OR
- CRIJ 4335 - Criminology **3 sem. hrs.**

Corrections

From:

- CRIJ 3325 - Community-Based Corrections **3 sem. hrs.** OR
- CRIJ 4320 - Offender Rehabilitation **3 sem. hrs.** OR
- CRIJ 4321 - American Prisons and Prisoners **3 sem. hrs.**

Courts

From:

- CRIJ 3310 - The Judicial Process **3 sem. hrs.** OR
- CRIJ 4313 - Criminal Procedure **3 sem. hrs.**

Law Enforcement

From:

- CRIJ 3302 - Police and Society **3 sem. hrs.** OR
- CRIJ 4351 - Police Supervision and Management **3 sem. hrs.**

Research Methods

- CRIJ 4345 - Research Methods in Criminal Justice **3 sem. hrs.**

Note:

*The three credit Systems requirement may be satisfied by lower-division transfer credit. This requirement must be taken within the first 12 credit hours of Criminal Justice.

Criminal Justice Electives: (15 sem. hrs.)

- Any Criminal Justice course may be taken as an elective.
- (Three credits of Criminal Justice electives may be satisfied by a lower-division course or lower-division transfer credit.)

Required Supporting Courses: (6 sem. hrs.)

- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**
- MATH 1442 - Statistics for Life **4 sem. hrs.**

Students may choose to concentrate their Criminal Justice Electives in a subfield as suggested by the following lists.

Theoretical Perspectives:

- CRIJ 3315 - Crime Prevention **3 sem. hrs.**
- CRIJ 4330 - Understanding Criminal Behavior **3 sem. hrs.**
- CRIJ 4331 - Juvenile Delinquency **3 sem. hrs.**
- CRIJ 4335 - Criminology **3 sem. hrs.**
- CRIJ 4322 - Crime and Punishment in Literature **3 sem. hrs.**

Corrections:

- CRIJ 3320 - Issues in Corrections **3 sem. hrs.**
- CRIJ 3325 - Community-Based Corrections **3 sem. hrs.**
- CRIJ 4320 - Offender Rehabilitation **3 sem. hrs.**
- CRIJ 4321 - American Prisons and Prisoners **3 sem. hrs.**
- CRIJ 4324 - Women and Criminal Justice **3 sem. hrs.**

Courts:

- CRIJ 3310 - The Judicial Process **3 sem. hrs.**
- CRIJ 4310 - Constitutional Law **3 sem. hrs.**
- CRIJ 4311 - Criminal Law **3 sem. hrs.**
- CRIJ 4312 - Law and Evidence **3 sem. hrs.**
- CRIJ 4313 - Criminal Procedure **3 sem. hrs.**

Law Enforcement:

- CRIJ 2328 - Police Systems and Practices **3 sem. hrs.**
- CRIJ 3302 - Police and Society **3 sem. hrs.**
- CRIJ 3340 - Comparative Criminal Justice **3 sem. hrs.**
- CRIJ 4340 - Criminal Investigation **3 sem. hrs.**
- CRIJ 4351 - Police Supervision and Management **3 sem. hrs.**

Note:

Students may also choose Criminal Justice Electives and from among courses not categorized in the subfields including CRIJ 3350, CRIJ 4360, CRIJ 4365, CRIJ 4370, CRIJ 4380, CRIJ 4390, CRIJ 4396, and CRIJ 4398.

Minor

Criminal Justice Minor

The minor in Criminal Justice consists of 18 semester hours of Criminal Justice coursework, 15 of which must be at the upper-division level. The 18 semester hours for the Minor in Criminal Justice must be selected from the following courses.

Criminal Justice Minor Core Courses: (15 sem. hrs.)

Systems *

From:

- CRIJ 1301 - Introduction to Criminal Justice **3 sem. hrs.**
- CRIJ 1313 - The Juvenile Justice System **3 sem. hrs.**
- CRIJ 3350 - Criminal Justice Management **3 sem. hrs.**

Theoretical Perspectives

From:

- CRIJ 3315 - Crime Prevention **3 sem. hrs.**
- CRIJ 4331 - Juvenile Delinquency **3 sem. hrs.**
- CRIJ 4335 - Criminology **3 sem. hrs.**
- CRIJ 4322 - Crime and Punishment in Literature **3 sem. hrs.**

Corrections

From:

- CRIJ 4320 - Offender Rehabilitation **3 sem. hrs.**
- CRIJ 4321 - American Prisons and Prisoners **3 sem. hrs.**
- CRIJ 4390 - Topics in Criminal Justice **3 sem. hrs.** **

Courts

From:

- CRIJ 3310 - The Judicial Process **3 sem. hrs.**
- CRIJ 4311 - Criminal Law **3 sem. hrs.**
- CRIJ 4312 - Law and Evidence **3 sem. hrs.**
- CRIJ 4313 - Criminal Procedure **3 sem. hrs.**
- CRIJ 4390 - Topics in Criminal Justice **3 sem. hrs.** **

Law Enforcement

From:

- CRIJ 3302 - Police and Society **3 sem. hrs.**
- CRIJ 3340 - Comparative Criminal Justice **3 sem. hrs.**
- CRIJ 4390 - Topics in Criminal Justice **3 sem. hrs.** **

Elective: 3 sem. hrs.*

Note:

*Either the three credit Systems requirement or the Elective requirement may be satisfied by lower-division transfer credit.

**CRIJ 4390 may be included on recommendation of the faculty adviser when the topic is appropriate for the specialization.

Political Science Minor

To earn a minor in political science a student must complete a minimum of 18 semester hours of political science courses beyond the requirements of the Core Curriculum Program.

Of these 18 semester hours, at least one course (3 hours) must be taken from the courses in EACH of the four lists below:

List 1

- POLS 3312 - Campaigns and Elections **3 sem. hrs.**
- POLS 3314 - Public Opinion **3 sem. hrs.**
- POLS 3315 - Political Parties **3 sem. hrs.**

List 2

- POLS 3313 - The Legislative Process **3 sem. hrs.**
- POLS 3316 - The American Presidency **3 sem. hrs.**
- POLS 3317 - Judicial Politics **3 sem. hrs.**

List 3

- POLS 3321 - Comparative Politics **3 sem. hrs.**
- POLS 3331 - International Relations **3 sem. hrs.**
- POLS 4325 - Politics in Latin America **3 sem. hrs.**

List 4

- POLS 3361 - Western Political Theory **3 sem. hrs.**
- POLS 3365 - Political Theory and Ideologies **3 sem. hrs.**
- POLS 4361 - American Political Thought **3 sem. hrs.**

The remaining 6 hours of unrestricted electives can be any political science course.

Other Minors

Minor

Pre-Law Minor

This minor is intended for those students who are considering law school and want to obtain the foundational skills to gain entrance to and succeed in law school. It consists of 21 hours, 15 of which must be upper-division. The courses are designed to meet the core skills and values laid out by the American Bar Association.* This includes the ability to write, research, read critically, analyze, communicate, and value serving others by promoting justice. The minor will also enable students to obtain the general knowledge expected of law school applicants.

Required Courses

Students in the pre-law minor must satisfy 3 hours from each othe following seven categories:

- Writing
- Analytical and Problem Solving
- Critical Reading and General Knowledge
- Oral Communication and Listening
- Research
- Value of Serving Others
- Legal Topics

Elective Courses

Writing (3 hours)

Choose one of the following:

- ENGL 2370 - Introduction to English Studies **3 sem. hrs.**
- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**
- ENGL 3375 - Writing in the Professions **3 sem. hrs.**

Analytical and Problem Solving (3 hours)

Choose one of the following:

- PHIL 2303 - Introduction to Logic and Critical Thinking **3 sem. hrs.**
- PHIL 3346 - Elementary Formal Logic **3 sem. hrs.**
- MGMT 4340 - Critical Thinking and Decision Making **3 sem. hrs.**

Critical Reading and General Knowledge (3 hours)

Choose one of the following:

- ECON 4388 - History of Economic Thought **3 sem. hrs.**
- HIST 2311 - Western Civilization I **3 sem. hrs.**
- HIST 2312 - Western Civilization II **3 sem. hrs.**
- HIST 4336 - Mexican American History **3 sem. hrs.**
- MXAS 3301 - Introduction to Mexican American Studies **3 sem. hrs.**
- RELS 3301 - History of World Religions **3 sem. hrs.**
- SOCI 4312 - Social Class and Inequality **3 sem. hrs.**
- PHIL 3344 - Social and Political Philosophy **3 sem. hrs.**
- POLS 3303 - Contemporary Political Analysis **3 sem. hrs.**
- POLS 3321 - Comparative Politics **3 sem. hrs.**
- POLS 4361 - American Political Thought **3 sem. hrs.**
- WGST 3301 - Introduction to Women and Gender Studies **3 sem. hrs.**

Oral Communication and Listening

Choose one of the following:

- COMM 1315 - Public Speaking **3 sem. hrs.** *
- COMM 2333 - Small Group Communication **3 sem. hrs.**
- COMM 3330 - Persuasion **3 sem. hrs.**
- COMM 4345 - Intercultural Communication **3 sem. hrs.**

  * Public Speaking may not be counted towards both the core and the minor. It is required for students who did not take it as part of the core curriculum (e.g. some transfer students).

Research (3 hours)

Choose one of the following:

- CRIJ 4345 - Research Methods in Criminal Justice **3 sem. hrs.**
- SOCI 4390 - Topics in Sociology **3 sem. hrs.** *
- SOCI 4445 - Social Research Methods **4 sem. hrs.**
- Capstone: Research based capstone in your major **3 sem. hrs.***

  *This must be approved by your faculty mentor and prelaw advisor

Value of Servings Others (3 hours)

Choose one of the following:

- CRIJ 4398 - Applied Experience **3 sem. hrs.**
- ENGL 4321 - Grant Writing **3 sem. hrs.**
- SOCI 4398 - Applied Experience **3 sem. hrs.** *
- SOCW 4398 - Applied Experience **3 sem. hrs.** *
- Service Learning - Upper-division course with a service learning component*

  * Must be approved by faculty or minor advisor.

Legal Topics (3 hours)

Choose one of the following:

- BLAW 3310 - Legal Environment of Business **3 sem. hrs.**
- BLAW 4350 - Human Resource Law **3 sem. hrs.**
- COMM 4395 - First Amendment and Ethical Issues in the Media **3 sem. hrs.**
- CRIJ 3310 - The Judicial Process **3 sem. hrs.**
- CRIJ 4310 - Constitutional Law **3 sem. hrs.**
- CRIJ 4311 - Criminal Law **3 sem. hrs.**

- CRIJ 4312 - Law and Evidence **3 sem. hrs.**
- ESCI 4301 - Environmental Regulations **3 sem. hrs.**
- GISC 4305 - Legal Aspects of Spatial Information **3 sem. hrs.**
- HLSC 4310 - Health Law **3 sem. hrs.**
- KINE 3335 - Legal Issues in Sport **3 sem. hrs.**
- PHIL 3343 - Philosophy of Law **3 sem. hrs.**

Women and Gender Studies Minor

This minor is an interdisciplinary program for undergraduate students who desire more in-depth study than can be obtained in one or a few courses on the changing statuses, issues, problems, and future prospects of women and men in contemporary society. The interdisciplinary nature of this program integrates the study of intersections of gender, race, class, and sexuality in multicultural and global contexts. This program is designed to complement undergraduate study programs in the University.

Students who select this minor must consult and have approval of the program advisor to establish a plan of study. This should be done prior to completing 6 hours of coursework listed for the program. The minor plan must be filed with an academic advisor in the College of Liberal Arts and certified prior to application for graduation by the Dean of the College in which the major study degree will be awarded.

A minimum of 18 semester hours selected from the following courses is required for the minor. Topics courses (*) may be taken for credit when the announced content is appropriate to the minor. At least 12 of the hours must be at the upper division level and 12 must be taken at A&M-Corpus Christi.

Required Courses

- WGST 3301 - Introduction to Women and Gender Studies **3 sem. hrs.** (Open to all students)
- WGST 4380 - Senior Seminar in Women and Gender Studies **3 sem. hrs.**

Elective Courses

- ANTH 3390 - Special Topics in Anthropology **3 sem. hrs.** *
- ARTS 4390 - Topics in Art **3 sem. hrs.** *
- BIOL 4590 - Selected Topics **1-5 sem. hrs.** *
- BLAW 4390 - Current Topics in Business Law **1-3 sem. hrs.** * Women in the Workplace
- COMM 4314 - Gender Communication **3 sem. hrs.**
- COMM 4345 - Intercultural Communication **3 sem. hrs.**
- CRIJ 4324 - Women and Criminal Justice **3 sem. hrs.**
- CRIJ 4360 - Domestic Violence **3 sem. hrs.**
- ENGL 3366 - Language in Society **3 sem. hrs.**
- ENGL 4360 - Literature and Gender **3 sem. hrs.**
- ENGL 4361 - Ethnic American Literature **3 sem. hrs.**
- ENGL 4390 - Topics in English **3 sem. hrs.** *
- HIST 4337 - United States Women's History **3 sem. hrs.**

- HIST 4340 - European Women's History **3 sem. hrs.**
- MXAS 4390 - Topics in Mexican American Studies **3 sem. hrs.** *
- NURS 4390 - Dimensions in Nursing **1-3 sem. hrs.** *
- POLS 3311 - Women and Politics **3 sem. hrs.**
- PSYC 3374 - Human Sexuality **3 sem. hrs.**
- PSYC 4367 - Gender Issues in Psychology **3 sem. hrs.**
- PSYC 4390 - Topics in Psychology **3 sem. hrs.** *
- SOCI 3320 - Sociology of Gender **3 sem. hrs.**
- SOCI 3321 - Mexican American Women **3 sem. hrs.**
- SOCI 3340 - Sociology of the Family **3 sem. hrs.**
- SPAN 4390 - Topics in Spanish **3 sem. hrs.** *

Note:

* Topics courses (3390 and 4390) are limited to those approved by the program adviser as appropriate

Theatre and Dance

Bachelor of Arts

Theatre, BA

Theatre

The mission of the Texas A&M University-Corpus Christi Theatre Program is to provide students with the tools needed for preparation as theatre educators or professional practitioners, or for continuation of their studies on the graduate level.

The goal of the program is to provide students with meaningful experiences that promote an understanding of theatre as a medium of expression and collaboration. Students are given opportunities for creative and critical thinking, problem solving, and exploration in an environment that values artistic integrity, understands failure as well as success, and respects the viewpoints of others in the encouragement of artistic truth. The extensive season of the Theatre Program serves not only as a training lab for the students, but also enhances the cultural and aesthetic experience of the campus and is a major cultural resource for the residents of South Texas.

Student Learning Outcomes

1. Theatre:

- Demonstrate written analysis competencies in historical research and script analysis;
- Communicate historical and cultural dimensions of theatre during a required exit jury with the entire faculty.

- Communicate and defend their senior capstone project to the entire Theatre faculty;
- Communicate and defend a cumulative portfolio of their work complete with headshot, resume, and marketing strategy for post-baccalaureate opportunities in graduate school or professional work.

2. BA in Theatre graduates with teaching certification will demonstrate the following:

- Complete #1 above;
- Communicate visual and aural perceptions of theatre performance during a required exit jury with the entire theatre faculty. The student will use specific examples from their participation in University Theatre productions.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN THEATRE

Students earning a Bachelor of Arts with a major in Theatre may concentrate on one of two specialties:

Acting/Directing Focus

Design/Technical Theatre Focus

Theatre majors may also pursue a Bachelor of Arts in Theatre leading to teacher certification.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	57
D. University Electives	10-12
E. Foreign Language Requirements	6
	Total 120

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Specific Degree Requirements:

All theatre majors must meet all general University and College graduation requirements, including Computer Literacy and UCCP First Year Seminars, regardless of the following specific degree requirements, unless specifically exempt. It is critical for all theatre majors to meet with their academic advisor prior to registering each semester.

Theatre Core Courses: Required for all majors

(33 semester hours)

- THEA 1100 - Theatre Production Lab I **1 sem. hrs.**
- THEA 1101 - Theatre Production Lab II **1 sem. hrs.**
- THEA 1351 - Acting I **3 sem. hrs.**
- THEA 1371 - Costume Construction **3 sem. hrs.**
- THEA 2100 - Theatre Production Lab III **1 sem. hrs.**
- THEA 2101 - Theatre Production Lab IV **1 sem. hrs.**
- THEA 2370 - Theatre Stagecraft **3 sem. hrs.**
- THEA 3100 - Theatre Production Lab V **1 sem. hrs.**
- THEA 3101 - Theatre Production Lab VI **1 sem. hrs.**
- THEA 3311 - Script Analysis **3 sem. hrs.**
- THEA 3350 - Production Management **3 sem. hrs.**
- THEA 3370 - History of the Theatre I **3 sem. hrs.**
- THEA 3371 - History of the Theatre II **3 sem. hrs.**
- THEA 4100 - Senior Seminar **1 sem. hrs.**
- THEA 4200 - Senior Capstone **2 sem. hrs.**
- THEA 4360 - Stage Direction I **3 sem. hrs.**

Acting/Directing Focus Area:

(27 required credit hour core)

The following courses are required as the core in Acting/Directing:

- THEA 1341 - Stage Makeup **3 sem. hrs.**
- THEA 1342 - Voice and Diction **3 sem. hrs.**
- THEA 1352 - Acting II **3 sem. hrs.**
- THEA 3300 - Movement for Actors **3 sem. hrs.**
- THEA 3340 - Audition Preparation **3 sem. hrs.**
- THEA 3375 - Acting III: Period Styles **3 sem. hrs.**
- THEA 3385 - Musical Theatre **3 sem. hrs.**
- THEA 4361 - Stage Direction II **3 sem. hrs.**
- THEA 4371 - Acting for the Camera **3 sem. hrs.**

Total Hours for BA in Theatre: Acting/Directing Focus: 60 hrs.

Dance Electives

The following courses are suggested as electives for the Acting/Directing Focus Area:

- * DANC 1141 - Ballet I **1 sem. hrs.**
- * DANC 1147 - Jazz Dance I **1 sem. hrs.** **
- * DANC 1148 - Modern Dance I **1 sem. hrs.**
- * DANC 1304 - Dance in Performance **3 sem. hrs.**
- DANC 3303 - World Dance and Culture **3 sem. hrs.**
- DANC 3306 - Dance Composition **3 sem. hrs.**
- DANC 4306 - Dance Composition II **3 sem. hrs.**

*May be repeated for credit.
**KINE 1124 Beginning Jazz Dance may be substituted for DANC 1147.

Design/Technical Theatre Focus Area:

(24 credit hour core)

The following courses are required as the core in the Design/Technical Theatre Focus:

- THEA 1341 - Stage Makeup **3 sem. hrs.**
- THEA 1352 - Acting II **3 sem. hrs.**
- THEA 3373 - Principles of Design **3 sem. hrs.**
- THEA 3382 - Drafting and Computer-Aided Design for the Stage **3 sem. hrs.**
- THEA 4314 - Collaborative Approaches to Design **3 sem. hrs.**
- THEA 4365 - Costume Design **3 sem. hrs.**
- THEA 4370 - Set Design **3 sem. hrs.**
- THEA 4375 - Lighting Design **3 sem. hrs.**

Total Hours for BA in Theatre: Design/Technical Theatre Focus: 57 hrs.

Teacher Certificate

Theatre Arts Teacher Certification

Student Learning Outcomes

BA in Theatre graduates with teaching certification will demonstrate the following:

Students will

- Demonstrate written analysis competencies in historical research and script analysis;
- Communicate historical and cultural dimensions of theatre during a required exit jury with the entire faculty.
- Communicate and defend their senior capstone project to the entire Theatre faculty;
- Communicate and defend a cumulative portfolio of their work complete with headshot, resume, and marketing strategy for post-baccalaureate opportunities in graduate school or professional work
- Communicate visual and aural perceptions of theatre performance during a required exit jury with the entire theatre faculty. The student will use specific examples from their participation in University Theatre productions.

Teacher Certification in Theatre Arts (grades Early Childhood – 12)

All students seeking certification in Theatre Arts should select a Theatre faculty advisor to help them choose appropriate courses and co-curricular activities. Students certifying to teach in Theatre will be required to perform in at least one University Theatre performance and to work design/technical crew in at least one production. A student may receive course credit for working on a University Theatre production.

For information on required professional development courses and other teacher certification requirements, please see the College of Education section of this catalog. Students should also consult the Certification Office of the College of Education for complete and current information about teacher certification requirements.

To qualify to take the TExES (Texas Examinations of Educator Standards), in the field of Theatre, students must meet the following criteria:

1. Make pre-specified acceptable scores on TExES practice tests, or departmental equivalent, and participate in practice test review and analysis session.
2. Provide official permit with signature of Program Coordinator or designated person for each teaching field on the student's certification plan.

Students must also qualify to take the Professional Development TExES.

Degree Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Major Requirements	51
D. Professional Development	27
E. Foreign Language Requirements	6
	Total 126 (128)

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Requirements leading to teacher certification in Theatre Arts are as follows:

- THEA 1100 - Theatre Production Lab I **1 sem. hrs.**
- THEA 1101 - Theatre Production Lab II **1 sem. hrs.**
- THEA 1342 - Voice and Diction **3 sem. hrs.**
- THEA 1351 - Acting I **3 sem. hrs.**
- THEA 1352 - Acting II **3 sem. hrs.**
- THEA 1371 - Costume Construction **3 sem. hrs.**
- THEA 2100 - Theatre Production Lab III **1 sem. hrs.**
- THEA 2101 - Theatre Production Lab IV **1 sem. hrs.**
- THEA 2370 - Theatre Stagecraft **3 sem. hrs.**
- THEA 3100 - Theatre Production Lab V **1 sem. hrs.**
- THEA 3101 - Theatre Production Lab VI **1 sem. hrs.**
- THEA 3300 - Movement for Actors **3 sem. hrs.** (Highly Recommended)
- THEA 3302 - Creative Dramatics **3 sem. hrs.**
- THEA 3311 - Script Analysis **3 sem. hrs.**
- THEA 3335 - UIL Debate and Speech **3 sem. hrs.** (Highly Recommended)
- THEA 3370 - History of the Theatre I **3 sem. hrs.**
- THEA 3371 - History of the Theatre II **3 sem. hrs.**
- THEA 3373 - Principles of Design **3 sem. hrs.**
- THEA 3375 - Acting III: Period Styles **3 sem. hrs.**
- THEA 4314 - Collaborative Approaches to Design **3 sem. hrs.**
- THEA 4360 - Stage Direction I **3 sem. hrs.**
- THEA 4361 - Stage Direction II **3 sem. hrs.**

Total hours for BA in Theatre: Teacher Certification: 48 hrs.

Minor

Theatre Minor

The minor is designed for students who wish to pursue the study of theatre. It is also recommended for students who wish to study in the performing arts, but who plan to major in another field. The Theatre minor consists of a minimum 19 semester hours of Theatre, including 12 upper-level hours.

Students who select this minor must consult with the Faculty Advisor to the Theatre Minor prior to completing 6 semester hours of coursework listed in the program. The minor plan must be filed with the Academic Advisor in the College of Liberal Arts and certified prior to application for graduation by the Dean of the College in which the major study is awarded.

Required Courses for the Minor:

- THEA 1351 - Acting I **3 sem. hrs.**
- THEA 3311 - Script Analysis **3 sem. hrs.**
- THEA 4360 - Stage Direction I **3 sem. hrs.**

Choose one of the following: 4 hours

- THEA 1100 - Theatre Production Lab I **1 sem. hrs.** AND
  THEA 1371 - Costume Construction **3 sem. hrs.**
  OR
- THEA 1101 - Theatre Production Lab II **1 sem. hrs.** AND
  THEA 2370 - Theatre Stagecraft **3 sem. hrs.**

Choose one of the following: 3 hours

- THEA 3370 - History of the Theatre I **3 sem. hrs.** OR
- THEA 3371 - History of the Theatre II **3 sem. hrs.**

Choose one of the following: 3 hours

- THEA 3300 - Movement for Actors **3 sem. hrs.** OR
- THEA 3385 - Musical Theatre **3 sem. hrs.** OR
- THEA 4390 - Topics in Theatre **1-3 sem. hrs.**

College of Nursing and Health Sciences

College of Nursing and Health Sciences

Nursing, BSN

Health Sciences, BSHS

Health Science Minor

Mission

The College of Nursing & Health Sciences positively impacts the health of the global population through the education of health care leaders and providers of tomorrow with innovative educational programs in the nursing and health professions. The College identifies, attracts, and graduates students of high potential, especially from groups who have been historically under-represented in the organization and provision of health care. This work is enhanced through faculty contributions to community service, leadership, practice and research. These activities are fostered in a collaborative interprofessional and multicultural learning environment promoting a sense of community and caring.

College of Nursing and Health Sciences Goals

The goals of the College of Nursing and Health Sciences assist the College in implementing the university and college missions:

1. To develop within the student the knowledge and skills necessary for beginning professional and advanced health care practice, cultivating basic and specialized abilities needed to successfully pursue a career.
2. To promote the concept of caring and facilitate attainment of a care delivery system sensitive to multicultural diverse communities and their health values.
3. To offer individuals the opportunity to increase the breadth and depth of the theoretical and ethical base for health care practice, enhance and expand competence, prepare for role specialization and contribute to the discovery of new nursing knowledge.
4. To provide an educational environment of respect within which students may evolve as broadly educated, responsible and accountable professionals dedicated to the principles of lifelong learning.
5. To build a foundation for graduate education.
6. To ethically serve diverse communities as health care experts, leaders, consultants, and advocates of resources.

Undergraduate Degrees

The College of Nursing and Health Sciences offers course work leading to the following undergraduate degrees:

Bachelor of Science in Nursing (BSN)
Bachelor of Science in Health Sciences (BSHS)

Undergraduate Courses

All course descriptions are located in course descriptions.

Bachelor of Science in Nursing

Nursing, BSN

The philosophical foundations of the Texas A&M University-Corpus Christi Baccalaureate Nursing Program are based on the belief that caring is the essence of nursing. Students are unique individuals with differing backgrounds, needs, and interests, and have the freedom and responsibility to make considered choices. Nursing faculty subscribe to the belief that professional nurses

must have a solid foundation in the arts, sciences, and humanities that provides a reservoir of knowledge from which to draw when making critical clinical decisions in the roles of care provider or care coordinator (A.A.C.N., Essentials of Baccalaureate Nursing, 2008). To this purpose, baccalaureate students complete 63 semester hours in the liberal arts. In addition, they complete 57 semester hours in the nursing courses. Total program hours = 120

The Nursing Program provides a Bachelor of Science in Nursing degree through two options:

1. Generic baccalaureate nursing education for the individual who wishes to earn the BSN degree while preparing to become a Registered Nurse (RN).
2. RN-BSN Completion for the RN who wishes to build upon previous education and earn a baccalaureate degree.

Student Learning Outcomes

Students will:

- Incorporate the philosophy, "Caring is the Essence of Nursing" into nursing practice.
- Practice nursing utilizing the nursing process and other systematic approaches derived from the sciences and liberal arts to promote optimum health for individuals, families, and communities from diverse populations.
- Communicate and collaborate purposefully, using creative approaches that acknowledge interdependent roles and relationships.
- Demonstrate leadership through the application and utilization of theories for the improvement and enhancement of care and health status.
- Display critical thinking and independent decision-making that utilize and apply theory and research in practice.
- Show awareness of political, ethical, and social issues; accountability for professional practice and commitment for continuing professional development.
- Accept nursing leadership roles that respond to a changing society and health care delivery system.

The program is accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW, Suite 530, Washington, DC 20036-1120, telephone (202) 887-6791 for a term of ten years until June 30, 2016 and the Texas Board of Nursing,333 Guadalupe St, Suite #3-460, Austin, TX 78701 telephone (512) 305-7400. The objectives of the program are published in the *College of Nursing and Health Sciences Student Handbook*, which may be found at http://conhs.tamucc.edu/.

The Texas Board of Nursing requires disclosure of criminal history or disciplinary action and an FBI background check before licensure is granted. In order to promote the safety of the clients in their care and to meet the requirements of the BON and affiliated clinical agencies, students will complete the background check and be deemed eligible to take the licensing exam by the Texas Board of Nursing before acceptance to the program is granted. See the TBON web site http://www.bne.state.tx.us for the statutes and rules regulating licensure.

Admission Requirements and Procedures

A. Generic (Basic) Option:

1. For those seeking entrance into the nursing major, the admission procedure is competitive. Admission to the program is three times a year – fall, spring and summer. Three track options are available – generic, accelerated, and eLine. Fall admissions include the accelerated track (students who have already received a bachelor degree) as well as the generic option. eLine is an online option. *Texas A&M University-Corpus Christi sophomores and transfer students will be accepted based on their grade point average for the last 60 credit hours. No "D" or "F" grades will be accepted for transfer credit. Science courses may not be older than 7 years. Those students seeking admission to the nursing program must contact the College of Nursing and Health Sciences to obtain materials to complete the application process. The application process is as follows:*

a. Students must complete an online application to the College of Nursing and Health Sciences using Nursing CAS (see College of Nursing and Health Sciences web page for admission deadlines application procedure http://conhs.tamucc.edu/.) If the student is not already enrolled at Texas A&M University-Corpus Christi, the student must also apply to the University for admission. Admission to the University **DOES NOT** constitute admission to the nursing program.
b. The HESI A2 with critical thinking scores must be sent to the CONHS during the application period. (see college web page for information http://conhs.tamucc.edu)
c. The admissions committee meets three times a year to review applications and to make recommendations.
d. Notification of the results of the admission review is mailed to students. Admission to the program is conditional pending submission of the background check, proof of vaccination status, and possession of a current CPR card.
e. Pre-nursing courses may be continued in the spring and summer semester prior to the junior year. A GPA of 3.0 must be maintained during this period and is conditional to final admission.

2. Minimal overall GPA for admission to the major is 3.0. Freshmen generally declare pre-nursing as their intended course of study. Prior to registration, students need to contact the nursing academic advisor to assist in degree planning.
3. Freshmen and sophomores enrolled as pre-nursing students must complete the Core Curriculum Program (42 semester hours) and required science support courses prior to admission to the nursing major. Additionally, validation or course work in computer literacy is required for admission to the major. Please see "University Core Curriculum Programs" in this catalog for information on Core Curriculum Program requirements. See "Degree Requirements" in the "Undergraduate Programs" section of this catalog for information on computer literacy requirements. In the areas of science, mathematics, and social science, pre-nursing students should select the following Core Curriculum Program and support courses:
    - BIOL 2420 - Principles of Microbiology
    - CHEM 1411 - General Chemistry I
    - PSYC 2301 - General Psychology
    - BIOL 2401 - Anatomy and Physiology I
    - BIOL 2402 - Anatomy and Physiology II
    - BIMS 3401 - Pathophysiology or NURS 4322 - Health Alterations
    - PSYC 2314 - Lifespan Developmental Psychology
    - MATH 1442 - Statistics for Life
    - NURS 3342 - Use of Pharmacology Principles

    Students should consult the academic advisor and/or faculty advisor for additional information on Core Curriculum Program and support courses, including the sequence in which the courses should be taken. To lighten the academic load, it is suggested that some of these courses be taken in the summer sessions. Science courses may not be older than 7 years for generic BSN students.

4. A personal interview with the applicant may be requested.
5. Transfer students from another nursing school who have completed nursing courses over 2 years ago must validate completed course work or repeat the course. Additionally, students should provide nursing course descriptions from the college catalog and the course syllabi (must have at least the course objectives, course outline, and a list of textbooks used) from the transferring college/school of nursing. Students should also submit a letter from the Dean or Director of the transferred nursing program indicating they are in good standing and eligible to return. Any student needing to validate courses must meet with the academic advisor who will forward materials to the Associate Dean.
6. Post-Baccalaureate students may progress through a compressed sequence of courses (Sequence in College of Nursing & Health Sciences Student Handbook http://conhs.tamucc.edu/shb/.)
7. Students may only apply for one track into the program. The students choice must be designated on the nursing CAS application.

B. RN-BSN Completion Option

1. This option is designed for RNs who have completed one of two types of Nursing Programs:

- Completion of a nationally accredited associate degree nursing program.
- Completion of a nationally accredited diploma school of nursing program.

For students who are graduates of a non-accredited program, Texas A&M University-Corpus Christi College of Nursing and Health Sciences honors the Texas Nursing Articulation Model, the first voluntary statewide model for transitioning from one level of education to another without repetition in learning. The assumptions of the model that apply to graduates from nonaccredited programs are the following: "5. Articulation without testing is an educationally and professionally sound practice based upon the accepted competencies; 6. Texas nurses seeking educational mobility demonstrate minimal competence on the basis of an official transcript(s) and a valid Texas license(s). (The Texas Nursing Articulation Model 1997-2000).

2. A student receives 30 hours of credit from previous nursing courses, which is held in escrow until the student has successfully completed 12 hours of nursing courses.
3. The application process is as follows:
    a. Provide evidence of current unencumbered Texas registered nurse license.
    b. Attend a personal interview if requested.
    c. Transfer credit if grade is C or better.
    d. Have a grade point average of 2.5 (4.0 scale) or better in the last 60 hours of course work.

    Students who are currently enrolled in their last semester of an associate nursing degree program may apply for admission. These students must take and pass the state board examination on the first date they are eligible. State board results are to be sent to the nursing academic advisor.

    Associate degree students receiving conditional admission status may take up to 5 semester hours of selected nursing courses prior to full status admission. These courses include: NURS 4318 - Nurse as Research Consumer (3), NURS 4250 - Professional Nursing Issues - Generic & RN/BSN (2), or NURS 3435 - Health Assessment (4)

Program Requirements for All Undergraduate Students

A. The Texas Department of State Health Services has specific immunization requirements for students involved with direct patient contact. These requirements, as stated in the Texas Administrative Code, Title 25, Part 1, Chapter 97, Subchapter B, Rule 97.64, include the following:

    1. "Students cannot be provisionally enrolled without at least one dose of measles, mumps, and rubella vaccine if direct patient contact will occur during the provisional enrollment period."
    2. "Polio vaccine is not required. Students enrolled in health-related courses are encouraged to ascertain that they are immune to poliomyelitis"
    3. "One dose of tetanus-diphtheria toxoid (Td) is required within the last ten years."
    4. "Students who were born on or after January 1, 1957, must show, prior to patient contact, acceptable evidence of vaccination of two doses of measles containing vaccine
    5. "Students may be provisionally enrolled for up to one semester to allow students to attend classes while obtaining the required vaccines and acceptable evidence of vaccination administered since January 1, 1968."
    6. "Students must show, prior to patient contact acceptable evidence of vaccination of one dose of rubella vaccine."
    7. "Students born on or after January 1, 1957, must show, prior to patient contact, acceptable evidence of vaccination of one dose of mumps vaccine."
    8. "Students shall receive a complete series of hepatitis B vaccine prior to the start of direct patient care or show serologic confirmation of immunity to hepatitis B virus." (Additionally, the Nursing Program requires students to receive a complete series of hepatitis A vaccine prior to the start of direct patient care or show serologic confirmation of immunity to hepatitis A virus.)
    9. "Students shall receive two doses of varicella vaccine unless the first dose was received prior to thirteen years of age."

For additional information, please see the Texas Administrative Code, Title 25, Part 1, Chapter 97, Subchapter B, which is accessible at http://www.sos.state.tx.us/tac/index.shtml. Please note that some hospitals have stricter requirements than the state minimum standards.

Rule 97.65 lists the following exceptions to the immunization requirements:

1. "Serologic confirmations of immunity to measles, rubella, mumps, hepatitis A, hepatitis B, or varicella, are acceptable. Evidence of measles, rubella, mumps, hepatitis A, or hepatitis B, or varicella illness must consist of a laboratory report that indicates either confirmation of immunity or infection."
2. "A parent or physician validated history of varicella disease (chickenpox) or varicella immunity is acceptable in lieu of vaccine. A written statement from a physician, or the student's parent or guardian, or school nurse, must support histories of varicella disease."

(Immunizations are available for a nominal fee at the student health clinic for currently enrolled students and from the Public Health Department.)

B. Results of tuberculosis screening are required annually.

C. A copy of the student's current certification in Basic Life Support (BLS) for Health Care Providers is required annually.

D. All Students are required to complete a criminal background check through the Texas Board of Nursing before acceptance into the program.

E. Students are required to purchase professional liability coverage through the University. Fees for this coverage are included in the fees paid at the time of registration at the beginning of each academic year. (See *College of Nursing & Health Sciences Student Handbook http://conhs.tamucc.edu/shb/* .

F. Medical insurance coverage is strongly recommended. The University and affiliating clinical agencies accept no responsibility for medical care sought as a result of accidents/incidents occurring during the course of nursing instruction or clinical assignments (See *College of Nursing & Health Sciences Student Handbook*: http://conhs.tamucc.edu/shb/.

G. Students forced to interrupt their regular rotation for personal or academic reasons may be reinstated on a "place available" basis. Students must write a letter asking for readmission to the program. The academic advisor is available for assistance with this process. The Admissions and Progression Committee may admit a student conditionally if there is evidence of extenuating circumstances.

Grading Policies: Progression, Retention and Dismissal

The following requirements refer to grading policies.

1. A scholastic grade point average of 2.25 is a minimum requirement in the upper division nursing courses designated for the Bachelor of Science in Nursing. A minimum grade of C is required in all courses in the nursing major.
2. If a student earns a grade of D, F, or W in a nursing course, that course must be repeated. A course in which a grade of less than C (i.e., D, F, or W, Withdrawal) was earned may be repeated only once.
3. A student who has earned a grade of less than C (i.e., D, F, or W, Withdrawal) in two nursing courses or who has earned a grade of less than C (D, F, or W, Withdrawal) twice in the same nursing course will be dismissed from the nursing program.
4. Students receiving a grade of D, F, or W (Withdrawal) or I (Incomplete) in a nursing course may not progress to courses for which that course is a prerequisite.
5. Administration and faculty reserve the right to dismiss students without previous warning for unsafe and/or unprofessional behavior. The conduct of nursing students should meet ethical standards as defined by American Nurses Association (ANA) in the *Code of Ethics for Nurses*. Personal integrity is reflected in professional judgments.

Consequently, the College of Nursing and Health Sciences reserves the right to dismiss students from the program for unprofessional or unsafe behavior. (See *College of Nursing and Health Sciences Student Handbook* for further examples and to review the Academic Honesty and Professional Integrity Policy http://conhs.tamucc.edu/shb/.)

6. Following dismissal, students may apply for reinstatement to the nursing program. Reinstatement is competitive and based upon space availability.
7. Students must meet the standards for minimal performance and progression established by Texas A&M University-Corpus Christi (see the catalog section on Academic Policies and Regulations).
8. In order for students to progress through the program, they must be in compliance with immunizations/CPR and Hospital Orientation regulations. (See *College of Nursing and Health Sciences Student Handbook* for consequences for noncompliance to these policies.)
9. Students must complete the University Core Curriculum Program. (See "University Core Curriculum Programs" in this catalog). See "General Education Requirement" in the "Undergraduate Programs" section of this catalog for information on ways in which transfer students can fulfill requirements. In addition to the core curriculum requirements, students must also take the required support courses, which are listed earlier in the nursing section of this catalog.

Advising

Every effort has been made to assure the accuracy of the information in this catalog. However, information is subject to change without notice. Therefore, students must consult with their Nursing Program advisors each semester prior to registration. Transfer students must meet with their advisors.

Students in the nursing majors are assigned a faculty mentor by the Dean of the College of Nursing and Health Sciences. If for any reason the faculty mentor-student assignment is not effective, the student or the faculty member can request a change in assignment. Freshmen and sophomore students pursuing the pre-nursing curriculum are also assigned a nursing faculty mentor. The academic advisor for the College of Nursing and Health Sciences is available for advisement. Students must make appointments for advisement.

RN-MSN Option

See the Nursing section of the Graduate catalog.

Graduation Requirements

A. Generic (Basic) Option

Degree Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
B.	First-Year Seminars (when applicable)*	(2)
C.	Nursing Support Courses**	20
D.	Upper-Division Nursing Major	58

Total 120 (122)

*First Year Seminars

First-Year Seminars or Electives

**Any courses from the Core Curriculum Program that are four hours may only apply three hours towards the Core Curriculum Program requirement. The additional one hour laboratory requirement will be added in the "Nursing Support Courses."

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

B. Generic Courses

Generic (Basic) Option

The numbers of weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the semester hours (1 lab hour = 3 contact hours.) Additional laboratory work may be required to complete the assignments. All courses involving labs will require appropriate fees.

- NURS 3318 - Nurse as therapeutic Communicator **3 sem. hrs.**
- NURS 3435 - Health Assessment **4 sem. hrs.**
- NURS 3614 - Fundamentals of Nursing Care **6 sem. hrs.**
- NURS 3548 - Nursing Care of Children and their Families **5 sem. hrs.**
- NURS 3550 - Nursing Care of Parents/newborns **5 sem. hrs.**
- NURS 3628 - Nursing Care of Adults I **6 sem. hrs.**
- NURS 4318 - Nurse as Research Consumer **3 sem. hrs.**
- NURS 4564 - Nursing Care of Psychiatric Clients **5 sem. hrs.**
- NURS 4628 - Nursing Care of Adults II **6 sem. hrs.**
- NURS 4660 - Nursing Care of Community Health Clients **6 sem. hrs.**
- NURS 4370 - Nurse Coordinating Care **3 sem. hrs.**
- NURS 4470 - Professional Transitions **4 sem. hrs.**
- NURS 4150 - Professional Nursing Issues II **sem. hrs.**

C. RN-BSN Completion Option

Degree Requirements

	Sem. Hrs.
A. Transfer Coursework*	93
B. Upper-Division Nursing Coursework	33
	Total 126

* Students must have all Core Curriculum Program and supporting courses completed before admittance into the program; this includes a completed Core Curriculum Program, 18 hours of General Education and Core Curriculum and 30 hours of Nursing Validation/Articulation.

RN-BSN Courses

- NURS 3435 - Health Assessment - RN/BSN **4 sem. hrs.**
- NURS 4250 - Professional Nursing Issues - Generic & RN/BSN **2 sem. hrs.**
- NURS 4318 - Nurse as Research Consumer -RN/BSN **3 sem. hrs.**
- NURS 4320 - Principles and Concepts of Patient Education - RN/BSN **3 sem. hrs.**
- NURS 4322 - Health Alterations - RN/BSN **3 sem. hrs.**
- NURS 4324 - Nurse as Caregiver - RN/BSN **3 sem. hrs.**
- NURS 4465 - Care of the Individual within a Family -RN/BSN **4 sem. hrs.**
- NURS 4560 - Nursing Care of Community - RN/BSN **5 sem. hrs.**
- NURS 4671 - Leadership/management - RN/BSN **6 sem. hrs.**

Note:

* **Students must have all core curriculum and supporting courses completed before admittance into the program.**

Bachelor of Science in Health Sciences

Health Sciences, BSHS

The Bachelor of Science in Health Sciences (BSHS) prepares graduates for a variety of career opportunities in the health care field by providing the management skills necessary for success. By designing a degree plan using electives in such areas as computer science, geographic information systems, mathematics, business administration, accounting, international business, and information systems, the student may pursue specific areas of interest. Students can also use electives to design a degree plan that will satisfy entrance requirements for admission to professional schools such as medicine, dentistry, physical therapy, public health, law, and business.

Student Learning Outcomes

Students will:

- Demonstrate a thorough understanding of the theoretical and practical aspects of the health care delivery system from a historical, comparative, economic, cultural, and ethical perspective.
- Employ a variety of business and management skills and techniques including marketing, financial management, law, and information management to effectively and efficiently advance the goals of the organization.

- Demonstrate creativity in defining, negotiating, and solving problems.
- Communicate and educate, using the most current information and communication technology.

Program Requirements for Health Sciences

All of the following requirements MUST be completed and turned into the appropriate personnel located in IH 317 BEFORE the practicum is begun. Students who do not have the following completed will not be able to participate in HLSC 4680.

Joint Commission, the health care institutional accrediting body, requires care' giving institutions to follow specific guidelines for staff and students including but not limited to

- 2008/2009 Standard: IC.1.10 1. An organization wide IC program is implemented.
- 2008 Standard IC. 1.10 The risk of development of a health care-associated infection is minimized through an organization wide infection control program.
- 2005 Standard HR.1.20 for staff, students, and volunteers who work in the same capacity as staff who provide care, treatment, and services, at EP 5 states criminal background checks are verified when required by law and regulation and organization policy (http://www.jointcommission.org/).

The Texas Department of State Health Services has specific immunization requirements for students involved with direct patient contact and are stated in the Texas Administrative Code, Title 25, Part 1, Chapter 97, Subchapter B, Rule 97.64, include the following: (for additional information, please see the Texas Administrative Code, Title 25, Part 1, Chapter 97, Subchapter B, which is accessible at http://www.sos.state.tx.us/tac/index.shtml.

Direct patient care is defined by DSHS, for purposes of this rule, as students whose course work involves contact with patients in a manner that can result in direct contact with blood, blood-contaminated body fluids, or other bodily fluids from the patient. This definition is available at http://www.dshs.state.tx.us/immunize/docs/school/hepB_Policy.pdf

HLSC student practicum experiences are to assist the student in meeting program goals as identified above. Direct patient care that would involve contact with patient body fluids is neither warranted nor appropriate.

To meet the organizational requirements and facilitate student progress toward goal attainment through practica experiences in a health care system, the following are required prior to beginning the practica experience:

- DRIVERS LICENSE
  - Date Verification (No Numbers please)
- HEALTH INFORMATION
  - Date of Last PPD (Within The Past Year)
  - Hepatitis B Vaccine Confirmation Date
  - Declined Date of Hepatitis B
  - MMR Immunizations
  - Varicella Titer Or Positive History Date
- EDUCATION
  - City Wide Orientation Completion Date AND/OR Hospital Orientation Date
- BACKGROUND INVESTIGATION
  - Social Security Number Date Verification (No SSN's to be released)
  - Criminal Search Date: Up to 7 years, or Up to 5 searches
  - Date of HHS/OIG/GSA List of Excluded Individuals
  - Date of Texas HHS List of Excluded Individuals
  - Date of Violation Sexual Offender & Predator Registry

Verification of completion of the above must be presented by the student to the personnel in IH 317 prior to beginning HLSC 4680 - Practicum.

BSHS Graduation Requirements

Degree Requirements

		Sem. Hrs.
A.	Transfer Coursework*	84
B.	Health Science Major	36
		Total 120

* Students must have all core curriculum and supporting courses completed before admittance into the program. This includes a completed Core Curriculum, 18-22 hours of a specialization area, and 14-18 hours of other electives.

Health Science Major

- HLSC 3300 - The Health Care System **3 sem. hrs.**
- HLSC 3310 - Epidemiology **3 sem. hrs.**
- HLSC 3320 - Health Care Marketing **3 sem. hrs.**
- HLSC 3330 - Financial Management in Health Care **3 sem. hrs.**
- HLSC 3340 - Quantitative Methods in Health Care **3 sem. hrs.**
- HLSC 3350 - Information Systems and Technology in Health Care **3 sem. hrs.**
- HLSC 3370 - Complementary and Alternative Medicine **3 sem. hrs.**
- HLSC 4300 - Management and Organization Behavior in Health Care **3 sem. hrs.**
- HLSC 4310 - Health Law **3 sem. hrs.**
- HLSC 4340 - Quality Management and Evaluation in Health Care **3 sem. hrs.**
- HLSC 4680 - Practicum **6 sem. hrs.**

Total: 36 hrs.

Specialization Area

Students may complete a designated minor in the following areas:

- Geographic Information Systems **22 sem. hrs.**
- Computer Science **22 sem. hrs.**
- Mathematics **18 sem. hrs.**
- Business Administration **18 sem. hrs.**
- Accounting **18 sem. hrs.**
- Economics **18 sem. hrs.**
- International Business **18 sem. hrs.**
- Management Information Systems **18 sem. hrs.**

With approval, students can design a degree plan with an interdisciplinary area of specialization (22 hrs) or use electives to satisfy pre-professional school requirements.

Minor

Health Science Minor

Students majoring in other academic fields who wish to earn a minor in Health Science must complete the following courses:

- HLSC 3300 - The Health Care System **3 sem. hrs.**
- HLSC 3310 - Epidemiology **3 sem. hrs.**
- HLSC 3350 - Information Systems and Technology in Health Care **3 sem. hrs.**
- HLSC 4310 - Health Law **3 sem. hrs.**
- HLSC Electives **6 sem. hrs.**

Total: 18

College of Science and Engineering

College of Science and Engineering

Degree Programs

- Atmospheric Sciences, BS
- Biology, BS
- Biomedical Sciences, BS
- Chemistry, BS
- Computer Science, BS
- Electrical Engineering, BS
- Electrical Engineering Technology, BS
- Environmental Science, BS
- General Science, BS
- Geographic Information

Minors

- Atmospheric Sciences Minor
- Biology Minor
- Chemistry Minor
- Computer Science Minor
- Electrical Engineering Technology Minor
- Environmental Science Minor
- Geographic Information Science Minor
- Geography Minor
- Geology Minor

Teaching Certificates

- Biology, BS — Grades 7-12 Life Science Education Concentration
- Chemistry, BS — Grades 7-12 Physical Science Education Concentration
- Computer Science, BS — Grades 8-12 Computer Science Education Concentration
- Environmental Science, BS — Grades 4-8 Science Education Concentration

Science, BS
- Geology, BS
- Mathematics, BS
- Mechanical Engineering, BS
- Mechanical Engineering Technology, BS
- Physics, BS

- Mathematics Minor
- Mechanical Engineering Technology Minor
- Physics Minor

Post-Baccalaureate Certificates

- Geomatics Certificate
- Geographic Information Science Certificate
- Clinical Laboratory Science Certification

- Interdisciplinary Studies, BSIS — Grades 4-8 with Mathematics Certification
- Mathematics, BS — Grades 7-12 Mathematics Education Concentration
- Mathematics, Grades 7-12 Teacher Certification Without a Mathematics Major

The College of Science and Engineering offers undergraduate and graduate degrees in basic and applied sciences to support the technical requirements of our post-industrial society. In addition, the College provides many courses supporting the science literacy requirements of non-majors. Specialized course offerings and degree sequences support Education majors seeking science and mathematics teaching certifications. The office of the Dean is located in Center for Instruction, Suite 350.

Purpose Statement

The College of Science and Engineering is committed to maintaining an academic environment in which students may develop as productive citizens who will contribute to society. In this regard, the faculty recognizes the need to prepare individuals who have an understanding of the foundations and principles of their respective fields and professions. The administration of the College encourages and supports the faculty in meeting their responsibility to continue their professional development and to contribute to the University, the community, and their chosen fields.

In order to accomplish this purpose, the administration and faculty of the College share the following objectives:

1. To provide the opportunity for each student to assimilate and apply the body of knowledge required by a chosen discipline through a clearly defined sequence of courses.
2. To develop each student's ability to think critically and to communicate effectively through creative and challenging educational experiences.
3. To encourage each student to become a well-rounded, educated person through exposure to other disciplines within the University.
4. To contribute to the greater body of knowledge in specialized disciplines through research, scholarship, and professional endeavor.
5. To serve as a professional and educational resource to the local area and larger community by providing consultation and special services.

Centers for Research and Continuing Education

The College of Science and Engineering is the academic home to several major research units, which are physically housed in the Natural Resources Center on the west end of campus.

The National Spill Control School, established in 1977, promotes education on environmental issues. The primary focus of its programs is in presenting continuing education short courses on-campus or on-site for personnel involved in spill prevention and the control of oil, hazardous materials, and hazardous waste. Other areas of interest include allied safety concerns and improving knowledge in these fields through research and targeted education programs.

The Center for Coastal Studies, established in 1984, is an interdisciplinary research unit of the College of Science and Engineering at Texas A&M University-Corpus Christi. The main purpose of the Center is to perform coastal ecosystem research and contract studies on the Padre/Mustang barrier island chain, the Laguna Madre, and the Nueces/Corpus Christi Bay Complex. Currently, cooperative agreements with several branches of the U.S. Fish and Wildlife Service, and the Texas Parks and Wildlife Department, both located on-campus, provide research and practical training experience for Texas A&M University-Corpus Christi science students.

The Conrad Blucher Institute for Surveying and Science, dedicated in 1987, encourages scientific research and education, with a special emphasis on surveying. To provide for the unique needs of Texas surveyors, the Institute is developing strong continuing education and research programs in surveying. As funds and resources permit, the Institute will also promote research and education in all of the supporting sciences. Science education is a vital base for surveyors and scientists. The Institute supports activities to improve these areas and help create professional and student interest in surveying and science.

The Center for Water Supply Studies was established in 1991. The Center provides science students with the opportunity to pursue research in the broad areas of water resources. The Center also provides regional governmental entities with an academic organization through which studies of issues relating to water supply may be carried out.

The Center for Information Assurance, Statistics, and Quality Control (CIASQC) leverages the skills of university experts working together with community leaders to meet the increasing demands for secured information environments and improved quality of education, government, health care and business. The mission of CIASQC is to become the primary South Texas and Gulf of Mexico resource of information assurance, modeling, statistical and quality improvement services, and software engineering for the education, government, health care, and private sectors.

In 2000, Texas A&M University-Corpus Christi received a $46 million pledge from publisher Ed Harte to create the Harte Research Institute for Gulf of Mexico Studies. The Institute supports the Ph.D. programs in Coastal and Marine System Science and Marine Biology offered through the College of Science and Engineering.

Science and Engineering Degree Programs

The College of Science and Engineering offers course work leading to the following Bachelor of Science, Master of Science, and Doctor of Philosophy degrees:

Biology BIOL	BS, MS
Biomedical Science BIMS	BS
Chemistry CHEM	BS
Coastal and Marine System Science CMSS	PhD
Computer Science COSC	BS, MS
Electrical Engineering Technology ENTC	BS
Environmental Science ESCI	BS, MS
Geographic Information Science GISC	BS
Geography GEOG	(minor only)
Geology GEOL	BS

Geospatial Surveying Engineering GSEN	MS
Fisheries and Mariculture FAMA	MS
Marine Biology MARB	MS, PhD
Master's International MI	MS
Mechanical Engineering MEEN	BS
Mechanical Engineering Technology ENTC	BS
Physics PHYS	(minor only)

Science, Mathematics and Technology Education SMTE (teacher certification programs only, in 4-8 level Science, 8-12 level Life Science, 8-12 level Physical Science, 8-12 level Computer Science, and 8-12 level Mathematics)*

See the university Graduate Catalog for information on graduate programs.

*A teacher certification program in 4-8 level Mathematics is available through the College of Education.

Undergraduate Programs

A minimum of 120 semester hours of credit are required. Most curricula require more. Please consult the academic advisor and/or faculty advisor for specific details.

Specific Requirements for the College of Science and Engineering

Each student entering the College must comply with the curriculum requirements of the University Core Curriculum Program and University degree requirements. Transfer students can meet some or all of these requirements by transfer of courses/core curricula taken and completed prior to entry. Please consult the University Core Curriculum Program advisors.

Upper-Division Hours

A minimum of 45 semester hours of upper-division credit (courses numbered in the 3000 and 4000 series) is required.

Residence Requirements

A minimum of 36 hours of upper-division course work required for graduation must be successfully completed in residence at Texas A&M University-Corpus Christi to obtain a baccalaureate degree. A minimum of 12 hours of these 36 hours must be in the major. See "Degree Requirements" in the general section of this catalog for additional university requirements.

Grade-Point Average

A minimum cumulative grade-point average of 2.0 ("C") on a 4 point scale (4.0 = A) in all work taken and a minimum grade-point average of 2.25 in all courses in the major field of study taken at this University are required. For teacher certification, grade point average requirements are higher. Refer to "Teacher Certification Programs" in this section.

Directed Independent Study (DIS)

Each area of the College offers courses in directed independent study. These courses appear with 4X96 numbers in the course offerings of each discipline and may carry variable credit depending upon the course design. The student must register for a specific number of hours according to a course plan approved by the instructor, the Department Chairperson, and the Dean in advance of registration. The 4X96 courses may be repeated for credit.

Graduation Under a Particular Catalog

In accordance with general University policy, the student may receive the baccalaureate degree upon satisfying the requirements of the chosen degree area in the College of Science and Engineering, upon satisfying the requirements of the catalog under which credit was first earned in this university, or upon satisfying the requirements of the catalog governing any subsequent year in which credit was earned as a student in the university. In the case of courses which are no longer offered, the faculty will prescribe substitutions. Students who do not complete the degree to which they have been admitted within 6 years will be subject to review and may, if necessary, be required to update knowledge and meet catalog requirements currently in effect.

Teacher Certification Programs

Students seeking state certification to teach science and mathematics in Texas schools must major in an approved teaching field and complete all major study and related requirements for a baccalaureate degree in that field. They must also comply with teacher certification requirements. Prospective candidates for teacher certification are strongly urged to obtain current certification information from the College of Education prior to formulating a degree plan or pursuing degree-specific course work.

Study programs at this university leading to teacher certification in science and mathematics are:

4-8 level Science
7-12 level Life Science
7-12 level Physical Science
8-12 level Computer Science
4-8 level Mathematics (College of Education)
7-12 level Mathematics

Major study and course requirements in teaching fields are detailed in the Science, Mathematics and Technology Education (SMTE) section of this catalog and the College of Education section for the baccalaureate degree leading to 4-8 level Mathematics certification. For a complete listing of the available certification plans and details of the requirements for obtaining a teaching certificate, please consult the College of Education section of this catalog.

Teacher preparation is considered to be an integral role of the College; therefore, all certification requirements are integrated into the degree requirements for those who desire teacher certification.

In addition to the academic specialization discussed above, teacher certification programs require the completion of general education courses, including the core curriculum, and professional development courses. A student who seeks a teaching certificate should contact a Certification Officer in the College of Education about requirements and procedures that must be met to obtain the certificate. The professional development sequence of required courses must be taken in a specific order and it is recommended that students contact the College of Education early in their academic careers for specific details on these courses.

Grade Point Average for Students Seeking Middle School (Grades 4-8) and/or High School (Grades 7-12) Certification

A minimum grade point average of 2.50 (4.0 = A) in all work attempted, a minimum grade point average of 2.75 in all science, math, or specialization areas, and no grade below "C" in any science or math course on a student's degree plan and/or education courses within the professional education block of courses are required. (See Requirements for Programs Leading to Teacher Certification)

Alteration of a Certification Plan

Any amendment to a degree plan originally filed must be approved by the student's academic advisor, the Department Chair, the Dean of the College of Science and Engineering, and the Certification Officer of the College of Education for the degree to be granted.

Minors

Course requirements for a minor are determined by the faculty in each corresponding academic discipline, and variations in the minor requirements are subject to the approval of the faculty in that area. Therefore, the student should consult the description of the minor in the section of the catalog dedicated to that discipline. Questions about the minor course work should be directed to the appropriate advisor within the minor discipline.

Contact Information

College of Science and Engineering, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412-5806. Phone: (361) 825-5777. Web: http://www.sci.tamucc.edu/

School of Engineering and Computing Sciences

Bachelor of Science

Computer Science, BS

The computer science degree program is applied in nature and is designed to prepare students to begin or advance computing careers in business, industry, government, or education, or to pursue further study in computer science. The curriculum is thorough, current, and oriented toward the technical competencies required of a modern computer professional with emphasis on the development, evaluation, and integration of software systems.

Student Learning Outcomes

Students will:

- have a thorough understanding of personal and professional ethics;
- effectively communicate computing problems and solutions in both oral and written formats;
- have demonstrated the ability to apply mathematical knowledge to software design problems;
- have demonstrated the ability to analyze, design and implement software systems using accepted software engineering principles;
- be able to design, conduct, and evaluate experiments using appropriate data sets to test software under development;
- have demonstrated the ability to effectively function on a team using current software engineering tools and techniques to design and implement software systems;
- have received a broad-based education that allows them to understand the global implications and needs of software systems and engage in continuing professional development; and
- have demonstrated a basic understanding of core computer science topics.

The requirements for a Bachelor of Science degree in Computer Science include a total of 120-125 semester hours. The total is divided among the following groups: University Core Curriculum, Major Curriculum, and Electives.

There are five options for the degree, the Computer Information Systems Option, the Systems Programming Option, the Computer Game Programming Option, the Cyber Security and Infrastructure Option, and the Computer Science Education Option. Besides the University Core Curriculum, all options also share a common major curriculum that consists of 38 semester hours in computer science and mathematics.

For information about the minor, please see the Computer Science Minor section

Curricular Requirements for Computer Science

A summary of the required hours follows:

		Sem. Hrs.
I.	First-Year Seminars (when applicable)	(2)
II.	Core Curriculum Program	42
III.	Major Curriculum for All Options	38
IV.	Courses Specific to Each Option	40-45
		Total Hours (minimum) 120-125

The specific requirements for each option of the Bachelor of Science degree in Computer Science follow:

O. First-Year Seminars (when applicable) (2)

Full-time, first-year students are required to take

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

I. Core Curriculum Program

(See "University Core Curriculum Programs ")

Specific requirements for this degree:

- MATH 2413 - Calculus I **4 sem. hrs.** (lecture component)
- Other **39 sem. hrs.**

Subtotal: 42

II. Major Curriculum for All Options

- COSC 1435 - Introduction to Problem Solving with Computers I **4 sem. hrs.**
- COSC 1436 - Introduction to Problem Solving with Computers II **4 sem. hrs.**
- COSC 2334 - Computer Architecture **3 sem. hrs.**
- COSC 2437 - Data Structures **4 sem. hrs.**
- COSC 3336 - Introduction to Database Systems **3 sem. hrs.**
- COSC 3346 - Operating Systems **3 sem. hrs.**
- COSC 3370 - Software Engineering **3 sem. hrs.**
- COSC 4354 - Senior Capstone Project **3 sem. hrs.**
- COSC 3400 - Skills for Computing Professionals **4 sem. hrs.**
- * MATH 2413 - Calculus I **4 sem. hrs.** (3-hour lecture component included in University Core)
- * MATH 2305 - Discrete Mathematics I **3 sem. hrs.**
- * MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**

Subtotal: 38

Note:

*These are supporting courses that can be used toward a minor in mathematics.

III. Courses Specific to Each Option 40-45

A. Computer Information Systems Option

The Computer Information Systems option is intended for those who want to develop and maintain information systems. In this option, the student learns to develop software systems and function as a computer professional. The student should choose electives to link the application-independent foundations and processes of computing and information systems to the needs of a particular application area.

The student should choose a minor in any other academic discipline that is appropriate as an applications area of computing. A minor consists of at least 18 semester hours and is determined by the faculty in the minor subject.

- COSC 2470 - COBOL Programming **4 sem. hrs.**
- COSC 3324 - Object-oriented Programming **3 sem. hrs.**
- COSC 4342 - Computer Networks **3 sem. hrs.**
- Approved upper-division Computer Science electives **12 sem. hrs.**
- Minor Courses **18 sem. hrs.**

Subtotal: 40

B. Systems Programming Option

This option is for those who intend to pursue careers as systems programmers or pursue advanced study in computer science. The degree program has an emphasis in system software programming and requires a one-year sequence in a physical science with a laboratory component.

- COSC 3324 - Object-oriented Programming **3 sem. hrs.**
- COSC 3353 - Survey of Programming Languages **3 sem. hrs.**
- COSC 4342 - Computer Networks **3 sem. hrs.**
- COSC 4348 - Systems Programming **3 sem. hrs.**
- Approved upper-division Computer Science electives **9 sem. hrs**.
- MATH 2414 - Calculus II **4 sem. hrs.**
- MATH 4328 - Discrete Mathematics II **3 sem. hrs.**

6 Hrs from:

- COSC 3385 - Numerical Methods **3 sem. hrs.**
- Upper division math course
- Approved Natural Science elective OR Upper division Natural Science elective

One of:

- COSC 4353 - Compiler Construction **3 sem. hrs.**
- COSC 4360 - Theory of Programming Languages **3 sem. hrs.**
- COSC 4370 - Models of Computation **3 sem. hrs.**

Choose laboratory science Group

You must take a one year science sequence that includes laboratory work. You can choose from any of the below groups.

Group 1

- CHEM 1411 - General Chemistry I **4 sem. hrs.** (3) (included in University Core)
- CHEM 1412 - General Chemistry II **4 sem. hrs.** (3) (included in University Core)

Group 2

- PHYS 2425 - University Physics I **4 sem. hrs.** (3-hour lecture component included in University Core)
- PHYS 2426 - University Physics II **4 sem. hrs.** (3-hour lecture component included in University Core)

Group 3

- BIOL 1406 - Biology I **4 sem. hrs.** (3-hour lecture component included in University Core)
- BIOL 1407 - Biology II **4 sem. hrs.** (3-hour lecture component included in University Core)

Group 4

- GEOL 1403 - Physical Geology **4 sem. hrs.** (3-hour lecture component included in University Core)
- GEOL 1404 - Historical Geology **4 sem. hrs.** (3-hour lecture component included in University Core)

Subtotal: 40

C. Computer Game Programming Option

This option is for those who intend to pursue careers as game programmers. The degree program has an emphasis on the skills necessary for computer game programming.

- COSC 2325 - Game Design **3 sem. hrs.**
- COSC 3324 - Object-oriented Programming **3 sem. hrs.**
- COSC 3325 - Game Programming **3 sem. hrs.**
- COSC 3385 - Numerical Methods **3 sem. hrs.**
- COSC 4325 - Advanced Game Programming **3 sem. hrs.**
- COSC 4328 - Computer Graphics **3 sem. hrs.**
- COSC 4330 - Introduction to Artificial Intelligence **3 sem. hrs.**
- COSC 4342 - Computer Networks **3 sem. hrs.**
- COSC 4343 - Algorithms **3 sem. hrs.**

3 hours of electives from the following courses:

- COSC 3353 - Survey of Programming Languages **3 sem. hrs.**
- COSC 3360 - Human-computer Interaction **3 sem. hrs.**
- COSC 4348 - Systems Programming **3 sem. hrs.**

One of:

- COSC 4353 - Compiler Construction **3 sem. hrs.**
- COSC 4360 - Theory of Programming Languages **3 sem. hrs.**
- COSC 4370 - Models of Computation **3 sem. hrs.**

Other Required Coursework:

- MATH 2414 - Calculus II **4 sem. hrs.**
- MATH 3311 - Linear Algebra **3 sem. hrs.**
- MATH 4328 - Discrete Mathematics II **3 sem. hrs.**
- PHYS 2425 - University Physics I **4 sem. hrs.** (3 hour lecture component included in University Core)
- PHYS 2426 - University Physics II **4 sem. hrs.** (3 hour lecture component included in University Core)

Subtotal: 45

D. Cyber Security and Infrastructure Option

This option is for those who intend to pursue careers in network administration, system administration, web administration and cyber security experts. The degree program has an emphasis on gaining these skills.

- COSC 2365 - System Administration I **3 sem. hrs.**
- COSC 2366 - Network Administration I **3 sem. hrs.**
- COSC 3351 - Internet Programming **3 sem. hrs.**
- COSC 3365 - Cyber Defense I **3 sem. hrs.**
- COSC 4342 - Computer Networks **3 sem. hrs.**
- COSC 4365 - System Administration II **3 sem. hrs.**
- COSC 3366 - Network Administration II **3 sem. hrs.**
- COSC 4368 - Cyber Defense II **3 sem. hrs.**
- Approved upper-division Computer Science electives **18 sem. hrs.**

Subtotal: 42

E. Computer Science Education Option

The Computer Science Education option is designed for those students seeking a Bachelor of Science Degree and a secondary teaching certificate (grades 7-12) in computer science. See the Science, Mathematics and Technology Education section of this catalog for a description of that option.

Computer Science courses 15 sem. hrs.

- COSC 3324 - Object-oriented Programming **3 sem. hrs.**
- COSC 4342 - Computer Networks **3 sem. hrs.**
- Approved upper-division Computer Science electives **3 sem. hrs.**

Two of:

- COSC 3351 - Internet Programming **3 sem. hrs.**
- COSC 3353 - Survey of Programming Languages **3 sem. hrs.**
- COSC 4360 - Theory of Programming Languages **3 sem. hrs.**

Professional Development and Reading Sequence 27 sem. hrs.

Subtotal: 42

IV. Total Hours (minimum): 120-128

Suggested Course of Study

Students should see their academic advisor in the College of Science and Engineering for the detailed Degree Plan for their chosen option. Below is a general guide that will help students begin to plan their course of study for the Systems Programming option. Students should visit the academic advisor and their faculty mentor every semester to ensure they are on schedule and have the required number of upper-division credits.

Freshman Year

Fall

- Triad **7 sem. hrs.**

- COSC 1435 - Introduction to Problem Solving with Computers I **4 sem. hrs.**
- MATH 2305 - Discrete Mathematics I **3 sem. hrs.**

Total Hours: 14

Spring

- Triad **7 sem. hrs.**
- COSC 1436 - Introduction to Problem Solving with Computers II **4 sem. hrs.**
- MATH 2413 - Calculus I **4 sem. hrs.**

Total Hours: 15

Sophomore Year

Fall

- COSC 2437 - Data Structures **4 sem. hrs.**
- MATH 2414 - Calculus II **4 sem. hrs.**
- COSC 2334 - Computer Architecture **3 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**

Total Hours: 14

Spring

- COSC 3336 - Introduction to Database Systems **3 sem. hrs.**
- University Core **6 sem. hrs.**
- COSC 3370 - Software Engineering **3 sem. hrs.**
- COSC 3400 - Skills for Computing Professionals **4 sem. hrs.**

Total Hours: 16

Junior Year

Fall

- COSC 3346 - Operating Systems **3 sem. hrs.**
- MATH 4328 - Discrete Mathematics II **3 sem. hrs.**
- COSC 3353 - Survey of Programming Languages **3 sem. hrs.**
- Core Science **4 sem. hrs.**
- University Core **3 sem. hrs.**

Total Hours: 16

Spring

- COSC 3324 - Object-oriented Programming **3 sem. hrs.**
- COSC Elective **3 sem. hrs.**
- COSC Elective **3 sem. hrs.**
- Core Science **4 sem. hrs.**
- University Core **3 sem. hrs.**

Total Hours: 16

Senior Year

Fall

- COSC 4328 - Computer Graphics **3 sem. hrs.**
- COSC 4342 - Computer Networks **3 sem. hrs.**

- Core Curriculum Program **6 sem. hrs.**
- Science Elective **4 sem. hrs.**

Total Hours: 16

Spring

- COSC 4354 - Senior Capstone Project **3 sem. hrs.**
- COSC 4348 - Systems Programming **3 sem. hrs.**
- COSC Elective **6 sem. hrs.**
- University Core **3 sem. hrs.**

Total Hours: 15

Electrical Engineering Technology, BS

Engineering Technology

The Engineering Technology Council of the American Society for Engineering Education defines Engineering Technology as the profession in which knowledge of mathematics and natural sciences gained by higher education, experience, and practices is devoted primarily to the implementation and extension of existing technology for the benefit of humanity. Engineering technology focuses on the applied aspects of science and engineering to prepare graduates for practice in product improvement, manufacturing, and engineering operational functions. Engineering technologists are suited for industries that deal with application, manufacturing, implementation, engineering operation, sales, and production.

The goal of Engineering Technology is to prepare well educated, highly skilled, and socially and professionally responsible engineering technologists from a diverse population of students to create productive and rewarding careers. Graduates will be well grounded in the fundamentals of engineering, mathematics, science, communications, and problem solving. To create continuous improvement, the program uses input from employers, alumni, and the Industrial Advisory Committee. Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012.

Contact Information

Engineering Technology, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412-5797. Phone: (361) 825-5849. Web: http://entc.tamucc.edu/

Electrical Engineering Technology

Electrical Engineering Technology graduates will exemplify the attributes previously described.

Student Learning Outcomes

- Practical, highly qualified engineering technologists.
- Employed in professional careers where they will solve problems using technical and hands-on skills developed during their studies.
- Able to apply their knowledge in the design, manufacture, sales, installation, operation and/or maintenance of complex, high-value systems.
- Socially and professionally responsible, possessing skills for life-long learning.

Graduates will have:

- an ability to select and apply knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities.
- an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.
- an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes
- an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives
- an ability to function effectively as a member or leader on a technical team.
- ability to identify, analyze, and solve broadly-defined engineering technology problems
- an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature
- an understanding of the need for and an ability to engage in self-directed continuing professional development
- an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity
- a knowledge of the impact of engineering technology solutions in a societal and global context
- a commitment to quality, timeliness and continuous improvement
- the application of circuit analysis and design, computer programming, associated software, analog and digital electronics, and microcomputers to the building, testing, operation, and maintenance of electrical /electronic(s) systems.

- the application of physics or chemistry to electrical/electronic(s) circuits in a rigorous mathematical environment at or above the level of algebra and trigonometry.

- the ability to analyze, design, and implement control systems, instrumentation systems, communications systems, computer systems, or power systems.

- the ability to apply project management techniques to electrical / electronic(s) systems

- the ability to utilize statistics/probability , transform methods, discrete mathematics, or applied differential equations in support of electrical/electronic(s) systems

Academic advisors and faculty mentors are available to assist students with their academic endeavors.

A summary of the hours necessary for graduation follows:

Sem. Hrs.

I.	Core Curriculum Program	42
	*First-Year Seminar	(2)
II.	Common Engineering Technology Courses	42
III.	Required Electrical Engineering Technology Courses	26
IV.	Technical Elective Block	10 - 12
		Total 120 - 122 (122 - 124)*

*Transfer students with 24 or more hours are exempt from First-Year Seminar.

The specific requirements for each aspect of the Bachelor of Science degree in Electrical Engineering Technology are indicated below. Students are encouraged to take the NCEES (National Council of Examiners for Engineering and Surveying) Fundamentals of Engineering (FE) exam during their senior year. The FE exam, http://ncees.org/exams/fe-exam/, is the first step in the process that leads to the P.E. license.

I. University Core Curriculum and Other General Education Requirements

See “University Core Curriculum Programs." Engineering Technology students are to take the following University Core Curriculum courses:

- MATH 2413 - Calculus I **4 sem. hrs.** (3-hour lecture component)
- PHYS 2425 - University Physics I **4 sem. hrs.** (3-hour lecture component)
- PHYS 2426 - University Physics II **4 sem. hrs.** (3-hour lecture component)

Note:

Engineering Technology students must take two courses in Physics even if the natural science portion of the core curriculum is satisfied by other means. Students transferring to A&M-Corpus Christi from other institutions may have various means for fulfilling the core curriculum. Please refer to the “General Education Requirement” in the catalog section entitled “Undergraduate Programs.”

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

II. Common Engineering Technology Courses

- MATH 2413 - Calculus I **4 sem. hrs.** (1 hour laboratory component)
- PHYS 2425 - University Physics I **4 sem. hrs.** (1 hour laboratory component)
- PHYS 2426 - University Physics II **4 sem. hrs.** (1 hour laboratory component)
- MATH 2414 - Calculus II **4 sem. hrs.**
- ENGR 1211 - Foundations of Engineering I **2 sem. hrs.**
- ENGR 1312 - Foundations of Engineering II **3 sem. hrs.**
- COSC 1330 - Programming for Scientists, Engineers, and Mathematicians **3 sem. hrs.**
- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- ENTC 2414 - Circuit Analysis I **4 sem. hrs.**

- ENTC 3415 - Circuit Analysis II **4 sem. hrs.**
- ENTC 3420 - Thermodynamics **4 sem. hrs.**
- ENTC 4350 - Capstone Projects **3 sem. hrs.**
- ENTC 4415 - Project Management **4 sem. hrs.**
- ENTC 4446 - Control Systems I **4 sem. hrs.**

Total: 42

III. Required Electrical Engineering Technology Courses

- ENTC 3323 - Robotics and Automation **3 sem. hrs.**
- ENTC 3416 - Digital Fundamentals **4 sem. hrs.**
- ENTC 3418 - Microprocessors/Microcontrollers **4 sem. hrs.**
- ENTC 3444 - Electronic Devices and Circuits I **4 sem. hrs.**
- ENTC 3445 - Electronic Devices and Circuits II **4 sem. hrs.**
- ENTC 3450 - Electronic System Design **4 sem. hrs.**
- ENTC 4322 - Programmable Logic Controllers **3 sem. hrs.**

Total: 26 hours

IV. Technical Elective Block (select three courses from the following list)

- ENTC 4335 - Energy Conversion **3 sem. hrs.**
- ENTC 4420 - Embedded Systems **4 sem. hrs.**
- ENTC 4430 - Power Transmission and Distribution **4 sem. hrs.**
- ENTC 4435 - Power Protection Systems **4 sem. hrs.**
- ENTC 4490 - Selected Topics **3-4 sem. hrs.**

Total: 10 - 12 hours

Geographic Information Science, BS

The mission of the Geographic Information Science Program is to prepare graduates for a variety of career paths related to the acquisition, analysis, and management of geospatial data and information. These career paths include education towards

advanced degrees and employment in the field of Geomatics or the rapidly expanding field of Geographic Information Systems. Graduates will have met the educational requirements to become Registered Professional Land Surveyors in Texas.

Program Objectives

- All graduates are expected to be able to accomplish the acquisition, analysis, and management of geospatial data and information.
- All graduates are capable of continuing paths towards graduate studies and/or employment in the fields of Geomatics and Geographic Information Systems.
- All graduates are prepared to become Registered Professional Land Surveyors, but not all graduates will choose this option.

Student Learning Outcomes

Graduates of the program will have:

- An understanding of the basic principles of mathematics, physics, and computer science; the professional skills and modern tools for professional practice in the geospatial sciences as well as for graduate education.
- An understanding of the principles in geospatial sciences and understanding of professional practice and ethical issues, including the ability to design and conduct experiments, as well as to analyze and interpret data.
- The ability to work in a team and develop problem-solving skills that include oral and written communication skills to effectively communicate geospatial information.
- An awareness and utilization of external organizations and institutions that provide useful geospatial data sets and their relationships to traditional and contemporary societal issues.
- A recognition of the need for continued learning and development of leadership skills through involvement in volunteer professional organizations and societies.

Program

Geomatics is a field of activity that uses a systematic approach to integrate all means of capturing and managing spatial data required for scientific, administrative, legal, and technical operations involved in the production and management of spatial information. These activities include, but are not limited to, cartography, control surveying, digital mapping, geodesy, geographic information systems, hydrography, land information management, land surveying, mining surveying, photogrammetry, and remote sensing.

Geographic Information Systems is a professional discipline that focuses on the computer-based solutions to problems involving the collection, synthesis, analysis, and communication of spatially related information within a geographic jurisdiction or area. Local, State, and Federal government agencies and private industries have been rapidly converting paper-based systems used to manage spatially referenced data and information to highly automated graphics systems that integrate digital mapping with computerized databases.

Each student will complete a Capstone Project related to one of the above areas of interest. The Capstone Project will be evaluated under the Geospatial Systems Project GISC 4351 course.

Degree Requirements

A summary of the hours necessary for graduation is as follows:

I.	University requirements First-Year Seminars: Full-time, first-year students must take UCCP 1101 and UCCP 1102	(2)
I.	Core Curriculum Program	42
II.	Foundations Required for the Geographic Information Science Program	14
III.	Core Required for the Geographic Information Science Program	68
IV.	Designated Electives	3
		Total 127

The specific requirements for each emphasis of the Bachelor of Science degree in Geographic Information Science are indicated on the following pages.

I. Core Curriculum Program

(See “University Core Curriculum Programs ”)

- Including GISC 1301 - Physical Geography and Mapping **3 sem. hrs.**
- Including MATH 2413 - Calculus I **4 sem. hrs.** (lecture component)
- Including PHYS 2425 - University Physics I **4 sem. hrs.** (lecture component)
- Including PHYS 2426 - University Physics II **4 sem. hrs.** (lecture component)

Core Curriculum Program: 42

II. Foundations Required for the Geographic Information Science Program

- MATH 2413 - Calculus I **4 sem. hrs.** (laboratory component)
- PHYS 2425 - University Physics I **4 sem. hrs.** (laboratory component)
- PHYS 2426 - University Physics II **4 sem. hrs.** (laboratory component)
- MATH 2414 - Calculus II **4 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**
- COSC 1435 - Introduction to Problem Solving with Computers I **4 sem. hrs.**

Total (Geographic Information Science Foundations): 14

III. Core Required for the Geographic Information Science Program

- GISC 1470 - Geospatial Systems I **4 sem. hrs.**
- GISC 2250 - Field Camp I **2 sem. hrs.**
- GISC 2470 - Geospatial Plane Measurement I **4 sem. hrs.**
- GISC 2301 - Geospatial Systems II **3 sem. hrs.**
- GISC 3325 - Geodetic Science **3 sem. hrs.**
- GISC 3412 - Geospatial Plane Measurement II **4 sem. hrs.**
- GISC 3420 - Geospatial Software Systems II **4 sem. hrs.**
- GISC 3421 - Visualization for GIS **4 sem. hrs.**
- GISC 4280 - Geospatial Systems Internship **2 sem. hrs.**
- GISC 4305 - Legal Aspects of Spatial Information **3 sem. hrs.**
- GISC 4315 - Satellite Positioning **3 sem. hrs.**
- GISC 4318 - Cadastral Systems **3 sem. hrs.**
- GISC 4335 - Geospatial Systems III **3 sem. hrs.**
- GISC 4340 - Geospatial Computations and Adjustment **3 sem. hrs.**
- GISC 4351 - Geospatial Systems Project **3 sem. hrs.**
- GISC 4371 - History of Texas Land Ownership **3 sem. hrs.**
- GISC 4431 - Remote Sensing **4 sem. hrs.**
- GISC 1336 - Digital Drafting and Design **3 sem. hrs.**
- GISC 2438 - Geospatial Software Systems I **4 sem. hrs.**
- GISC 3300 - Geospatial Mathematical Techniques **3 sem. hrs.**
- GISC 4350 - Field Camp II **3 sem. hrs.**

Total (Core Required for the Geographic Information Science Program): 68

IV. Designated Electives (choose one)

- GISC 4320 - Hydrography **3 sem. hrs.**
- GISC 4326 - Geomatics Professional Practice **3 sem. hrs.**
- GISC 4590 - Selected Topics **1-5 sem. hrs.** (Approved by GIS faculty)

Total for Geographic Information Science Degree: 127 Sem. Hrs.

Geospatial Information Science Combined BS and MS Degree Plan

This Degree Plan is designed to enrich exceptionally gifted senior undergraduate students to include master's level courses in their undergraduate degree plans. When a student with a GPA of at least 3.0 enters their junior-senior year they may apply into the 5-year Degree Plan. See admission requirements for the Geospatial Surveying Engineering Master of Science in the Graduate

Catalog. The number of hours required to complete the MS and BS degree is reduced. Students will be awarded their BS and MS simultaneously.

Degree Requirements

I.	University requirements First-Year Seminars: Full-time, first-year students must take UCCP 1101 and UCCP 1102	(2)
I.	Core Curriculum Program	42
II.	Foundations Required for the Geographic Information Science Program	14
III.	Core Required for the 5-year Geographic Information Science Program	48
IV.	Master of Science in Geospatial Surveying Engineering	36
		Total 140

I.Core Curriculum Program

University Core Curriculum Programs

II. Foundations Required for the Geographic Information Science Program

See section II above.

III. Core Required for the Combined BS and MS degrees in the Geographic Information Science Program

- GISC 1470 - Geospatial Systems I **4 sem. hrs.**
- GISC 2250 - Field Camp I **2 sem. hrs.**
- GISC 2301 - Geospatial Systems II **3 sem. hrs.**
- GISC 2470 - Geospatial Plane Measurement I **4 sem. hrs.**
- GISC 3325 - Geodetic Science **3 sem. hrs.**
- GISC 3412 - Geospatial Plane Measurement II **4 sem. hrs.**
- GISC 3420 - Geospatial Software Systems II **4 sem. hrs.**

- GISC 4315 - Satellite Positioning **3 sem. hrs.**
- GISC 4340 - Geospatial Computations and Adjustment **3 sem. hrs.**
- GISC 4350 - Field Camp II **3 sem. hrs.**
- GISC 4371 - History of Texas Land Ownership **3 sem. hrs.**
- GISC 1336 - Digital Drafting and Design **3 sem. hrs.**
- GISC 2438 - Geospatial Software Systems I **4 sem. hrs.**
- GISC 3300 - Geospatial Mathematical Techniques **3 sem. hrs.**
- GISC 4280 - Geospatial Systems Internship **2 sem. hrs.**

Total: 48

IV. Master of Science Geospatial Surveying Engineering

See the Graduate Catalog

For Additional Information

Website: http://gisc.tamucc.edu/

Mailing Address: Geographic Information Science Program, Unit 5868

College of Science and Engineering

Texas A&M University-Corpus Christi

6300 Ocean Drive, Corpus Christi, Tx 78412-5868

Mechanical Engineering Technology, BS

Engineering Technology

The Engineering Technology Council of the American Society for Engineering Education defines Engineering Technology as the profession in which knowledge of mathematics and natural sciences gained by higher education, experience, and practices is devoted primarily to the implementation and extension of existing technology for the benefit of humanity. Engineering technology focuses on the applied aspects of science and engineering to prepare graduates for practice in product improvement, manufacturing, and engineering operational functions. Engineering technologists are suited for industries that deal with application, manufacturing, implementation, engineering operation, sales, and production.

The goal of Engineering Technology is to prepare well educated, highly skilled, and socially and professionally responsible engineering technologists from a diverse population of students to create productive and rewarding careers. Graduates will be well grounded in the fundamentals of engineering, mathematics, science, communications, and problem solving. To create continuous improvement, the program uses input from employers, alumni, and the Industrial Advisory Committee. Engineering

Technology is accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012.

Contact Information

Engineering Technology Program, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412-5797. Phone: (361) 825-5849. Web: http://entc.tamucc.edu/

Mechanical Engineering Technology

Mechanical Engineering Technology graduates will exemplify the attributes previously described.

Student Learning Outcomes

- Practical, highly qualified engineering technologists.
- Employed in professional careers where they will solve problems using technical and hands-on skills developed during their studies.
- Employed by companies to apply their knowledge in the design, manufacture, sales, installation, operation and/or maintenance of complex, high-value systems.
- Socially and professionally responsible, possessing skills for life-long learning.

Graduates will have:

- an ability to select and apply knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities.
- an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.
- an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes
- an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives
- an ability to function effectively as a member or leader on a technical team.
- ability to identify, analyze, and solve broadly-defined engineering technology problems
- an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature
- an understanding of the need for and an ability to engage in self-directed continuing professional development
- an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity
- a knowledge of the impact of engineering technology solutions in a societal and global context
- a commitment to quality, timeliness and continuous improvement
- knowledge, problem solving ability and hands-on skills to enter careers in Mechanical Engineering Technology

- can apply specific program principles to the analysis, design, development, implementation, or oversight of more advanced mechanical systems or processes

- prepared to enter careers in materials, applied mechanics, computer-aided drafting/design, manufacturing, experimental techniques/procedure, analysis of engineering data, machine/mechanical design /analysis, power generation, fluid

power, thermal/fluid system design/analysis, plant operation maintenance, technical sales, instrumentation/ control systems, heating, ventilation and air conditioning (HVAC)

Academic advisors and faculty mentors are available to assist students with their academic endeavors.

A summary of the hours necessary for graduation follows:

		42
I.	Core Curriculum Program	
	*First-Year Seminar	(2)
II.	Common Engineering Technology courses	38
III.	Required Mechanical Engineering Technology courses	28
IV.	Technical Elective Block	12 to 13
		Total 120-121 (122 - 123)*

*Transfer students with 24 or more hours are exempt from First-Year Seminar.

The specific requirements for each aspect of the Bachelor of Science degree in Mechanical Engineering Technology are indicated below.

Note:

*Transfer students with 24 or more hours are exempt from First-Year Seminar.

** Transfer students with 24 or more hours

The specific requirements for each aspect of the Bachelor of Science degree in Mechanical Engineering Technology are indicated below. Students are encouraged to take the NCEES (National Council of Examiners for Engineering and Surveying) Fundamentals of Engineering (FE) exam during their senior year. The FE exam, http://ncees.org/exams/fe-exam/, is the first step in the process that leads to the P.E. license.

I. University Core Curriculum and other General Education Requirements

See “University Core Curriculum Programs” in this catalog. Engineering Technology students are to take the following University Core Curriculum courses:

- MATH 2413 - Calculus I **4 sem. hrs.** (3-hour lecture component)
- PHYS 2425 - University Physics I **4 sem. hrs.** (3-hour lecture component)
- PHYS 2426 - University Physics II **4 sem. hrs.** (3-hour lecture component)

Note:

Engineering Technology students must take two courses in Physics even if the natural science portion of the core curriculum is satisfied by other means. Students transferring to A&M-Corpus Christi from other institutions may have various means for fulfilling the core curriculum. Please refer to the “General Education Requirement” in the catalog section entitled “Undergraduate Programs.”

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

II. Common Engineering Technology Courses

- MATH 2413 - Calculus I **4 sem. hrs.** (1 hour laboratory component)
- PHYS 2425 - University Physics I **4 sem. hrs.** (1 hour laboratory component)
- PHYS 2426 - University Physics II **4 sem. hrs.** (1 hour laboratory component)
- MATH 2414 - Calculus II **4 sem. hrs.**
- ENGR 1211 - Foundations of Engineering I **2 sem. hrs.**
- ENGR 1312 - Foundations of Engineering II **3 sem. hrs.**
- COSC 1330 - Programming for Scientists, Engineers, and Mathematicians **3 sem. hrs.**
- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- ENTC 2414 - Circuit Analysis I **4 sem. hrs.**
- ENTC 3420 - Thermodynamics **4 sem. hrs.**
- ENTC 4446 - Control Systems I **4 sem. hrs.**
- ENTC 4415 - Project Management **4 sem. hrs.**
- ENTC 4350 - Capstone Projects **3 sem. hrs.**

Total: 38 hours

III. Required Mechanical Engineering Technology Courses

- ENTC 3302 - Manufacturing Processes **3 sem. hrs.**
- ENTC 2325 - Statics **3 sem. hrs.**
- ENTC 2326 - Dynamics **3 sem. hrs.**
- ENTC 3406 - Fluid Mechanics **4 sem. hrs.**
- ENTC 3408 - Strength of Materials **4 sem. hrs.**
- ENTC 3410 - Material Science **4 sem. hrs.**
- ENTC 3455 - Solid Modeling and Finite Elements **4 sem. hrs.**
- ENTC 4320 - Heat Transfer **3 sem. hrs.**

Total: 28 hours

IV. Technical Elective Block (select four courses from the following list)

Students choose one from:

```
Any upper division 3-credit hour Math, Science or Mechanical Engineering
courses.
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And choose three of the following courses:

- ENTC 3323 - Robotics and Automation **3 sem. hrs.**
- ENTC 4322 - Programmable Logic Controllers **3 sem. hrs.**
- ENTC 4335 - Energy Conversion **3 sem. hrs.**
- ENTC 4360 - Mechanical System Design **3 sem. hrs.**
- ENTC 4490 - Selected Topics **3-4 sem. hrs.**

Total: 12 to 13 hours

Bachelor of Science in Mechanical Engineering

Mechanical Engineering, BS

Mechanical Engineering is an engineering discipline that requires an understanding of mechanics, kinematics, thermodynamics and energy, and involves the application of principles of physics and mathematics to develop mechanical systems. The American Society of Mechanical Engineers (ASME) defines mechanical engineering as the branch of engineering that serves society through the analysis, design, and manufacture of systems that convert a source of energy to useful work. The Bachelor of Science in Mechanical Engineering (BSME) program emphasizes service, systems-based knowledge, and sustainability with an eye toward the interface of traditional mechanical engineering with new and emerging fields, in particular maritime sciences and marine biology that directly impact the Gulf Coast.

In accordance with the expectations of the accrediting organization ABET, the educational objectives of this program are:

- Practice the mechanical engineering discipline successfully within commonly accepted professional standards
- Possess teamwork and communications skills to develop a successful career in mechanical engineering
- Fulfill professional and ethical responsibilities in the practice of mechanical engineering, including social, environmental and economic considerations
- Engage in professional service, such as participation in professional society and community service
- Engage in life-long learning activities, such as graduate studies or professional workshops, and
- Become a leader of his/her chosen profession.

Graduates will have the ability to work professionally and ethically, as individuals and in multi-disciplinary teams, in both the thermal and mechanical systems areas, including design, manufacture, and control. Students will develop an understanding of the impact of engineering solutions from many perspectives.

Student Learning Outcomes

Graduates will have:

- 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.
- an ability to apply principles of engineering, basic science, and mathematics (including multivariate calculus and differential equations); to model, analyze, design, and realize physical systems, components or processes.
- an ability to work professionally in thermal systems
- an ability to work professionally in mechanical systems

Degree Requirements

The mechanical engineering curriculum consists of a minimum of 126 credit hours and can be divided into four main areas: University Core requirements, mathematics and science requirements, engineering requirements, and technical electives.

Because courses in mechanical engineering tend to be sequential, it is very important that students have the proper prerequisites. When in doubt, students should check with their faculty mentor.

A summary of the hours necessary for graduation follows:

		Sem. Hrs.
I.	University Core Curriculum Program	42
	First-Year Seminars (when applicable)*	(2)
II.	Common Engineering and Math courses	51
III.	Required Mechanical Engineering courses	23
IV.	Technical Elective Block	9
		Total 125 (127)*

*Transfer students with 24 or more hours are exempt from First-Year Seminar

Note:

The specific requirements of the Bachelor of Science in Mechanical Engineering degree are indicated below. Students are encouraged to take the NCEES (National Council of Examiners for Engineering and Surveying) Fundamentals of Engineering

(FE) exam during their senior year. The FE exam, http://ncees.org/exams/fe-exam/, is the first step in the process that leads to the P.E. license.

I. University Core Curriculum and other General Education Requirements

See “University Core Curriculum Programs ” in this catalog. Mechanical engineering students should take the following courses in fulfillment of the mathematics and natural science components of the University Core Curriculum:

- MATH 2413 - Calculus I **4 sem. hrs.** (3 hour lecture component)
- PHYS 2425 - University Physics I **4 sem. hrs.** (3 hour lecture component)
- PHYS 2426 - University Physics II **4 sem. hrs.** (3 hour lecture component)

Note:

Mechanical engineering students must take two courses in physics even if the natural science portion of the core curriculum is satisfied by other means. Students transferring to A&M-Corpus Christi from other institutions may have various means for fulfilling the core curriculum. Please refer to the “General Education Requirement” in the catalog section entitled “Undergraduate Programs.”

Only the 3 lecture hours of each will apply to the Core Curriculum Program. Each one-hour laboratory component will be counted in the Common Engineering, Math and Science Courses as appropriate.

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

II. Common Engineering, Math and Science Courses

- MATH 2413 - Calculus I **4 sem. hrs.** (1 hour laboratory component)
- PHYS 2425 - University Physics I **4 sem. hrs.** (1 hour laboratory component)
- PHYS 2426 - University Physics II **4 sem. hrs.** (1 hour laboratory component)
- MATH 2414 - Calculus II **4 sem. hrs.**
- MATH 3470 - Calculus III **4 sem. hrs.**
- MATH 3315 - Differential Equations **3 sem. hrs.**
- ENGR 1211 - Foundations of Engineering I **2 sem. hrs.**
- ENGR 1312 - Foundations of Engineering II **3 sem. hrs.**
- COSC 1330 - Programming for Scientists, Engineers, and Mathematicians **3 sem. hrs.**
- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- ENGR 2316 - Thermodynamics **3 sem. hrs.**
- ENGR 2322 - Materials Science **3 sem. hrs.**
- ENGR 2325 - Statics **3 sem. hrs.**

- ENGR 2326 - Dynamics **3 sem. hrs.**
- ENGR 2460 - Circuit Analysis **4 sem. hrs.**
- ENGR 3315 - Fluid Mechanics **3 sem. hrs.**
- ENGR 3320 - Strength of Materials **3 sem. hrs.**
- ENGR 3350 - Manufacturing Processes **3 sem. hrs.**

Total: 51

III. Required Mechanical Engineering Courses

- MEEN 3310 - Engineering Analysis for Mechanical Engineering **3 sem. hrs.**
- MEEN 3330 - Solid Mechanics for Mechanical Engineering **3 sem. hrs.**
- MEEN 3345 - Heat Transfer **3 sem. hrs.**
- MEEN 4320 - Engineering Lab **3 sem. hrs.**
- MEEN 4240 - Project Management **2 sem. hrs.**
- MEEN 4360 - Thermal Systems Design **3 sem. hrs.**
- MEEN 4365 - Mechanical Systems Design **3 sem. hrs.**
- MEEN 4370 - Capstone Projects **3 sem. hrs.**

Total: 23

IV. Technical Electives Block (select three courses from the following list)

These electives provide students the option to take courses that apply to their field of interest or to the Coastal Bend region. Many of the electives address issues related to ships, offshore platforms, offshore wind turbines, and sea floor mapping.

Students choose one from:

Any upper division 3-credit hour math/physics/chemistry/biology course (MATH 3342 Probability and Statistics preferred)

And choose two of the following courses:

- MEEN 3340 - Solid Modeling and Finite Elements **3 sem. hrs.**

- MEEN 4325 - Energy Conversion **3 sem. hrs.**
- MEEN 4330 - Introduction to Plasma Engineering and Applications **3 sem. hrs.**
- MEEN 4335 - Introduction to Aircraft Aerodynamics and Performance **3 sem. hrs.**
- MEEN 4345 - Sensors and Systems **3 sem. hrs.**
- MEEN 4350 - Controls, Automation and Robotics **3 sem. hrs.**
- MEEN 4355 - Marine Fabrication **3 sem. hrs.**
- MEEN 4375 - Fuel Cells **3 sem. hrs.**
- MEEN 4380 - Renewable Energy **3 sem. hrs.**
- MEEN 4385 - Offshore Energy Management **3 sem. hrs.**
- MEEN 4390 - Introduction to Computational Fluid Dynamics **3 sem. hrs.**
- MEEN 4395 - Offshore Water Exploration and Desalination Systems **3 sem. hrs.**

Capstone Project

All mechanical engineering students must complete a senior-level capstone project in MEEN 4370. Students will work with practicing engineers and mechanical engineering faculty. The capstone project will give engineering students practical, professional experience to prepare them for careers in mechanical engineering.

Post-Baccalaureate Certificate

Geographic Information Science Certificate

The Post-Baccalaureate Certificate in Geographic Information Science (GIS) is designed for students who hold a bachelor's degree or master's degree in fields other than GIS and desire to continue their education in Geographic Information Science. Candidates for the certificate are required to complete 32 credit hours of GIS related courses; 20 of these credit hours must be taken at Texas A&M University-Corpus Christi. Students are required to meet all other academic standards. The Coordinator of the Geographic Information Science program or a designee may waive certain courses if a student has previously completed appropriate GIS courses. Students must apply for the certificate and complete a Certificate Plan approved by the Coordinator of the Geographic Information Science program or a designee.

33 Credit Hour Certificate in Geographic Information Systems

Required GISC courses (33 Semester Hours)

- GISC 1336 - Digital Drafting and Design **3 sem. hrs.**
- GISC 1470 - Geospatial Systems I **4 sem. hrs.**
- GISC 2301 - Geospatial Systems II **3 sem. hrs.**
- GISC 2438 - Geospatial Software Systems I **4 sem. hrs.**
- GISC 3300 - Geospatial Mathematical Techniques **3 sem. hrs.**
- GISC 3420 - Geospatial Software Systems II **4 sem. hrs.**
- GISC 3421 - Visualization for GIS **4 sem. hrs.**

- GISC 4431 - Remote Sensing **4 sem. hrs.**
- COSC 1435 - Introduction to Problem Solving with Computers I **4 sem. hrs.**

Note:

Students must earn at least a 2.0 overall grade point average in all GISC courses.

For Additional Information

Website: http://gisc.tamucc.edu/

Mailing Address: Geographic Information Science Program, Unit 5868

College of Science and Engineering

Texas A&M University-Corpus Christi

6300 Ocean Drive, Corpus Christi, Texas 78412-5868

Geomatics Certificate

The Post-Baccalaureate Certificate in Geomatics is designed for students who hold a bachelor's degree or master's degree in fields other than Geomatics or Geographic Information Science and desire to continue their education to prepare for the Texas Board of Professional Land Surveying examination to become a Registered Professional Land Surveyor in Texas. Candidates for the certificate are required to complete 32 credit hours of surveying related courses; 20 of these credit hours must be taken at Texas A&M University-Corpus Christi. Students are required to meet all other academic standards. The Coordinator of the Geographic Information Science program or a designee may waive certain courses if a student has previously completed appropriate surveying courses. Students must apply for the certificate and complete a Certificate Plan approved by the Coordinator of the Geographic Information Science program or a designee.

33 Credit Hour Certificate in Geomatics

Required GISC courses (33 Semester Hours)

- GISC 1336 - Digital Drafting and Design **3 sem. hrs.**
- GISC 2470 - Geospatial Plane Measurement I **4 sem. hrs.**
- GISC 3325 - Geodetic Science **3 sem. hrs.**
- GISC 3412 - Geospatial Plane Measurement II **4 sem. hrs.**
- GISC 4315 - Satellite Positioning **3 sem. hrs.**
- GISC 4318 - Cadastral Systems **3 sem. hrs.**
- GISC 4340 - Geospatial Computations and Adjustment **3 sem. hrs.**
- GISC 4350 - Field Camp II **3 sem. hrs.**
- GISC 4371 - History of Texas Land Ownership **3 sem. hrs.**
- GISC 1470 - Geospatial Systems I **4 sem. hrs.**

Note:

Students must earn at least a 2.0 overall grade point average in all GISC courses.

For Additional Information

Website: http://gisc.tamucc.edu/

Mailing Address: Geographic Information Science Program, Unit 5868

College of Science and Engineering

Texas A&M University-Corpus Christi

6300 Ocean Drive, Corpus Christi, Texas 78412-5868

Minor

Computer Science Minor

Students majoring in other academic fields who wish to complete a minor in computer science must complete at least 18 hours of computer science, of which at least 6 semester hours must be at or above the 3000 level. The content of the course work for the minor must include the equivalent of:

Required Courses

- COSC 1435 - Introduction to Problem Solving with Computers I **4 sem. hrs.**
- COSC 1436 - Introduction to Problem Solving with Computers II **4 sem. hrs.**
- COSC 2437 - Data Structures **4 sem. hrs.** *
- Computer Science electives (at or above the 3000 level) **6 sem. hrs.**

Total: 18

Note:

*It is assumed that the student has completed all mathematics prerequisites and corequisites for the required courses.

Electrical Engineering Technology Minor

This minor is designed to serve students who are interested in supplementing their major with technical skills in the areas of robotics and automation. A minimum of 12 hours must be taken at Texas A&M University-Corpus Christi. For additional information contact an academic advisor in the college of Science and Engineering.

Required courses:

- ENTC 3415 - Circuit Analysis II **4 sem. hrs.**
- ENTC 3416 - Digital Fundamentals **4 sem. hrs.**
- ENTC 3323 - Robotics and Automation **3 sem. hrs.**
- ENTC 3444 - Electronic Devices and Circuits I **4 sem. hrs.**
- ENTC 4322 - Programmable Logic Controllers **3 sem. hrs.**

Total: 18 hours

Geographic Information Science Minor

Students majoring in other academic fields who wish to earn a minor in Geographic Information Science must complete the following courses:

- GISC 1336 - Digital Drafting and Design **3 sem. hrs.**
- GISC 1470 - Geospatial Systems I **4 sem. hrs.**
- GISC 2301 - Geospatial Systems II **3 sem. hrs.**
- GISC 2470 - Geospatial Plane Measurement I **4 sem. hrs.**
- GISC 3421 - Visualization for GIS **4 sem. hrs.**

One of the following courses:

- GISC 4305 - Legal Aspects of Spatial Information **3 sem. hrs.**
- GISC 4431 - Remote Sensing **4 sem. hrs.**
- GISC 4590 - Selected Topics **1-5 sem. hrs.** (Approved by GIS faculty)

Total (Geographic Information Science Minor): 20 (21)

Mechanical Engineering Technology Minor

This minor is designed to serve students who are interested in supplementing their major with technical skills in alternative energy technologies. A minimum of 12 hours must be taken at Texas A&M University-Corpus Christi. For additional information contact an academic advisor in the College of Science and Engineering.

Required courses:

- ENTC 3302 - Manufacturing Processes **3 sem. hrs.**
- ENTC 2325 - Statics **3 sem. hrs.**
- ENTC 2326 - Dynamics **3 sem. hrs.**
- ENTC 3415 - Circuit Analysis II **4 sem. hrs.**
- ENTC 3420 - Thermodynamics **4 sem. hrs.**
- ENTC 4335 - Energy Conversion **3 sem. hrs.**

Total: 20 hours

Department of Life Sciences

Bachelor of Science

Biology, BS

Purpose of Biology Program

The biology program provides diverse training for careers in the biological sciences. The biology curriculum includes content courses required for (1) teacher certification in life science, (2) acceptance to post-graduate studies, and (3) pre-professional studies in preparation for admission to professional schools.

Students will acquire content and skills to enter a variety of biology-related careers such as research, marine biology, wildlife and coastal management, environmental protection, laboratory technician, biotechnology industry, medical or environmental microbiology, technical writing, pharmaceutical sales, careers in the medical, dental, and allied health fields, and science education.

Field and laboratory courses emphasize the development of practical skills in using special materials and equipment. Focus is on enhancement of critical thinking skills, which will prepare the student for careers in the biological sciences as well as in other general areas of employment.

Student Learning Outcomes

Students will:

- Students will possess a broad understanding of biology.
- Students will understand the scientific method and use it to develop and conduct biological experiments.
- Students will have the skills necessary to successfully communicate biological information to a range of audiences.

The Honors Program

The Honors Program (admission by application only) offers highly motivated students from any academic discipline an enriched program of study in which to develop global perspectives. Appropriate courses approved by both a student's Biology faculty mentor and Honors advisor may count toward the Biology degree. Thus, a Biology student in the Honors track can usually graduate with no additional course work. For more information, consult the section entitled "Honors Program" near the front of this catalog.

Requirements of the Undergraduate Biology Major

The Bachelor of Science in Biology degree requires a minimum of 120 semester credit hours: 42 are from designated University Core Curriculum Program courses, 56-57 are from biology core courses and 18-19 are from biology career track courses. The biology core provides students with a broad biological background and includes coursework in four key areas: mathematics, the chemistry of life/cell biology, form and function, and organismal biology. In each of these areas students select one course from a list of appropriate courses, depending on their interests and choice of biology career track. The biology career track areas are: (A) Ecology, (B) Marine Biology, (C) Cell/Molecular Biology, (D) Microbiology, (E) Organismal Biology and (F) Integrative Biology. Students should select a biology career track as soon as possible after they complete their freshman year and well before they begin their junior year.

Degree Requirements

	Sem. Hrs.
I. First-Year Seminars / Professional Skills	2
II. Core Curriculum Program***	42
III. Biology Core Courses	51-52
IV. Biology Career Track Courses	24-25
	Total 120

I. First-Year Seminars / Professional Skills

Full-time, first-year students are required to take these First-Year Seminar courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**
  Students entering with some college credit may not be required to take one or both of the First-Year Seminar courses (see The First-Year Learning Communities Program for rules and exceptions concerning these courses). A student who is not required to take these First-Year Seminar courses and does not take them must take:

- BIOL 2200 - Professional Skills **2 sem. hrs.**

Total 2

II. University Core Curriculum Program

**Three of these four-hour science and mathematics courses are required for all Biology students: BIOL 1406, BIOL 1407, and MATH 2413. Only the 3 lecture hours of each will apply to the University Core Curriculum. Each one-hour laboratory component will be counted as a Biology Core requirement.

Total: 42

III. Biology Core Courses

- BIOL 1406 - Biology I **4 sem. hrs.** (3 hours included in University Core, 1 hour in Biology Core)
- BIOL 1407 - Biology II **4 sem. hrs.** (3 hours included in University Core, 1 hour in Biology Core)
- BIOL 2416 - Genetics **4 sem. hrs.**
- BIOL 2421 - Microbiology **4 sem. hrs.**
- BIOL 2371 - Principles of Evolution **3 sem. hrs.**
- BIOL 3428 - Principles of Ecology **4 sem. hrs.**
- BIOL 4085 - Major Field Test in Biology **0 sem. hrs.**
- BIOL 4292 - Senior Presentation **2 sem. hrs.**
- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- CHEM 1412 - General Chemistry II **4 sem. hrs.**
- CHEM 3411 - Organic Chemistry I **4 sem. hrs.**
- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**
- MATH 2413 - Calculus I **4 sem. hrs.** (3 hours included in University Core, 1 hour in Biology Core)

  Select 1 course from the following list to fulfill the Math requirement

- MATH 1314 - College Algebra **3 sem. hrs.**
- MATH 2312 - Precalculus **3 sem. hrs.**
- MATH 2414 - Calculus II **4 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**

Select 1 course from the following list to fulfill the Chemistry of Life/Cell Biology requirement

- BIOL 3403 - Molecular Biology **4 sem. hrs.**
- BIOL 3410 - Cell Biology **4 sem. hrs.**
- CHEM 4401 - Biochemistry I **4 sem. hrs.**

Select 1 course from the following list to fulfill the Form and Function requirement

- BIOL 3425 - Functional Anatomy **4 sem. hrs.**
- BIOL 3430 - Physiology **4 sem. hrs.**
- BIOL 3455 - Plant form and Function **4 sem. hrs.**

Select 1 course from the following list to fulfill the Organismal Biology requirement

- BIOL 2472 - Principles of Botany **4 sem. hrs.**
- BIOL 3413 - Invertebrate Zoology **4 sem. hrs.**
- BIOL 3414 - Vertebrate Zoology **4 sem. hrs.**

Total: 51-52

Note:

Students must complete 24-25 additional hours in one of the Biology Tracks to earn the 120 hours necessary for graduation. A minimum of 45 hours of upper-division credit (courses numbered 3000 or 4000) is required to graduate. A minimum grade point average of 2.0 in the major field of study (biology core + biology track) is required to graduate.

IV. Biology Career Tracks

Each biology career track is designed to provide specific background in a biological discipline. The integrative biology track provides a broad background in the biological sciences.

Any track will prepare a student for entry-level biological careers in a variety of academic, governmental, or private sector settings, but many careers will require training beyond the BS degree. A students should consult their faculty mentor to determine the track that is the best fit for their career goals.

Each track consists of 24-25 hours, including a core of required courses and electives. Students are strongly encouraged to consult their faculty mentor for guidance in choosing the electives.

A. Ecology Track

The Ecology Track focuses on interactions between organisms and between organisms and the physical environment. Students choosing this track will be preparing for careers in fields such as agriculture, environmental protection, conservation, natural resource management, and public education.

I. Ecology Core Courses (8 Sem. Hrs.):

Select 2 advanced ecology courses from the following list:

- BIOL 3479 - Plant Ecology **4 sem. hrs.**
- BIOL 4405 - Limnology **4 sem. hrs.**
- BIOL 4408 - Microbial Diversity and Ecology **4 sem. hrs.**
- BIOL 4436 - Marine Ecology **4 sem. hrs.**
- BIOL 4446 - Tropical Ecosystems & Conservation **4 sem. hrs.**

II. Ecology Electives

Choose 16-17 hours of approved electives. A total of at least 120 hours is required to graduate with the B.S. degree. (See below for a note about the advanced Mathematics requirement for for Ecology students.)

III. Ecology Advanced Mathematics Requirement:

- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**
  This course is required of all students in the Ecology Career Track. It can count as the second math course in the Biology Core if the student is prepared to take MATH 2413 - Calculus I as the first math course in the Biology Core. If the student has already counted another course as the second math course in the Biology Core, then MATH 3342 - Applied Probability and Statistics will count toward the Ecology Electives.

B. Marine Biology Track

The Marine Biology track focuses on organisms in marine and coastal systems. Students choosing this track will be preparing for careers in fisheries and aquaculture, coastal/marine resource management and conservation, outdoor recreation, and aquatic science.

I. Marine Biology Core Courses (10-12 Sem. Hrs.):

- BIOL 4436 - Marine Ecology **4 sem. hrs.**

Select 1 of the following courses to fulfill the Marine Organisms requirement

- BIOL 4319 - Marine Mammals **3 sem. hrs.**
- BIOL 4429 - Marine Botany **4 sem. hrs.**
- BIOL 4432 - Ichthyology **4 sem. hrs.**

Students choosing BIOL 4432 Ichthyology should take BIOL 3414 Vertebrate Zoology as part of the Biology Core (Organismal Biology requirement).

- BIOL 4444 - Estuarine Organisms **4 sem. hrs.**
  Students choosing BIOL 4444 Estuarine Organisms should take BIOL 3413 Invertebrate Zoology as part of the Biology Core (Organismal Biology requirement).

Select 1 of the following courses to fulfill the Human Impacts requirement

- BIOL 4428 - Fisheries **4 sem. hrs.**
- BIOL 4302 - Coral Reef Conservation **3 sem. hrs.**
- BIOL 4323 - Global Change Ecology **3 sem. hrs.**

II. Marine Biology Electives

Choose 12-15 hours of approved electives. A total of at least 120 hours is required to graduate with the B.S. degree.

C. Cell/Molecular Biology Track

The Cell/Molecular Biology track focuses on the chemical, cellular, and tissue levels of biological organization. Students choosing this track will be preparing for careers in biotechnology and healthcare professions, research laboratories, biological/pharmaceutical manufacturing and quality control, agricultural testing, and health- or biotechnology-related sales. This track also prepares students for graduate studies in biology, biotechnology and health-related sciences.

I. Cell/Molecular Biology Core Courses (15 Sem. Hrs.):

- BIOL 3403 - Molecular Biology **4 sem. hrs.** (Include in the Biology Core)
- BIOL 3410 - Cell Biology **4 sem. hrs.**
- BIOL 4340 - Genomics, Proteomics and Bioinformatics **3 sem. hrs.**
- CHEM 4401 - Biochemistry I **4 sem. hrs.**
- CHEM 4402 - Biochemistry II **4 sem. hrs.**

II. Cell/Molecular Biology Electives

Choose 9-10 hours of approved electives. A total of at least 120 hours is required to graduate with the B.S. degree.

D. Microbiology Track

This Microbiology track focuses on bacteria, viruses, fungi and protozoa. Many of these organisms are important to industry, agriculture, and health care. Students choosing this track will be preparing for careers in industrial, environmental, medical, public health, and agricultural laboratories, industrial quality control, health care professions, research, biotechnology, and microbiology-related sales.

I. Microbiology Core Courses (23 Sem. Hrs.):

- BIOL 3403 - Molecular Biology **4 sem. hrs.** (Include in the Biology Core)
- BIOL 4406 - Immunology **4 sem. hrs.**
- BIMS 4374 - Medical Microbiology **3 sem. hrs.**
- CHEM 4401 - Biochemistry I **4 sem. hrs.**
- CHEM 4402 - Biochemistry II **4 sem. hrs.**

Students must complete 8 sem. hrs. of Physics

- PHYS 1401 - General Physics I **4 sem. hrs. AND**
- PHYS 1402 - General Physics II **4 sem. hrs.**
  OR
- PHYS 2425 - University Physics I **4 sem. hrs. AND**
- PHYS 2426 - University Physics II **4 sem. hrs.**

II. Microbiology Electives

Choose 1-2 hours of approved electives. A total of at least 120 hours is required to graduate with the B.S. degree.

E. Organismal Biology Track

The Organismal Biology track focuses on the natural history, ecology, structure, and function of plants and/or animals. Students can choose to emphasize plants or animals, or take courses that result in a broad understanding of both. Students choosing this track will be preparing for careers that include, but are not limited to, wildlife management, fisheries, natural resource management, parks and recreation, biodiversity and conservation, habitat restoration, and agriculture or horticulture. This track also prepares students for graduate studies in biology, wildlife and fisheries sciences, wildlife management, forestry, or taxonomy and systematics.

I. Organismal Biology Core Courses (8 Sem. Hrs.):

Plant Emphasis

- BIOL 2472 - Principles of Botany **4 sem. hrs.** (Include in Biology Core)
- BIOL 3455 - Plant form and Function **4 sem. hrs.** (Include in Biology Core)
- BIOL 3479 - Plant Ecology **4 sem. hrs.**
- BIOL 4422 - Plant Taxonomy **4 sem. hrs.**

Animal Emphasis

- BIOL 3413 - Invertebrate Zoology **4 sem. hrs.** (Include in Biology Core)
- BIOL 3414 - Vertebrate Zoology **4 sem. hrs.**
- BIOL 4411 - Animal Behavior **4 sem. hrs.**

Select 1 of the following courses (include in Biology Core)

- BIOL 3425 - Functional Anatomy **4 sem. hrs. OR**
- BIOL 3430 - Physiology **4 sem. hrs.**

Broad Emphasis

Students choosing this emphasis should take one 4 sem. hour course from the Animal Emphasis and one 4 sem. hour course from the Plant Emphasis, including any Biology Core course listed in either Plant or Animal emphasis that was not taken to fulfill Biology Core requirements.

II. Organismal Biology Electives

Choose 16-17 hours of approved electives. A total of at least 120 hours is required to graduate with the B.S. degree.

F. Integrative Biology Track

The Integrative Biology track emphasizes the integration of physical factors, cells, tissues, organs, and organ systems in producing functional organisms. Students choosing this track will be preparing for careers in health care, government or academic research, agriculture, or biology sales. This track is also a good choice for students planning to attend graduate school because it provides a great deal of flexibility depending on the student's interests and career goals.

I. Integrative Biology Core Courses (12 Sem. Hrs.):

- BIOL 3410 - Cell Biology **4 sem. hrs.** (Include in the Biology Core)
- BIOL 3425 - Functional Anatomy **4 sem. hrs.** (Include in the Biology Core)
- BIOL 3430 - Physiology **4 sem. hrs.**

Students must complete 8 sem. hrs. of Physics

- PHYS 1401 - General Physics I **4 sem. hrs. AND**
- PHYS 1402 - General Physics II **4 sem. hrs.**
  OR
- PHYS 2425 - University Physics I **4 sem. hrs. AND**
- PHYS 2426 - University Physics II **4 sem. hrs.**

II. Integrative Biology Electives

Choose 12-13 hours of approved electives. A total of at least 120 hours is required to graduate with the B.S. degree. (See below for a note about the advanced Mathematics requirement for for Integrative Biology students.)

III. Integrative Biology Advanced Mathematics Requirement:

- MATH 2414 - Calculus II **4 sem. hrs.** OR
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**
  Students in the Integrative Biology Career Track must complete one of the preceeding advanced Mathematics courses. Either of these can count as the second math course in the Biology Core if the student is prepared to take MATH 2413 - Calculus I as the first math course in the Biology Core. If the student has already counted another course as the second

math course in the Biology Core, then MATH 2414 - Calculus II or MATH 3342 - Applied Probability and Statistics will count toward the Integrative Biology Electives.

G. Approved Electives

BIOL 2472 Principles of Botany, or any 3000- or 4000-level Biology course (except BIOL 3471 Padre Island Ecology and BIOL 3472 Marine Biology) can be taken for elective credit. In addition to upper-division Biology (BIOL prefix) courses, students may select courses from the list below. Note that approval of a faculty mentor is required for certain courses (BIOL 4590 Selected Topics or BIOL 4396 Directed Independent Study). Up to 4 semester hours of science electives not on this list can be taken with mentor approval.

I. List of Electives

- BIMS 3401 - Pathophysiology **4 sem. hrs.**
- BIMS 4311 - Biology of Cancer **3 sem. hrs.**
- BIMS 4323 - Neurobiology **3 sem. hrs.**
- BIMS 4327 - Introduction to Toxicology **3 sem. hrs.**
- BIMS 4330 - Biological Basis of Aging **3 sem. hrs.**
- BIMS 4333 - Medical Entomology **3 sem. hrs.**
- BIMS 4334 - Human Genetics **3 sem. hrs.**
- BIMS 4335 - Endocrinology **3 sem. hrs.**
- BIMS 4374 - Medical Microbiology **3 sem. hrs.**
- BIMS 4375 - Mechanisms of Microbial Pathogenesis **3 sem. hrs.**
- BIMS 4410 - Histology **4 sem. hrs.**

- PHYS 1401 - General Physics I **4 sem. hrs. OR**
- PHYS 2425 - University Physics I **4 sem. hrs.**

- PHYS 1402 - General Physics II **4 sem. hrs. OR**
- PHYS 2426 - University Physics II **4 sem. hrs.**

- MATH 2414 - Calculus II **4 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**

- BIOL 4590 - Selected Topics **1-5 sem. hrs.** (with approval of faculty mentor)

Biomedical Sciences, BS

Purpose of the Biomedical Sciences Program

The Biomedical Sciences Program serves the Coastal Bend region, the state of Texas, and the nation by preparing students for biomedical career opportunities including health services, research, forensic science, genetic engineering, biotechnology, bioinformatics, product sales, and services dealing with analysis, assessment and inspection. A few biomedical careers are available to a student with a baccalaureate degree, but most will require the student to complete post-baccalaureate course work

or to earn a graduate degree. Core courses in biology and chemistry provide students with critical thinking skills in the pure sciences; specific courses allow students to further develop these skills and utilize them in solving problems. This unique combination provides students with a strong conceptual framework and also allows students to focus upon applied biomedical sciences. The three options in the Biomedical Sciences Program prepare students

- to enter post-baccalaureate or graduate programs in the health professions (e.g., medicine, dentistry, pharmacy, physician assistant, physical therapy, occupational therapy, etc.) or in related sciences.
- for post-baccalaureate certification in clinical laboratory sciences.
- for careers and/or graduate training in forensic science and related areas.

Student Learning Outcomes

Students will:

- Students will possess a broad understanding of biology and related sciences applicable to their specific option.
- Students will understand the application of science in biomedical fields.
- Students will have the skills necessary to successfully communicate biomedical information to a range of audiences.

The Honors Program

The Honors Program (admission by application only) offers highly motivated students from any academic discipline an enriched program of study in which to develop global perspectives. Appropriate courses approved by both a student's BIMS faculty mentor and Honors advisor may count toward the BIMS degree. BIMS students wishing to participate in the Honors track may require some additional course work. For more information, consult the section entitled "Honors Program" near the front of this catalog.

Related Programs

Numerous undergraduate programs complement a major in Biomedical Sciences. In addition to the "traditional" partners (Biology, Chemistry, Physics), students should also examine courses in the Department of Computing Sciences, the Department of Mathematics and Statistics and the College of Nursing and Health Sciences. Students should also consider courses in the College of Liberal Arts (social sciences, languages, criminal justice), in the College of Business, and in the College of Education (kinesiology). Details of these programs are available in their respective sections of this catalog.

Requirements of the Biomedical Sciences Major

The Bachelor of Science in Biomedical Sciences degree requires a minimum of 120 semester hours: 45 are from designated Core Curriculum Program courses, 22 are from biomedical sciences core courses, and 53 are from biomedical sciences option courses. Students select one of three biomedical sciences options: (A) Pre-Professional Option, (B) Pre-Clinical Laboratory Science Option (professional certification as a clinical laboratory scientist requires additional semester hours of course work), or (C) Forensic Science Option. A student should select an option after completion of a minimum of 35 semester hours of university course work, but before the completion of 50 semester hours. After their sophomore year (60 semester hours), students must have (and maintain) a cumulative GPA of 2.50 or above in their course work, with no course work older than 5 years. No "D" or "F" grades will be accepted as credit within the biomedical sciences core or option courses.

General Requirements

	Sem. Hrs.
1. First-Year Seminars OR Professional Skills	0-2
2. Core Curriculum Program **	42
3. Biomedical Sciences Core Courses	22
4. Biomedical Sciences Option Courses	54
	Total 120

I. First Year Seminars/Professional Skills

First-Year Seminars

Full-time, first-year students are required to take these First-Year Seminar courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Students entering with some college credit

Students entering with some college credit may not be required to take one or both of the First-Year Seminar courses (see The First Year Learning Communities Program for rules and exceptions concerning these courses). Students in the Pre-Professional or Forensic Science options who are not required to take these First-Year Seminar courses must take BIMS 2200 Professional Skills (see below). Students in the Clinical Laboratory Science option must take BIMS 4200 whether or not they have taken none, one or both First Year Seminars:

- BIMS 2200 - Professional Skills **2 sem. hrs.** (for Biomedical Science or Forensic Science options ONLY) OR
- BIMS 4200 - Professional Skills for Clinical Laboratory Scientists **2 sem. hrs.**
  Required for all Clinical Laboratory Science option students, even if UCCP 1101 and/or UCCP 1102 were taken.

Total: 2

Note:

**Three 4-hour science and mathematics courses are required for all Biomedical Sciences students: BIOL 1406, BIOL 1407, and MATH 1442). Only the 3 lecture hours of each will apply to the Core Curriculum Program. Each one-hour laboratory component will be counted as a Biomedical Sciences Core or Biomedical Sciences Option requirement as appropriate.

II. University Core Curriculum

Total: 42

III. Biomedical Sciences Core Courses

- BIOL 1406 - Biology I **4 sem. hrs.** 1 (3 hours included in University Core)
- BIOL 1407 - Biology II **4 sem. hrs.** 1 (3 hours included in University Core)
- BIOL 2416 - Genetics **4 sem. hrs.**
- BIOL 2421 - Microbiology **4 sem. hrs.**
- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- CHEM 1412 - General Chemistry II **4 sem. hrs.**
- CHEM 3411 - Organic Chemistry I **4 sem. hrs.**

Total: 22

IV. Biomedical Sciences Options

Each multi-disciplinary option provides specific background in an area of biomedical sciences that corresponds to the student's career choice. For the baccalaureate degree, an option consists of requirements and electives totaling 54 semester hours of course work.

A. Pre-Professional Option

This option is designed for students who plan to continue their education in a professional school (e.g., medicine, dentistry, veterinary medicine, pharmacy, physical therapy, occupational therapy, physician assistant, etc.) or graduate school. Students in this option must choose either Statistics for Life (MATH 1442) or Calculus I (MATH 2413) to satisfy the University Core requirement in mathematics, and they must complete the Major Field Test in Biology (BIOL 4085) during their senior year, prior to graduation.

Pre-Professional Option—Requirements:

- BIOL 4085 - Major Field Test in Biology **0 sem. hrs.**

- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**
- MATH 1442 - Statistics for Life **4 sem. hrs.** 1 (3 hours included in University Core)

Total: 5

Pre-Professional Option—Electives

Choose 49 semester credit hours from the electives listed below:

- BIMS 2171 - Medical Terminology **1 sem. hrs.**

- BIMS 3300 - Animal Nutrition **3 sem. hrs.**
- BIMS 3301 - Introduction to Animal Science **3 sem. hrs.**
- BIMS 3401 - Pathophysiology **4 sem. hrs.**
- BIMS 3403 - Molecular Biology **4 sem. hrs.**
- BIMS 4170 - Biomedical Seminar **1 sem. hrs.**
- BIMS 4295 - Biomedical Practicum **2 sem. hrs.**
- BIMS 4296 - Clinical Research **2 sem. hrs.**
- BIMS 4299 - Directed Independent Research **1-2 sem. hrs.**
- BIMS 4311 - Biology of Cancer **3 sem. hrs.**
- BIMS 4323 - Neurobiology **3 sem. hrs.**
- BIMS 4327 - Introduction to Toxicology **3 sem. hrs.**
- BIMS 4330 - Biological Basis of Aging **3 sem. hrs.**
- BIMS 4331 - Health Disparities **3 sem. hrs.**
- BIMS 4333 - Medical Entomology **3 sem. hrs.**
- BIMS 4334 - Human Genetics **3 sem. hrs.**
- BIMS 4335 - Endocrinology **3 sem. hrs.**
- BIMS 4374 - Medical Microbiology **3 sem. hrs.**
- BIMS 4375 - Mechanisms of Microbial Pathogenesis **3 sem. hrs.**
- BIMS 4396 - Directed Independent Study **1-3 sem. hrs.**
- BIMS 4406 - Immunology **4 sem. hrs.**
- BIMS 4410 - Histology **4 sem. hrs.**
- BIMS 4590 - Selected Topics **1-5 sem. hrs.** (with approval of faculty mentor)
- BIOL 3345 - Cell Physiology **3 sem. hrs.**
- BIOL 3410 - Cell Biology **4 sem. hrs.**
- BIOL 3425 - Functional Anatomy **4 sem. hrs.**
- BIOL 3430 - Physiology **4 sem. hrs.**
- BIOL 4301 - Embryology **3 sem. hrs.**
- BIOL 4304 - Biology of Viruses **3 sem. hrs.**
- BIOL 4340 - Genomics, Proteomics and Bioinformatics **3 sem. hrs.**
- BIOL 4350 - Research and Design **3 sem. hrs.**
- BIOL 4407 - Biology of the Fungi **4 sem. hrs.**
- BIOL 4408 - Microbial Diversity and Ecology **4 sem. hrs.**
- BIOL 4433 - Parasitology **4 sem. hrs.**
- BIOL 4435 - Biological Microtechniques **4 sem. hrs.**
- CHEM 4320 - Drugs, Toxins and Natural Products Chemistry **3 sem. hrs.**
- CHEM 4401 - Biochemistry I **4 sem. hrs.**
- CHEM 4402 - Biochemistry II **4 sem. hrs.**
- MATH 2413 - Calculus I **4 sem. hrs.** (if not counted in the university core)
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.** (unless student has credit for MATH 1442)
- PHYS 1401 - General Physics I **4 sem. hrs.**
- PHYS 1402 - General Physics II **4 sem. hrs.**
- Other approved elective(s) **12 sem. hrs.**

Additional Information

This option has flexible degree requirements with many electives to accommodate the different professional schools' diverse entrance requirements. In the list of electives above, however, not every course is appropriate for every student and some courses are best taken at a particular time. For example:

Students should take basic science courses such as BIMS 3403, BIMS 4406, BIOL 3425, BIOL 3430, CHEM 4401, CHEM 4402, PHYS 1401, PHYS 1402 before they attempt standardized admissions tests (usually at the end of their junior year). Most professional schools encourage applicants to have a broad background in the basic sciences, and these courses are helpful even if they are not specifically required for admission to a particular career area.

To decide which electives to choose, students should:

- consult their faculty mentor and academic advisor who can also provide information about the "other mentor approved electives" which may include nonlisted courses in natural sciences (biology, biomedical sciences, chemistry, physics), social sciences (psychology, sociology), computer science, health sciences, criminal justice, kinesiology, or business.
- contact the appropriate school(s) to determine their specific entrance requirements.
- obtain a sample degree plan for a particular career field. These are available on the BIMS web site, from the student's faculty mentor or academic advisor, or through the Pre-Professional Office in CS 130 (http://www.sci.tamucc.edu/prepro).

B. Pre-Clinical Laboratory Science Option

Clinical Laboratory Science is an interesting, challenging, and rewarding profession. Clinical laboratory scientists obtain and analyze clinical laboratory data and consult with physicians and others regarding those data. Working in hospitals, clinics, research laboratories, physicians' offices, or public health laboratories, they are responsible for a variety of chemical, hematological, immunological, microbiological, serological, and other laboratory procedures. Furthermore, the clinical laboratory scientist is also responsible for quality assurance in the laboratory and the supervision of other laboratory personnel. The biomedical science degree with the pre-clinical laboratory science option includes 13 hours of required foundation courses and 44 hours from the clinical courses listed below.

Pre-Clinical Laboratory Science Option—Required Foundation Courses

Although no specific courses are required, students will find familiarity with anatomy and/or physiology to be extremely beneficial.

- MATH 1442 - Statistics for Life **4 sem. hrs.** 1 (3 included in University Core)
- BIMS 4406 - Immunology **4 sem. hrs.**
- CHEM 4401 - Biochemistry I **4 sem. hrs.**

Total: 9

Pre-Clinical Laboratory Science Option—Clinical Courses

For generalist certification, students complete the 47 semester credit hours listed below:

- BIMS 3200 - Essentials for Applied Laboratory Sciences **2 sem. hrs.**
- BIMS 3102 - Essentials Laboratory for Clinical Laboratory Science **1 sem. hrs.**

- BIMS 4182 - Seminar – Clinical Correlations **1 sem. hrs.** *
- BIMS 4200 - Professional Skills for Clinical Laboratory Scientists **2 sem. hrs.**
- BIMS 4297 - Professional Practicum I **2 sem. hrs.** *
- BIMS 4325 - Clinical Chemistry I **3 sem. hrs.**
- BIMS 4326 - Clinical Chemistry II **3 sem. hrs.**
- BIMS 4370 - Clinical Bacteriology **3 sem. hrs.**
- BIMS 4380 - Introduction to the Clinical Laboratory Profession **3 sem. hrs.** *
- BIMS 4382 - Advanced Medical Laboratory Procedures **3 sem. hrs.** *
- BIMS 4420 - Hematology **4 sem. hrs.**
- BIMS 4430 - Clinical Immunology **4 sem. hrs.**
- BIMS 4371 - Clinical Microbiology **3 sem. hrs.**
- BIMS 4598 - Professional Practicum II **5 sem. hrs.** *
- BIMS 4599 - Professional Practicum III **5 sem. hrs.** *
- Other approved elective(s): **0-3 sem. hrs.** of upper-level mathematics and science electives to equal total of 120SCH; the additional electives must be approved by Clinical Laboratory Sciences Director.

Note:

Admission to courses identified with an asterisk (*) is limited to students who have a minimum GPA of 2.5, and who have a "C" or better in all prerequisite Biology, Chemistry, and Biomedical Sciences courses. Full-time students will be given preference for admission to these courses.

Clinical Laboratory Science Certification

The clinical laboratory scientist holds a key position in life-and-death matters involving the diagnosis and treatment of patients. Therefore, the practice of clinical laboratory science is regulated both from within the profession and, in some states, by law. In addition to the coursework for the baccalaureate degree, employment as a clinical laboratory scientist requires professional certification. A student may obtain one of three certifications in clinical laboratory science: generalist, clinical chemist, or medical microbiologist. Complete information (and an application for the certification examination in any area) may be obtained from the clinical laboratory science director. To apply for certification, a student must earn a "C" or better in all BIMS courses; and an interview and reference letters also may be required.

Clinical Laboratory Science at Texas A&M University-Corpus Christi is approved through the National Accrediting Agency for Clinical Laboratory Science.

C. Forensic Science Option

This interdisciplinary option allows students to prepare for careers in forensic science (including entrance into graduate programs in forensic science and related areas). Prospective students should be aware that employers in forensic science typically require employees to meet personal suitability requirements (e.g., honesty, integrity, and scientific objectivity). Background checks and drug tests similar to those required for law enforcement officers are likely to be a condition of employment. Students in this option must choose Calculus I (MATH 2413) to satisfy the University Core requirement in mathematics. Elective courses allow the student to begin to specialize in an emphasis area such as forensic biology (mainly biology and biomedical sciences courses), forensic chemistry (mainly chemistry courses), or general forensic science. A student's degree plan may include a maximum of six hours of internship, research, or independent study (e.g., BIMS 4295, BIMS 4299, BIMS 4396, or BIOL 4350). Students in this option must take a standardized assessment test during their senior year, prior to graduation.

Forensic Science Option—Required Courses

- BIMS 3200 - Essentials for Applied Laboratory Sciences **2 sem. hrs.**
- BIMS 3103 - Essentials Laboratory for Forensic Science **1 sem. hrs.**
- BIMS 3320 - Survey of Forensic Science **3 sem. hrs.**
- BIMS 3325 - Professional Practice in Forensic Science **3 sem. hrs.**
- BIMS 4340 - Forensic Science in Criminal Law **3 sem. hrs.**
- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**
- CHEM 3418 - Instrumental Analysis **4 sem. hrs.**
- CRIJ 4340 - Criminal Investigation **3 sem. hrs.**

- MATH 1442 - Statistics for Life **4 sem. hrs.** OR
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**

- MATH 2413 - Calculus I **4 sem. hrs.** 1 (3 hours included in University Core)

- PHYS 2425 - University Physics I **4 sem. hrs.** (preferred) OR
- PHYS 1401 - General Physics I **4 sem. hrs.**

- PHYS 2426 - University Physics II **4 sem. hrs.** (preferred) OR
- PHYS 1402 - General Physics II **4 sem. hrs.**

Total: 35-36

Forensic Science Option—Electives

Choose 18-19 semester credit hours from the electives listed below, including at least one course identified with an asterisk (*):

- BIMS 3401 - Pathophysiology **4 sem. hrs.**
- BIMS 3403 - Molecular Biology **4 sem. hrs.** *
- BIMS 4295 - Biomedical Practicum **2 sem. hrs.**
- BIMS 4299 - Directed Independent Research **1-2 sem. hrs.**
- BIMS 4395 - Forensic Science Internship **3 sem. hrs.**
- BIMS 4325 - Clinical Chemistry I **3 sem. hrs.**
- BIMS 4326 - Clinical Chemistry II **3 sem. hrs.**
- BIMS 4327 - Introduction to Toxicology **3 sem. hrs.**
- BIMS 4333 - Medical Entomology **3 sem. hrs.**
- BIMS 4396 - Directed Independent Study **1-3 sem. hrs.**
- BIMS 4406 - Immunology **4 sem. hrs.**
- BIMS 4410 - Histology **4 sem. hrs.**
- BIMS 4590 - Selected Topics **1-5 sem. hrs.** (with approval of faculty mentor)
- BIOL 2472 - Principles of Botany **4 sem. hrs.**
- BIOL 3410 - Cell Biology **4 sem. hrs.** *
- BIOL 3425 - Functional Anatomy **4 sem. hrs.**
- BIOL 3430 - Physiology **4 sem. hrs.**
- BIOL 4340 - Genomics, Proteomics and Bioinformatics **3 sem. hrs.**
- BIOL 4350 - Research and Design **3 sem. hrs.**

- BIOL 4371 - Population Genetics **3 sem. hrs.**
- BIOL 4407 - Biology of the Fungi **4 sem. hrs.**
- BIOL 4433 - Parasitology **4 sem. hrs.**
- BIOL 4435 - Biological Microtechniques **4 sem. hrs.**
- CHEM 3417 - Quantitative Analysis **4 sem. hrs.** *
- CHEM 4320 - Drugs, Toxins and Natural Products Chemistry **3 sem. hrs.**
- CHEM 4401 - Biochemistry I **4 sem. hrs.** *
- CHEM 4402 - Biochemistry II **4 sem. hrs.**
- CHEM 4407 - Advanced Inorganic Chemistry **4 sem. hrs.** *
- CHEM 4409 - Advanced Instrumental Analysis **4 sem. hrs.**
- CHEM 4420 - Physical Biochemistry **4 sem. hrs.**
- CHEM 4423 - Physical Chemistry I **4 sem. hrs.**
- CHEM 4424 - Physical Chemistry II **4 sem. hrs.**
- ENGL 3301 - Technical and Professional Writing **3 sem. hrs.**
- MATH 2414 - Calculus II **4 sem. hrs.** *
- Other approved elective(s) **12 sem. hrs.**

Minor

Although Biomedical Sciences does not offer a minor, many upper-division BIMS courses may count toward the Biology Minor (see the Biology section of this catalog). Students majoring in Biomedical Sciences **may not** minor in Biology.

Post-Baccalaureate Certificate

Clinical Laboratory Science Certification

The Clinical Laboratory Science Certification and Post-Baccalaureate CLS Courses:

The clinical laboratory scientist holds a key position in life-and-death matters involving the diagnosis and treatment of patients. Therefore, the practice of clinical laboratory science requires professional certification that is regulated both from within the profession and, in some states, by law. Clinical Laboratory Science at Texas A&M University-Corpus Christi is approved through the National Accrediting Agency for Clinical Laboratory Science. In addition to the coursework for the baccalaureate degree, professional certification as a clinical laboratory scientist requires the completion of post-baccalaureate courses. A student who has a baccalaureate degree in Biology, Biomedical Sciences, Chemistry, or Microbiology, or who is completing the requirements for such a degree, may obtain one of three post-baccalaureate certifications in clinical laboratory science: generalist, clinical chemist, or medical microbiologist. To apply for certification in any area, a student must complete those Pre-Clinical Laboratory Science Option courses required for certification in that area. Complete information may be obtained from the clinical laboratory science program director.

To apply for clinical laboratory science certification examinations, a student must earn a "C" or better in all BIMS courses. Application for certification programs should be made directly to the clinical laboratory sciences office. An interview and reference letters may be required. Contact a clinical laboratory science faculty mentor for additional information.

Minor

Biology Minor

The Biology Minor consists of 20 hours that give students a chance to explore the life sciences beyond core requirements. Only courses recommended for science majors count toward the Biology Minor.

Required Courses (eight hours)

- BIOL 1406 - Biology I **4 sem. hrs.**
- BIOL 1407 - Biology II **4 sem. hrs.**

At least three hours are chosen from the following four sophomore-level courses

- BIOL 2371 - Principles of Evolution **3 sem. hrs.**
- BIOL 2416 - Genetics **4 sem. hrs.**
- BIOL 2421 - Microbiology **4 sem. hrs.**
- BIOL 2472 - Principles of Botany **4 sem. hrs.**

Note:

Sophomore level hours in excess of the required three may count toward the minor, but lower-division courses other than those listed **will not** count toward the Biology Minor.

To complete the minor, students must take at least nine additional hours.

At least one course above the first-year level must include a laboratory component. A minor requires at least six hours of upper-division (3000-4000 level) courses. Students may take most upper-division courses with either the BIOL or BIMS prefix (if they have appropriate prerequisites), but the following courses **will not** count toward the Biology Minor:

- BIOL 3471 - Padre Island Ecology **4 sem. hrs.**
- BIOL 3472 - Marine Biology **4 sem. hrs.**
- BIOL 4100 - Research Ethics and Professionalism **1 sem. hrs.**
- BIOL 4292 - Senior Presentation **2 sem. hrs.**

- BIOL 4299 - Directed Independent Research **1-2 sem. hrs.** OR
- BIMS 4299 - Directed Independent Research **1-2 sem. hrs.**

- BIOL 4350 - Research and Design **3 sem. hrs.**

- BIOL 4396 - Directed Independent Study **1-3 sem. hrs.** OR
- BIMS 4396 - Directed Independent Study **1-3 sem. hrs.**

- BIOL 4590 - Selected Topics **1-5 sem. hrs.** OR
- BIMS 4590 - Selected Topics **1-5 sem. hrs.**

- BIMS 4200 - Professional Skills for Clinical Laboratory Scientists **2 sem. hrs.**
- BIMS 4382 - Advanced Medical Laboratory Procedures **3 sem. hrs.**
- BIMS 4111 - Contemporary Scientific Readings **1 sem. hrs.**
- BIMS 4170 - Biomedical Seminar **1 sem. hrs.**
- BIMS 4182 - Seminar – Clinical Correlations **1 sem. hrs.**
- BIMS 4295 - Biomedical Practicum **2 sem. hrs.**
- BIMS 4297 - Professional Practicum I **2 sem. hrs.**
- BIMS 4598 - Professional Practicum II **5 sem. hrs.**
- BIMS 4599 - Professional Practicum III **5 sem. hrs.**

(Students majoring in Biomedical Sciences **may not** minor in Biology.)

Total: 20 semester hours

Department of Mathematics and Statistics

Bachelor of Science

Mathematics, BS

The mission of the Mathematics Program at Texas A&M University-Corpus Christi is to increase the knowledge and use of mathematics by persons both at the University and in the surrounding area. We strive to educate students at the University so that they are prepared to use mathematics intelligently in their chosen fields of study and to understand mathematics as it affects their lives and participation in public affairs. In addition, the Mathematics Program provides its majors and graduate students with preparation for careers in education, science, and commerce, as well as providing a solid foundation for further study in mathematics. In support of the graduate program, the mathematics faculty pursues scholarship in mathematics, applications of mathematics, and instruction in mathematics. Finally, the Mathematics Program serves the community by providing its expertise to local schools, industry, and businesses.

Student Learning Outcomes

Students will:

- Demonstrate a command of principles of general mathematics at the undergraduate level.
- Recognize mathematics outside the realm of the classroom, and apply undergraduate level mathematical content as a matter of professional practice.
- Communicate mathematics effectively at the undergraduate level, in oral and written form, with appropriate use of technology.

There are three tracks for the degree: Secondary Mathematics Teaching, leading to teacher certification; Applied/Industrial Mathematics, preparing students for employment; and General Mathematical Studies; preparing students for further studies in mathematics. All options share a common core that consists of 32 hours of mathematics, physics and programming.

Placement and Prerequisites

Each new or transfer student entering Texas A&M University-Corpus Christi who plans to take a mathematics course will be evaluated by the University to determine the appropriate first mathematics course(s) for that student. For students who enter having successfully completed a college mathematics course, evaluation will normally be based on their college transcript. For a student who enters without having completed a college-level mathematics course, evaluation will normally be based on *both* that student's high-school transcript, *and* his or her score on standardized tests. For details on use of transcripts and scores for placement see the placement link on the Department webpage, http://math.tamucc.edu. Students may not enroll for their first mathematics course without having been placed into that course.

The requirements for a Bachelor of Science degree in Mathematics include at least 120 semester hours with a minimum of 45 upper-division hours. The total is divided as follows:

I. The Mathematics Major

	Sem. Hrs.
0. First Year Seminar	0-2
1. Core Curriculum Program	42
2. Mathematics Core	21
3. Mathematics Track Electives	18
4. Upper Math Electives	6-18
5. Minor or Career Emphasis	18-31
6. Electives (as needed to fulfill University graduation requirements)	2-15
	Total 120

The following describes each of the components of the mathematics major in more detail.

0. First Year Seminars (when applicable)

Full-time, first-year students are required to take the following courses. After confirming with an advisor, others may take electives instead.

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

1. University Core Curriculum

Mathematics major students will use the courses listed below to fulfill core requirements in the indicated areas.

The remaining 33 hours of coursework are to be selected from other Foundational Areas in the core. (see catalog section on University Core Curriculum Programs)

Life and Physical Sciences Foundational Component Area - 6 sem. hrs.

- PHYS 2425 - University Physics I (Lecture hours only. The 1 hour laboratory component applies to Electives.)
- PHYS 2426 - University Physics II (Lecture hours only. The 1 hour laboratory component applies to Electives.)

Mathematics Foundational Component Area - 3 sem. hrs.

- MATH 2413 - Calclulus I (Lecture hours only. The 1 hour laboratory component applies to the Mathematics Core Requirement.)

2. Mathematics Core

The following courses are required of all mathematics majors.

- MATH 2305 - Discrete Mathematics I **3 sem. hrs.**
- MATH 2413 - Calculus I **4 sem. hrs.** *
- MATH 2414 - Calculus II **4 sem. hrs.** * †
- MATH 3311 - Linear Algebra **3 sem. hrs.**
- MATH 3313 - Foundations of Number Theory **3 sem. hrs.**
- MATH 3470 - Calculus III **4 sem. hrs.**
- COSC 1330 - Programming for Scientists, Engineers, and Mathematicians **3 sem. hrs.**

Total: 21 (3 hours count in the Core Curriculum Program)

Note:

*May be waived with suitable placement; see placement section below for more details. Upper-division classes may be required to increase total upper-division hours to the university minimum. See the degree requirements section of the catalog for details.

† 3 hours of MATH 2413 - Calculus I apply to the University Core Curriculum. The 1 hour laboratory component applies to the Mathematics Core requirement.

3. Mathematics Track Electives

Electives must be selected in consultation with the faculty mentor and with department chair approval.

Secondary Mathematics Teaching Track

- MATH 3312 - College Geometry **3 sem. hrs.**
- MATH 3314 - Foundations of Real Numbers **3 sem. hrs.**
- MATH 3315 - Differential Equations **3 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**
- MATH 4306 - Modern Algebra **3 sem. hrs.**
- SMTE 4370 - Mathematics Education Topics I **3 sem. hrs.**

Total: 18

Applied/Industrial Mathematics and General Mathematics Studies Tracks

- MATH 3314 - Foundations of Real Numbers **3 sem. hrs.**
- MATH 3315 - Differential Equations **3 sem. hrs.**
- MATH 3345 - Statistical Modeling and Data Analysis **3 sem. hrs.**
- MATH 3385 - Linear Optimization and Decisions **3 sem. hrs.**

Choose two of the following

- MATH 4315 - Partial Differential Equations **3 sem. hrs.**
- MATH 4342 - Introduction to Mathematical Statistics **3 sem. hrs.**
- MATH 4385 - Applied Modeling **3 sem. hrs.**

Total: 18

4. Upper Math Electives

Upper elective courses are chosen to provide further depth of study in mathematics.

Secondary Mathematics Teaching and Applied/Industrial Tracks

- 6 sem. hrs. of upper-division mathematics

General Mathematics Studies Track

- 18 sem. hrs. of upper division mathematics

Total: 6 to 18

5. Minor or Career Emphasis

Students complete a major in mathematics with electives as needed. Mathematics majors must consult with a mathematics faculty mentor in choosing the electives and are advised to choose among two options. The first option is a minor, designed to provide a secondary concentration in an area of particular interest to the student, or of particular importance to his or her career plans. The second option designed for those students seeking secondary teaching certification, is a sequence of courses in Education. Details of each of these options are:

A minor consists of 18-23 specified semester hours in an approved subject. The student should consult the section of the catalog pertaining to the academic area of the minor for a description of the requirements in that discipline. If no description is provided, the minor is subject to the approval of the department containing the minor.

- Twenty-seven hours of courses as specified by the College of Education to meet SBEC requirements for certification. An additional 4 hours to complete a "Support Field" will be required. Consult the "Professional Development and Reading Sequence" of the BS in Mathematics—Grades 8-12 section of the SMTE portion of the catalog for more details.

Total: 18-31

6. Electives as needed to fulfill University graduation requirements.

Includes 2 hours of physics lab.

Total: 2-15 sem. hrs.

Teaching Certification in Mathematics

Students who wish to teach mathematics in grades 4-12 should explore the following certification options:

- Interdisciplinary Studies, BSIS — Grades 4-8 with Mathematics Certification
- Mathematics, BS — Grades 7-12 Mathematics Education Concentration
- Mathematics, Grades 7-12 Teacher Certification Without a Mathematics Major

Minor

Mathematics Minor

Students majoring in other academic fields who wish to earn a minor in mathematics must complete the following courses:

- MATH 2305 - Discrete Mathematics I **3 sem. hrs.**
- MATH 2413 - Calculus I **4 sem. hrs.** *
- MATH 2414 - Calculus II **4 sem. hrs.** *
- MATH 3311 - Linear Algebra **3 sem. hrs.**
- MATH 3470 - Calculus III **4 sem. hrs.**
- One upper division MATH elective **3 sem. hrs.**

Note:

*May be waived with suitable placement; see placement section below for more details.

If needed, upper-level mathematics electives must be taken to bring the total to 18 hours.

Total: 18-21

Department of Physical and Environmental Sciences

Bachelor of Science

Chemistry, BS

The chemistry faculty seeks to provide a high quality educational experience for students majoring in chemistry in preparation for industrial or government positions, for graduate study, and for entry to medical or dental schools. The program is also designed for those planning to teach chemistry or physics at the 7-12 level, or who need chemical knowledge and skills relevant to future studies in the sciences.

Student Learning Outcomes

Students will:

- Demonstrate a broad understanding of chemical concepts
- Analyze and interpret a variety of chemical data
- Communicate chemical information effectively at the undergraduate level, in oral and written form, with appropriate use of technology

The student who wishes to obtain a Bachelor of Science Degree in Chemistry may do so by following one of the four curriculum plans referred to as Concentrations. The options include general, environmental, biochemistry, and physical science education concentrations. Students who are pre-medical, pre-dental, pre-optometry, pre-pharmacy, or pre-veterinary medicine may follow the biochemistry concentration. In addition, the biochemistry concentration offers an option which would allow students to pursue certification in clinical chemistry while obtaining their Bachelors in Chemistry.

A prospective 7-12 physical science (chemistry or physics) teacher could obtain a BS in Chemistry while following the physical science education concentration. Details on the requirements for the physical science education concentration and for obtaining a teaching certificate are in the College of Science and Engineering: Science, Mathematics and Technology Education section of this catalog.

The BS in Chemistry requires at least 120 semester hours with a university required minimum number of 45 upper-division hours. Students may have to take additional hours to meet university general education requirements such as First-Year Seminar courses. The major consists of at least 52 semester hours (24 upper-division), some of which may be designated courses outside of chemistry. Every candidate for the BS in Chemistry following the general, environmental, or biochemistry concentration must complete the

CHEM 4085 - Major Field Test in Chemistry

during their senior year, prior to graduation. The details of the general, environmental, and biochemistry concentrations follow.

General Requirements

		Sem. Hrs.
I.	First-Year Seminars (when applicable)	(2)
II.	Core Curriculum Program	42
III.	Special Foundations	19
IV.	Chemistry Major	52
V.	Electives	7
		Total 120 (122)

I. First Year Seminars

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

II. Core Curriculum Program

Students majoring in chemistry should take Calculus I to fulfill the mathematics requirement of the University Core Curriculum. In addition, the university computer literacy requirements are met by all chemistry majors through the integration of computer applications and usage in most chemistry laboratory courses and as well as many of the lecture courses. Examples of how students enrolled in chemistry courses use computers are: as a scientific tool to gather physical data in labs using various sensors, and exporting that data to a spreadsheet; performing spreadsheet calculations using these data, which include algebraic, trigonometric, and statistical functions; graphing data using the spreadsheet; embedding graphs in lab reports and other written assignments written with Word; and use the internet for communication related to the course by subscribing to the class list, including using attachments, accessing web related content, and taking online quizzes. See catalog section on University Core Curriculum Programs.

Some of the Core Curriculum courses may also be included in the Special Foundations requirements.

Total: 42

III. Special Foundations

A. General Concentration

- PHYS 2425 - University Physics I **4 sem. hrs.** *
- PHYS 2426 - University Physics II **4 sem. hrs.** *
- Biology, Geology, or Environmental Science **8 sem. hrs.** *
- MATH 2413 - Calculus I **4 sem. hrs.** † *
- MATH 2414 - Calculus II **4 sem. hrs.** *
- MATH 3470 - Calculus III **4 sem. hrs.** *

Total: 16-28†

B. Environmental Concentration

- Physics, one year with laboratory **8 sem. hrs**.
- Biology, Geology, or Environmental Science **8 sem. hrs**.*
- MATH 1442 - Statistics for Life **4 sem. hrs.** †
- MATH 2413 - Calculus I **4 sem. hrs.** † *
- MATH 2414 - Calculus II **4 sem. hrs.**

Total: 16-28*

C-1. Biochemistry Concentration

- Physics, one year with laboratory **8 sem. hrs.**
- BIOL 1406 - Biology I **4 sem. hrs.** *
- BIOL 1407 - Biology II **4 sem. hrs.** *
- MATH 1442 - Statistics for Life **4 sem. hrs.** †
- MATH 2413 - Calculus I **4 sem. hrs.** † *
- MATH 2414 - Calculus II **4 sem. hrs.** *

Total: 16-28*

C-2. Biochemistry Concentration / Pre-Clinical Chemistry Certification

- Physics, one year with laboratory **8 sem. hrs.**
- BIOL 1406 - Biology I **4 sem. hrs.** † *
- BIOL 1407 - Biology II **4 sem. hrs.** † *
- MATH 1442 - Statistics for Life **4 sem. hrs.**
- MATH 2413 - Calculus I **4 sem. hrs.** † *
- MATH 2414 - Calculus II **4 sem. hrs.** *

Total: 16-28*

Note:

* Twelve of these hours may also be used to fulfill the University Core Curriculum science and mathematics requirements. In that case, the lesser total shown does not include the 12 hours applied to the core.

† Three of these 4-hour science and mathematics courses are required for all Chemistry students: BIOL 1406, BIOL 1407, and either MATH 1442 or MATH 2413). Only the 3 lecture hours of each will apply to the University Core Curriculum. Each one-hour laboratory component will be counted in the Chemistry Major.

IV. Chemistry Major

A. Chemistry General Concentration

- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- CHEM 1412 - General Chemistry II **4 sem. hrs.**
- CHEM 3411 - Organic Chemistry I **4 sem. hrs.**
- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**
- CHEM 3417 - Quantitative Analysis **4 sem. hrs.**
- CHEM 3418 - Instrumental Analysis **4 sem. hrs.**
- CHEM 4085 - Major Field Test in Chemistry **0 sem. hrs.**
- CHEM 4423 - Physical Chemistry I **4 sem. hrs.**
- CHEM 4424 - Physical Chemistry II **4 sem. hrs.**
- CHEM 4292 - Senior Chemistry Seminar **2 sem. hrs.**
- CHEM 4401 - Biochemistry I **4 sem. hrs.**
- CHEM 4407 - Advanced Inorganic Chemistry **4 sem. hrs.**

Students should select 10 hours from the following courses:

- CHEM 4320 - Drugs, Toxins and Natural Products Chemistry **3 sem. hrs.**
- CHEM 4344 - Chemical Oceanography **3 sem. hrs.**
- CHEM 4350 - Polymer Chemistry **3 sem. hrs.**
- CHEM 4402 - Biochemistry II **4 sem. hrs.**
- CHEM 4409 - Advanced Instrumental Analysis **4 sem. hrs.**
- CHEM 4443 - Environmental Chemistry **4 sem. hrs.**
- CHEM 4490 - Special Topics **1-4 sem. hrs.**
- CHEM 4696 - Directed Independent Study **1-6 sem. hrs.**

Total: 52

B. Environmental Chemistry Concentration

- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- CHEM 1412 - General Chemistry II **4 sem. hrs.**
- CHEM 3411 - Organic Chemistry I **4 sem. hrs.**
- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**
- CHEM 3417 - Quantitative Analysis **4 sem. hrs.**
- CHEM 3418 - Instrumental Analysis **4 sem. hrs.**
- CHEM 4085 - Major Field Test in Chemistry **0 sem. hrs.**
- CHEM 4292 - Senior Chemistry Seminar **2 sem. hrs.**
- CHEM 4344 - Chemical Oceanography **3 sem. hrs.**
- CHEM 4423 - Physical Chemistry I **4 sem. hrs.**
- CHEM 4424 - Physical Chemistry II **4 sem. hrs.**
- CHEM 4443 - Environmental Chemistry **4 sem. hrs.**

Students should select 11 hours from the following courses:

- CHEM 4350 - Polymer Chemistry **3 sem. hrs.**
- CHEM 4407 - Advanced Inorganic Chemistry **4 sem. hrs.**
- CHEM 4409 - Advanced Instrumental Analysis **4 sem. hrs.**
- CHEM 4490 - Special Topics **1-4 sem. hrs.**
- CHEM 4696 - Directed Independent Study **1-6 sem. hrs.**
- ESCI 4301 - Environmental Regulations **3 sem. hrs.**

- ESCI 4330 - Oil Spill Prevention and Response **3 sem. hrs.**
- ESCI 4370 - Hazardous Waste Operations and Emergency Response **3 sem. hrs.**

Total: 52

C-1. Biochemistry Concentration

- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- CHEM 1412 - General Chemistry II **4 sem. hrs.**
- BIOL 2416 - Genetics **4 sem. hrs.**
- BIOL 2421 - Microbiology **4 sem. hrs.**
- CHEM 3411 - Organic Chemistry I **4 sem. hrs.**
- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**
- CHEM 3417 - Quantitative Analysis **4 sem. hrs.**
- CHEM 3418 - Instrumental Analysis **4 sem. hrs.**
- CHEM 4085 - Major Field Test in Chemistry **0 sem. hrs.**
- CHEM 4292 - Senior Chemistry Seminar **2 sem. hrs.**
- CHEM 4401 - Biochemistry I **4 sem. hrs.**
- CHEM 4402 - Biochemistry II **4 sem. hrs.**
- CHEM 4423 - Physical Chemistry I **4 sem. hrs.**
- Biochemistry-related courses as approved by advisor **6 sem. hrs.**

Total: 52

C-2. Biochemistry Concentration / Pre-Clinical Chemistry Certification

- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- CHEM 1412 - General Chemistry II **4 sem. hrs.**
- CHEM 3411 - Organic Chemistry I **4 sem. hrs.**
- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**
- CHEM 3417 - Quantitative Analysis **4 sem. hrs.**
- CHEM 3418 - Instrumental Analysis **4 sem. hrs.**
- CHEM 4085 - Major Field Test in Chemistry **0 sem. hrs.**
- CHEM 4401 - Biochemistry I **4 sem. hrs.**
- CHEM 4402 - Biochemistry II **4 sem. hrs.**
- CHEM 4423 - Physical Chemistry I **4 sem. hrs.**
- BIOL 2416 - Genetics **4 sem. hrs.**

- BIOL 2421 - Microbiology **4 sem. hrs.**
- BIOL 3430 - Physiology **4 sem. hrs.**
- BIMS 3401 - Pathophysiology **4 sem. hrs.**

Total: 44

Pre-Clinical Chemistry

- BIMS 3102 - Essentials Laboratory for Clinical Laboratory Science **1 sem. hrs.**
- BIMS 3200 - Essentials for Applied Laboratory Sciences **2 sem. hrs.**
- BIMS 4200 - Professional Skills for Clinical Laboratory Scientists **2 sem. hrs.**
- BIMS 4325 - Clinical Chemistry I **3 sem. hrs.**
- BIMS 4326 - Clinical Chemistry II **3 sem. hrs.**
- BIMS 4380 - Introduction to the Clinical Laboratory Profession **3 sem. hrs.**
- BIMS 4382 - Advanced Medical Laboratory Procedures **3 sem. hrs.**
- BIMS 4598 - Professional Practicum II **5 sem. hrs.**

Total: 21

D. Physical Science Education Concentration

Information on the physical science education concentration and requirements for teaching certification can be found in the College of Science and Engineering: Science, Mathematics and Technology Education section of the catalog.

V. Electives

Courses may be selected from any area to accumulate a total of 120 semester hours with the required number of upper-division hours. In some cases these hours may be used to obtain a minor in another subject.

Environmental Science, BS

Introduction

The mission of the Bachelor of Science program in Environmental Science is to educate students to succeed in their chosen careers, to transfer environmental knowledge to the community and to peers, and to provide an environmentally literate workforce and citizenry. The program is intended to provide the environmental science major with a broad foundation in the sciences and mathematics, as well as specialized knowledge in marine and coastal resources, Earth system science,

environmental health and monitoring, policy and regulations, and science education concentration areas. The environmental science curriculum prepares students for career positions in environmental science or science education, or for further professional development.

Student learning outcomes

Students will:

- Demonstrate a command of environmental science concepts and principles at the undergraduate level.
- Analyze and interpret a variety of environmental science data, and
- Communicate environmental science information effectively at the undergraduate level, in oral and written form, with appropriate use of technology.

Students who wish to obtain a Bachelor of Science degree in Environmental Science may do so by following one of five curriculum plans referred to as concentrations. The concentration options include Earth systems science, marine and coastal resources, environmental health and monitoring, policy and regulations, and science education. A prospective 4-8 level science teacher could obtain a BS in Environmental Science while following the science education concentration. Information on the BS in Environmental Science - Science Education Concentration is found in the College of Science and Engineering Science, Mathematics and Technology Education section of the catalog. Details of the requirements for obtaining a teaching certificate are provided in the College of Education section of this catalog. In addition to COSC 1315 and COSC 1325, Environmental Science majors may apply any of the following courses to satisfy the university computer literacy requirement: PHYS 1401, PHYS 1402, PHYS 2425, and PHYS 2426.

Earth Systems Science, Marine and Coastal Resources, Environmental Health and Monitoring, and Policy and Regulations Concentrations

The minimum requirement for a Bachelor of Science Degree in Environmental Science with a concentration in Earth systems science, marine and coastal resources, environmental health and monitoring, or policy and regulations is a total of 120 hours.

The degree requirements are divided among the following areas:

	Sem. Hrs.
A. First-Year Seminars (when applicable)	(2)
B. University Core Curriculum Program	42
C. Foundation Courses	22
D. Major Requirements	24
E. Basic Mathematics (and Statistics) Requirement	1
F. Concentration Area	31
	Total 120 (122)

A. First-Year Seminars

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**

- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Total: (2)

B. University Core Curriculum

See University Core Curriculum Programs. The mathematics course should be MATH 1442 - Statistics for Life or MATH 2413 - Calculus I, depending on concentration area. Please consult the faculty advisor for specific details.

Total: 42

C. Foundation Courses

No foundation courses may be taken on a pass/no pass (P/NP) basis.

- ESCI 1401 - Environmental Science I: Intro to Environmental Science **4 sem. hrs.** (3 sem. hrs. & **1 sem. hr.)***
- BIOL 1406 - Biology I **4 sem. hrs.** (3 sem. hrs. & **1 sem. hr.)***
- GEOL 1403 - Physical Geology **4 sem. hrs.**
- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- CHEM 1412 - General Chemistry II **4 sem. hrs.**
- GISC 1470 - Geospatial Systems I **4 sem. hrs.**

*Three hours (each) of ESCI 1401 - Environmental Science I: Intro to Environmental Science and BIOL 1406 - Biology I are counted in the University Core; the other 1 hour (of each) is counted in the Foundation Courses.

Choose one – depends on concentration:

- PHYS 1401 - General Physics I **4 sem. hrs.**
  or
- PHYS 2425 - University Physics I **4 sem. hrs.**

Total: 22

D. Major Requirements

- ESCI 3202 - Professional Skills **2 sem. hrs.**

- ESCI 3351 - Oceanography **3 sem. hrs.**
- ESCI 3403 - Introduction to Meteorology **4 sem. hrs.**
- ESCI 4335 - Climate and Climate Variability **3 sem. hrs.**
- ESCI 4498 - Internship in Environmental Science **2 sem. hrs.** *
- ESCI 4202 - Issues in Environmental Science **2 sem. hrs.**

*The program requires a minimum of 2 hours of ESCI 4498 - Internship in Environmental Science to satisfy the Major Requirements; however additional hours of credit may be applied towards the Designated Electives in a Concentration Area, with approval of the student's faculty mentor.

Choose two (requires written approval of faculty mentor): 8

- ESCI 3443 - Environmental Biology **4 sem. hrs.**
- GEOL 3443 - Environmental Geology **4 sem. hrs.**
- CHEM 4443 - Environmental Chemistry **4 sem. hrs.**

Total: 24

E. Basic Mathematics (and Statistics) Requirement

Each student is required to take a statistics course. This may be either algebra-based statistics, MATH 1442 - Statistics for Life, or calculus-based statistics, MATH 3342 - Applied Probability and Statistics, depending on the student's concentration area. MATH 2413 - Calculus I is a prerequisite for MATH 3342 - Applied Probability and Statistics. Please consult the faculty advisor for specific details. When MATH 3342 - Applied Probability and Statistics is required, its hours are included in the appropriate Concentration Area.

Three hours of MATH 1442 - Statistics for Life or MATH 2413 - Calculus I count in the University Core (the other 1 hour counts in this section).

Total: 1

F. Concentration Area

Students must take a total of 31 semester hours in prescribed courses and electives to complete a concentration in Earth systems science, marine and coastal resources, environmental health and monitoring, or policy and regulations. Designated electives must be approved in writing by the student's faculty mentor. Students are strongly encouraged to consult their faculty mentor regularly.

1. Earth System Science Concentration

This concentration is appropriate for students preparing for careers in earth system science, meteorology, or other fields. Students preparing for graduate school are strongly encouraged to take additional hours in consultation with their faculty mentor. Additional courses in Mathematics are strongly recommended.

In addition to the courses listed below, students choosing this concentration must take Calculus I (MATH 2413) as part of the University Core requirements. They must take University Physics I (PHYS 2425) as part of the Foundations requirements.

Requirements

- PHYS 2426 - University Physics II **4 sem. hrs.**
- MATH 2414 - Calculus II **4 sem. hrs.**
- MATH 3311 - Linear Algebra **3 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**

One of the following:

- CHEM 3411 - Organic Chemistry I **4 sem. hrs.** OR
- CHEM 4423 - Physical Chemistry I **4 sem. hrs.**

Designated Electives 13

Additional hours selected from the following list, with written approval of a student's faculty mentor. Must include at least 10 upper-level hours.

- BIOL 3428 - Principles of Ecology **4 sem. hrs.**
- ESCI 4360 - Physical Oceanography **3 sem. hrs.**
- MATH 2305 - Discrete Mathematics I **3 sem. hrs.**
- MATH 3315 - Differential Equations **3 sem. hrs.**
- MATH 3470 - Calculus III **4 sem. hrs.**
- GEOL 3442 - Geomorphology **4 sem. hrs.**
- GEOL 4316 - Marine Geoscience **3 sem. hrs.**
- GEOL 4411 - Sedimentation and Stratigraphy **4 sem. hrs.**
- GEOL 4444 - Hydrogeology **4 sem. hrs.**
- GISC 3421 - Visualization for GIS **4 sem. hrs.**
- Approved elective **1-5 sem. hrs.**

Total: 31

2. Marine and Coastal Resources Concentration

This concentration is appropriate for students planning careers in marine and coastal resources research or management. Students preparing for graduate school are strongly encouraged to take additional hours in consultation with their faculty mentor.

In addition to the courses listed below, students choosing this concentration must take either Statistics for Life (MATH 1442) or Calculus I (MATH 2413) as part of the University Core requirements. MATH 2413 is strongly recommended for students anticipating graduate school or research careers; also, it is a prerequisite to some of the optional courses listed below under the concentration. If MATH 1442 is not taken, then MATH 3342 is required from the designated elective hours. Students may take either Physics I (PHYS 1401) or University Physics I (PHYS 2425) as part of the Foundations requirements.

Requirements

- BIOL 1407 - Biology II **4 sem. hrs.**
- BIOL 3428 - Principles of Ecology **4 sem. hrs.**
- ESCI 4301 - Environmental Regulations **3 sem. hrs.**

Designated Electives 20

Additional hours selected from the following list, with written approval of a student's faculty mentor. Must include at least 11 upper-level hours.

- BIOL 2421 - Microbiology **4 sem. hrs.**
- BIOL 4405 - Limnology **4 sem. hrs.**
- BIOL 4436 - Marine Ecology **4 sem. hrs.**
- BIOL 4444 - Estuarine Organisms **4 sem. hrs.**
- CHEM 3411 - Organic Chemistry I **4 sem. hrs.**
- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**
- ESCI 4330 - Oil Spill Prevention and Response **3 sem. hrs.**
- CHEM 4344 - Chemical Oceanography **3 sem. hrs.**
- CHEM 4443 - Environmental Chemistry **4 sem. hrs.**
- ESCI 4360 - Physical Oceanography **3 sem. hrs.**
- ESCI 4498 - Internship in Environmental Science **2 sem. hrs.**
- GEOL 3442 - Geomorphology **4 sem. hrs.**
- GEOL 4411 - Sedimentation and Stratigraphy **4 sem. hrs.**
- GEOL 4436 - Introduction to Petroleum Geology **4 sem. hrs.**
- GEOL 4444 - Hydrogeology **4 sem. hrs.**
- GISC 2301 - Geospatial Systems II **3 sem. hrs.**
- GISC 3421 - Visualization for GIS **4 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**
- PHYS 1402 - General Physics II **4 sem. hrs.**
- Approved electives **1-5 sem. hrs.**

Total: 31

3. Environmental Health and Monitoring Concentration

This concentration is appropriate for students planning careers in environmental health, environmental assessment and remediation, and environmental management. Students preparing for graduate school are strongly encouraged to take additional hours in consultation with their faculty mentor.

In addition to the courses listed below, students choosing this concentration must take either Statistics for Life (MATH 1442) or Calculus I (MATH 2413) as part of the University Core requirements. MATH 2413 is strongly recommended for students anticipating graduate school or research careers; also, it is a prerequisite to some of the optional courses listed below under the concentration. If MATH 1442 is not taken, then MATH 3342 is required from the designated-elective hours. Students may take either Physics I (PHYS 1401) or University Physics I (PHYS 2425) as part of the Foundations requirements.

Requirements

- BIOL 1407 - Biology II **4 sem. hrs.**
- BIOL 2421 - Microbiology **4 sem. hrs.**
- ESCI 4301 - Environmental Regulations **3 sem. hrs.**
- ESCI 4320 - Environmental Health **3 sem. hrs.**
- CHEM 3411 - Organic Chemistry I **4 sem. hrs.**

Designated Electives 13

Additional hours selected from the following list, with written approval by a student's faculty mentor. Must include at least 10 upper-level hours.

- BIOL 3430 - Physiology **4 sem. hrs.**
- BIOL 4407 - Biology of the Fungi **4 sem. hrs.**

- BIOL 4408 - Microbial Diversity and Ecology **4 sem. hrs.** OR
- ESCI 4408 - Environmental Microbiology **4 sem. hrs.**

- BIOL 4406 - Immunology **4 sem. hrs.** OR
- BIMS 4406 - Immunology **4 sem. hrs.**

- BIOL 4433 - Parasitology **4 sem. hrs.**
- BIOL 4436 - Marine Ecology **4 sem. hrs.**
- BIMS 4327 - Introduction to Toxicology **3 sem. hrs.**
- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**
- CHEM 3417 - Quantitative Analysis **4 sem. hrs.**
- CHEM 3418 - Instrumental Analysis **4 sem. hrs.**
- ESCI 4370 - Hazardous Waste Operations and Emergency Response **3 sem. hrs.**
- ESCI 4330 - Oil Spill Prevention and Response **3 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**
- Approved electives **1-5 sem. hrs**

Total: 31

4. Policy and Regulations Concentration

This concentration is appropriate for students anticipating careers in environmental or natural resource regulation or environmental law. Students preparing for graduate school are strongly encouraged to take additional hours in consultation with their faculty mentor.

In addition to the courses listed below, students choosing this concentration must take either Statistics for Life (MATH 1442) or Calculus I (MATH 2413) as part of the University Core requirements. MATH 2413 is strongly recommended for students anticipating graduate school or research careers; also, it is a prerequisite to some of the optional courses listed below under the concentration. If MATH 1442 is not taken, then MATH 3342 is required from the designated-elective hours. Students may take either Physics I (PHYS 1401) or University Physics I (PHYS 2425) as part of the Foundations requirements.

Requirements

- BIOL 3428 - Principles of Ecology **4 sem. hrs.**
- ESCI 4301 - Environmental Regulations **3 sem. hrs.**
- ESCI 4320 - Environmental Health **3 sem. hrs.**

Designated Electives 21

Additional hours selected from the following list; with written approval by a student's faculty mentor. Must include at least 8 upper-level hours.

- ESCI 4370 - Hazardous Waste Operations and Emergency Response **3 sem. hrs.**
- ESCI 4330 - Oil Spill Prevention and Response **3 sem. hrs.**
- POLS 3313 - The Legislative Process **3 sem. hrs.**
- POLS 3342 - Introduction to Public Policy **3 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**
- Approved electives **6-9 sem. hrs.**

Total: 31

Science Education Concentration

Information on the Bachelor of Science Degree in Environmental Science with a science education concentration is found in the College of Science and Engineering Science, Mathematics and Technology Education section of the catalog.

Geology, BS

I. Introduction

The mission of the Geology Program is to provide integrated and process-oriented curricula, based on fundamental scientific principles and processes that enable graduates to pursue challenging careers and maintain lifelong learning. The Geology Program is designed to serve students majoring in geology and environmental science as well as students in other fields who are interested in adding to their knowledge of the Earth. Support is also provided for students preparing to earn certification for teaching at the K-12 level, and interested non-science majors. Members of the geoscience faculty provide majors with a broad overview of geologic processes while offering the opportunity to pursue specialized knowledge in selected areas of geoscience in preparation for graduate study and careers in government, industry, or academia.

Students can earn a Bachelor of Science degree in Geology by following the degree plan for geology majors as described below. Students considering certification for 4-8 level science teaching should consult the Science, Mathematics and Technology Education (SMTE) section of this catalog. In addition to COSC 1315 and COSC 1325, Geology majors may apply any of the following courses to satisfy the university computer literacy requirement: PHYS 1401, PHYS 1402, PHYS 2425, and PHYS 2426.

Student learning outcomes

Students will:

- show competence in scientific inquiry, writing, and oral presentation;
- demonstrate a broad understanding of major concepts central to the geological sciences;
- demonstrate competency and be able to apply field and laboratory methods, perform data analysis, and utilize computer applications relevant to the geological sciences;
- be employable in geology-related fields, or able to continue their education in graduate programs;
- be able to evaluate and critically discuss issues related to geology that impact society.

Geology Major

The minimum requirement for a Bachelor of Science Degree in Geology is a total of 120 hours, divided among the following areas:

	Sem. Hrs
I. University Core	42
(and First-Year Seminars)	(2)
II. Supporting Courses	14
III. Geology Core	57
IV. Electives	7
	Total 120 (122)

I. University Core and First-Year Seminars

See catalog section on University Core Curriculum Programs 42 Sem. Hrs.*

Please consult the faculty advisor for specific details.

Full-time first-year students must take

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Note:

*Students majoring in geology should take Calculus I to fulfill the mathematics requirement of the Core Curriculum Program.

II. Supporting Courses

Supporting courses may not be taken on a pass/no pass (P/NP) basis.

- CHEM 1411 - General Chemistry I **4 sem. hrs.** **
- CHEM 1412 - General Chemistry II **4 sem. hrs.** **
- PHYS 1401 - General Physics I **4 sem. hrs.** **
- PHYS 1402 - General Physics II **4 sem. hrs.** **
  OR
- PHYS 2425 - University Physics I **4 sem. hrs.** **
- PHYS 2426 - University Physics II **4 sem. hrs.** **

- MATH 2413 - Calculus I **4 sem. hrs.** **
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**

Total: 14-26

Note:

**Twelve of these hours may be used to fulfill the University Core Curriculum science and mathematics requirements. In that case, the lesser total shown does not include the 12 hours applied to the core. The additional one hour laboratory components will be counted in the supporting courses.

III. Geology Core

- GEOL 1403 - Physical Geology **4 sem. hrs.**
- GEOL 1404 - Historical Geology **4 sem. hrs.**
- GEOL 2102 - Undergraduate Seminar in Geology-Careers in the Geosciences **1 sem. hrs.**
  OR
- GEOL 2103 - Undergraduate Seminar in Geology-Research in the Geosciences **1 sem. hrs.**
- GEOL 3326 - Introduction to Geological Field Methods **3 sem. hrs.**

- GEOL 3411 - Mineralogy **4 sem. hrs.**
- GEOL 3414 - Igneous and Metamorphic Petrology **4 sem. hrs.**
- GEOL 3441 - Invertebrate Paleontology **4 sem. hrs.**
- GEOL 3442 - Geomorphology **4 sem. hrs.**
- GEOL 4411 - Sedimentation and Stratigraphy **4 sem. hrs.**
- GEOL 4421 - Structural Geology **4 sem. hrs.**
- GEOL 4650 - Field Geology **6 sem. hrs.**

Total: 42

Choose 15 semester hours from the courses listed below. All courses selected must be approved by the student's faculty mentor in writing.

- GEOL 2101 - Geological Field Explorations **1 sem. hrs.**
- GEOL 3329 - Geology of National Parks **3 sem. hrs.**
- GEOL 3443 - Environmental Geology **4 sem. hrs.**
- GEOL 4316 - Marine Geoscience **3 sem. hrs.**
- GEOL 4322 - Geophysics **3 sem. hrs.**
- GEOL 4326 - Field Seminar in Geology **3 sem. hrs.**
- GEOL 4415 - Economic Geology **4 sem. hrs.**
- GEOL 4416 - Introduction to Geochemistry **4 sem. hrs.**
- GEOL 4321 - Introduction to Soil and Groundwater Restoration **3 sem. hrs.**
- GEOL 4430 - Internship in Geology **1-4 sem. hrs.**
- GEOL 4436 - Introduction to Petroleum Geology **4 sem. hrs.**
- GEOL 4444 - Hydrogeology **4 sem. hrs.**
- GEOL 4490 - Selected Topics **1-4 sem. hrs.**

IV. Additional Electives

Additional upper-level courses selected in consultation with a student's faculty mentor. Electives may be from Biology, Chemistry, Computer Science, Environmental Science, Geographic Information Science, Geology, Mathematics, Physics, or other appropriate areas.

In addition to the upper-level course electives listed above, it is highly recommend that students planning on attending graduate school upon graduation take additional math courses (e.g. MATH 2414) required by many graduate programs.

Total: 7

Optional Minor in Another Subject

Geology majors may choose to complete a minor in an approved subject. Course requirements for the minor involve at least 18 semester hours, and the content is specified by faculty in the minor field. Minors in biology, chemistry, computer science, environmental science, geographic information science, and mathematics are generally appropriate for geology majors. Minors in other disciplines or combination minors may be arranged in consultation with the academic advisor.

Physics, BS

Introduction

The Joint BS Physics degree is a Bachelor of Science degree with a Physics major, provided through the joint efforts of physics faculty both here at TAMUCC and at other schools in the Texas Physics Consortium (TPC). Interested students are encouraged to visit the TPC website at http://www.tarleton.edu/tpc/. Upper-level physics courses can originate at any of the TPC schools, and students at any of the other TPC schools can take them via distance education.

Physics courses are offered in support of other major study areas in the sciences, mathematics, computer science, engineering and technology, and 8-12 level physical science teaching certification.

Student Learning Outcomes

Students obtaining the Joint BS in Physics will:

- possess a broad understanding of physics.
- understand scientific methods and be able use them to develop and conduct studies of physical systems.
- communicate physical information effectively at the undergraduate level, whether the communication is in oral or written form, with or without the use of technology.

General Requirements

		Sem. Hrs.
I.	First-Year Seminars (when applicable)	(2)
II.	Core Curriculum Program	42
III.	Supporting Courses	16
IV.	Physics Major	28
V.	Electives	34
		120 (122)

I. First Year Seminars

All full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**

- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

II. Core Curriculum Program

Students majoring in physics must take the following courses to fulfill the corresponding requirements of the University Core Curriculum. See catalog section on University Core Curriculum Programs.

- MATH 2413 - Calculus I **4 sem. hrs.** *
- PHYS 2425 - University Physics I **4 sem. hrs.** *
- PHYS 2426 - University Physics II **4 sem. hrs.** *

  * Only 3 sem. hrs. of each of these courses count toward the Core Curriculum, so these courses are also listed below.

Total: 42

III. Supporting Courses

These courses from outside the Physics program are required as part of the Joint BS in Physics degree. These courses may not be taken on a pass/no pass (P/NP) basis.

- MATH 2413 - Calculus I **4 sem. hrs.** *

  * Three sem. hrs. of MATH 2413 were included in the University Core Curriculum tally above, and these are not included in the total in this section.
- MATH 2414 - Calculus II **4 sem. hrs.**
- MATH 3470 - Calculus III **4 sem. hrs.**
- MATH 3315 - Differential Equations **3 sem. hrs.**
- COSC 1435 - Introduction to Problem Solving with Computers I **4 sem. hrs.**

Total: 16

IV. Physics Major

- PHYS 2425 - University Physics I **4 sem. hrs.** *
- PHYS 2426 - University Physics II **4 sem. hrs.** *

  * Six sem. hrs. of University Physics were used to fulfill the University Core Curriculum natural sciences requirement. These are not included in the total.
- PHYS 3331 - Mechanics I **3 sem. hrs.**
- PHYS 3334 - Modern Physics I **3 sem. hrs.**
- PHYS 3332 - Electromagnetism **3 sem. hrs.**

- PHYS 3333 - Thermodynamics **3 sem. hrs.**
- PHYS 4330 - Mathematical Methods for Physicists **3 sem. hrs.**
- PHYS 4335 - Quantum Physics **3 sem. hrs.**
- PHYS 4337 - Nuclear Physics **3 sem. hrs.**
- PHYS 4340 - Physics Advanced Lab **3 sem. hrs.**
- PHYS 4161 - Physics Research Project **1 sem. hrs.**
- PHYS 4162 - Physics Research Seminar **1 sem. hrs.**

Total: 28

V. Electives

- PHYS 3490 - Selected Topics: Advanced Physics Electives **6 sem. hrs.**
- Support Field Electives **18 sem. hrs.**
- General Electives **10 sem. hrs.**

The Advanced Physics Electives consist of two courses in upper-level physics selected by the student from a small number of available courses in the Texas Physics Consortium. See the TPC web page (www.tarleton.edu/tpc/) for the schedule of which courses are being offered in the current and future semesters. The course will be used for these offerings.

The Support Field enables students the flexibility to tailor their degree to meet various academic and career goals, including teaching certification and interdiciplinary studies. The courses must be chosen in consultation with their physics faculty advisor. For students transferring into the Physics Major, these courses may be selected from those already taken from the student's former major.

The General Electives can include additional science, mathematics, or engineering courses, chosen with approval of the student's faculty mentor.

The Support Field Electives should be chosen from the following courses:

- COSC 1436 - Introduction to Problem Solving with Computers II **4 sem. hrs.**
- ENGR 3315 - Fluid Mechanics **3 sem. hrs.**
- ESCI 3351 - Oceanography **3 sem. hrs.**
- ESCI 4335 - Climate and Climate Variability **3 sem. hrs.**
- ESCI 4360 - Physical Oceanography **3 sem. hrs.**
- MATH 3311 - Linear Algebra **3 sem. hrs.**
- MEEN 3345 - Heat Transfer **3 sem. hrs.**

Total: 34

Minor

Chemistry Minor

Students majoring in other academic fields who wish to earn a minor in chemistry must complete the following requirements:

- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- CHEM 1412 - General Chemistry II **4 sem. hrs.**
- CHEM 3411 - Organic Chemistry I **4 sem. hrs.**
- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**

One from the following:

- CHEM 3417 - Quantitative Analysis **4 sem. hrs.**
- CHEM 3418 - Instrumental Analysis **4 sem. hrs.**

Advanced CHEM elective 3

Total: 23

Environmental Science Minor

Students majoring in other academic fields who wish to earn a minor in environmental science must complete the following requirements:

- ESCI 3443 - Environmental Biology **4 sem. hrs.**
- CHEM 4443 - Environmental Chemistry **4 sem. hrs.**
- GEOL 3443 - Environmental Geology **4 sem. hrs.**
- ESCI 4301 - Environmental Regulations **3 sem. hrs.**

Two from the following:

- BIOL 2472 - Principles of Botany **4 sem. hrs.**

- BIOL 3413 - Invertebrate Zoology **4 sem. hrs.**
  OR
- BIOL 3414 - Vertebrate Zoology **4 sem. hrs.**

- CHEM 1411 - General Chemistry I **4 sem. hrs.** and
- GEOL 1403 - Physical Geology **4 sem. hrs.**

Total: 23

Note:

Students wishing to minor in environmental science should consult the appropriate section of the catalog to determine any additional prerequisites needed before they may take these courses.

Geology Minor

Students majoring in other academic fields who wish to earn a minor in geology must complete the following requirements:

- GEOL 1403 - Physical Geology **4 sem. hrs.**
- GEOL 1404 - Historical Geology **4 sem. hrs.**
- GEOL 3411 - Mineralogy **4 sem. hrs.**
- GEOL 3443 - Environmental Geology **4 sem. hrs.**
- GEOL 4421 - Structural Geology **4 sem. hrs.**

Total: 20

Note:

Other approved geology courses may be substituted for any of the above courses.

Physics Minor

Introduction

A minor in physics is offered for students who are interested in a broad foundation in classical and modern physics. For students majoring in physical sciences, geographic information science, engineering and technology, the physics minor offers a solid foundational base in the application of fundamental physical laws in their disciplines. It provides training in computation and applied mathematics for computer science and mathematics students.

Minor in Physics

The following courses are required for a minor in physics:

- PHYS 2425 - University Physics I **4 sem. hrs.**
- PHYS 2426 - University Physics II **4 sem. hrs.**

12 hours of courses selected from the following:

- PHYS 3331 - Mechanics I **3 sem. hrs.**
- PHYS 3332 - Electromagnetism **3 sem. hrs.**
- PHYS 3333 - Thermodynamics **3 sem. hrs.**
- PHYS 3334 - Modern Physics I **3 sem. hrs.**
- PHYS 4330 - Mathematical Methods for Physicists **3 sem. hrs.**
- PHYS 4335 - Quantum Physics **3 sem. hrs.**
- PHYS 3490 - Selected Topics **1-4 sem. hrs.**
  only if the topics selected are from the following:
  Waves of Optics
  Advanced Modern Physics

Total: 20

Interdisciplinary Program: General Science

Interdisciplinary Program: Geography

Minor

Geography Minor

I. Introduction

A multidisciplinary Geography minor offers undergraduate students in-depth study of Geography, and is designed to complement other undergraduate programs at the University. The purpose of the Geography minor is to give students an understanding of the breadth of the discipline of geography, the tools of geography, and an appreciation for how physical and human geography impacts issues in politics, economics, and the environment. Students electing a minor in Geography should, prior to completing 6 hours of course work for the program, contact the College of Science and Engineering to be assigned an advisor for the minor. The advisor will aid the student in filing a minor plan for certification by the Dean of the College in which the major field of study degree will be awarded.

Requirements for a Minor in Geography

A minimum of 18 semester hours of course work from the following courses is required for the minor. Electives for the minor must be selected from courses outside your major. Students must maintain an overall grade point average of 2.0 in courses in the minor in order to graduate with a minor in Geography.

II. Minor in Geography

The following courses are required for a minor in geography: (13 semester hours)

- GEOG 1300 - World Geography **3 sem. hrs.**
- GEOG 3331 - Geography of North America **3 sem. hrs.**

- GEOG 1470 - Geographic Information Systems I **4 sem. hrs.** OR
- GISC 1470 - Geospatial Systems I **4 sem. hrs.**

Electives: (5 semester hours)

- GEOL 1403 - Physical Geology **4 sem. hrs.**
- ANTH 3301 - Cultural Anthropology **3 sem. hrs.**
- GISC 3421 - Visualization for GIS **4 sem. hrs.**
- ESCI 3351 - Oceanography **3 sem. hrs.**
- ESCI 3403 - Introduction to Meteorology **4 sem. hrs.**
- GEOL 3442 - Geomorphology **4 sem. hrs.**
- GISC 4431 - Remote Sensing **4 sem. hrs.**

Note:

The Geography and Anthropology courses are offered by the College of Liberal Arts. The other courses that can be applied toward the minor are offered by the College of Science and Engineering.

Interdisciplinary Program: Science, Mathematics and Technology Education

Bachelor of Science

Biology, BS — Grades 7-12 Life Science Education Concentration

I. Introduction

The College of Science and Engineering is committed to the support of students seeking to become science, mathematics and technology educators at all levels. The Science, Mathematics and Technology Education (SMTE) program offers content courses for students seeking K-12 science, mathematics and technology education. SMTE classes are also an integral part of the course work for degrees preparing students for Teacher Certifications. The SMTE program does not offer a degree; rather, degrees leading to Teacher Certification are offered by other Science and Engineering programs and by the College of Education. Students seeking to teach in the elementary and secondary schools of Texas must meet degree requirements as well as certification requirements. The requirements and procedure to become a science, mathematics or technology teacher in Texas are outlined below. Undergraduate students who are graduating from the College of Science & Engineering or the College of Liberal Arts who are seeking initial teacher certification at the 4-8, 7-12 and EC-12 levels prior to graduation, automatically qualify for the Minor in Education.

II. How to Become a Science, Mathematics or Technology Teacher in Texas

In order to be recommended for teacher certification at this university, a candidate must fulfill three basic requirements: (1) have a bachelor's degree from an accredited college or university that includes an academic major and teacher training courses, (2)

complete teacher training through an approved program, and (3) successfully complete the appropriate teacher certification tests for the subject and grade level that the candidate wishes to teach. Additional information on the requirements to become a teacher in Texas can be obtained at the State Board of Educator Certification (SBEC) website: http://www.sbec.state.tx.us/SBECOnline/certinfo/becometeacher.asp. This website also provides information on the resources available to help students pay for a teacher training program.

SBEC has approved three levels of teacher certification for regular educators: (1) Early childhood to grade 6 which includes foundation subjects and enrichment areas such as art, PE, and music, (2) Grade 4-8 which includes the foundation areas only, and (3) Grade 7-12 certification. Students can find information on the different certifications at the official Texas Examinations of Educator Standards (TExES) Web site: http://www.texes.ets.org. Texas A&M University-Corpus Christi offers several degrees leading to a number of these teacher certifications. The College of Education offers several degrees leading to teacher certification. The College of Science and Engineering offers bachelor's degrees leading to teacher certification in the sciences, mathematics and technology at the 4-8 and the 7-12 levels:

- **Biology, BS — Grades 7-12 Life Science Education Concentration** (121-123 sem. hrs.) Details immediately follow below.
- Chemistry, BS — Grades 7-12 Physical Science Education Concentration (126-128 sem. hrs.)
- Computer Science, BS — Grades 8-12 Computer Science Education Concentration (120-122 sem. hrs.)
- Environmental Science, BS — Grades 4-8 Science Education Concentration (125-130 sem. hrs.)
- Interdisciplinary Studies, BSIS — Grades 4-8 with Mathematics Certification (College of Education)
- Mathematics, BS — Grades 7-12 Mathematics Education Concentration (120 sem. hrs.)

Mathematics 7-12 teacher certification is also possible with an undergraduate major other than mathematics. Details can be found in the Mathematics, Grades 7-12 Teacher Certification Without a Mathematics Major section.

The individual programs, Biology, Chemistry, Computer Science, Environmental Science, and Mathematics offer these degrees and courses.

Students seeking Teacher Certification are also strongly urged to contact the Certification Officer in the College of Education about current requirements and procedures that must be met to obtain the certificate. In particular, students following a degree plan leading to teacher certification must be admitted to the Teacher Education Program at Texas A&M University-Corpus Christi PRIOR to enrolling in any 4000 level EDCI or EDUC courses. Application forms for admission to the teacher education program may be obtained from the Undergraduate or Certification Office, room FC 201. The students are referred to the College of Education section of this catalog for more information on the Teacher Education Program.

III. Grade Point Average for Admission to Teacher Education

A minimum grade point average of 2.75 (4.0 = A) in all work attempted, a minimum grade point average of 2.75 in all science, math, or specialization areas, and no grade below "C" in any science or mathematics course on a student's degree plan and/or education courses within the professional block of courses are required. (See College of Education, "Admission to Teacher Education" and "Admission to Student Teaching" for other requirements.)

IV. Alteration of a Certification Plan

Any amendment to a degree plan originally filed must be approved by the student's academic advisor, the Department Chair, the Dean of the College of Science and Engineering, and the Certification Officer of the College of Education for the degree to be granted.

Degree Requirements

The Life Science Education plan is designed for those students who desire a Bachelor of Science Degree in Biology and a secondary teaching certificate in life science. The requirements for a Bachelor of Science in Biology degree with grades 8-12 Life Science Education Concentration are a minimum of 125* semester hours. Forty-five are designated University core curriculum courses; 42 are biology teaching core courses, and 27 are professional development courses. Other requirements include a psychology course and upper division elective courses. All students must take the Major Field Test in Biology their senior year, prior to graduation.

*Students may have to take additional hours to meet university requirements such as First-Year Seminar courses or major requirements that include 4 hour math and science courses.

General Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First-Year Seminars (when applicable)*	(2)
C. Biology Teaching Core	42
D. Upper Division Electives	10
E. Professional Development and Reading Sequence	27
	Total 121 (123)

Details of each of these areas are described below.

A. University Core

University Core Curriculum Programs **42 Sem. Hrs.**

*First-Year Seminars or Electives

Students are required to take PSYC 2301 - General Psychology as part of their core curriculum requirements.

Total: 42 (44)

B. Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

C. Biology Teaching Core

- BIOL 1406 - Biology I **4 sem. hrs.**
- BIOL 1407 - Biology II **4 sem. hrs.**
- BIOL 2416 - Genetics **4 sem. hrs.**
- BIOL 2421 - Microbiology **4 sem. hrs.**
- BIOL 3410 - Cell Biology **4 sem. hrs.**
- BIOL 3413 - Invertebrate Zoology **4 sem. hrs.**
- BIOL 3414 - Vertebrate Zoology **4 sem. hrs.**
- BIOL 3428 - Principles of Ecology **4 sem. hrs.**
- BIOL 2472 - Principles of Botany **4 sem. hrs.**
- SMTE 4320 - Secondary Science Laboratory Techniques **3 sem. hrs.**
- SMTE 4270 - Science Education Topics I **2 sem. hrs.**
- SMTE 4217 - Secondary Approaches to the Life Sciences **2 sem. hrs.**

Choose one of the three following classes

- BIOL 2401 - Anatomy and Physiology I **4 sem. hrs.** OR
- BIOL 3425 - Functional Anatomy **4 sem. hrs.** OR
- BIOL 3430 - Physiology **4 sem. hrs.**

Total: 39

D. Upper-Division Electives

- Choose from courses in the Sciences, Psychology, and Mathematics **10 sem. hrs.**

Total: 10

E. Professional Development and Reading Sequence

Students who seek a 7-12 level Life Science teaching certificate should contact a Certification Officer in the College of Education about requirements and procedures that must be met to obtain the certificate. The professional development sequence must be taken in a specific order and it is recommended that students contact the College of Education early in their academic careers for specific details on these courses.

Preliminary Courses

- READ 3353 - Content Area Reading for Secondary Students **3 sem. hrs.**
- EDUC 3311 - School and Society **3 sem. hrs.**

Field-Based Semester

- EDUC 4606 - Planning, Teaching, Assessment and Technology for Grades 7-12 Teachers **6 sem. hrs.**
- EDUC 4322 - Instructional Design for Special Populations: Grades 7-12 **3 sem. hrs.**

Student Teaching Semester

- EDUC 4312 - Classroom Management: Grades 7-12 **3 sem. hrs.**
- EDUC 4993 - Student Teaching: Grades 7-12 **9 sem. hrs.**

Total: 27

Chemistry, BS — Grades 7-12 Physical Science Education Concentration

I. Introduction

The College of Science and Engineering is committed to the support of students seeking to become science, mathematics and technology educators at all levels. The Science, Mathematics and Technology Education (SMTE) program offers content courses for students seeking K-12 science, mathematics and technology education. SMTE classes are also an integral part of the course work for degrees preparing students for Teacher Certifications. The SMTE program does not offer a degree; rather, degrees leading to Teacher Certification are offered by other Science and Engineering programs and by the College of Education. Students seeking to teach in the elementary and secondary schools of Texas must meet degree requirements as well as certification requirements. The requirements and procedure to become a science, mathematics or technology teacher in Texas are outlined below. Undergraduate students who are graduating from the College of Science & Engineering or the College of Liberal Arts who are seeking initial teacher certification at the 4-8, 7-12 and EC-12 levels prior to graduation, automatically qualify for the Minor in Education.

II. How to Become a Science, Mathematics or Technology Teacher in Texas

In order to be recommended for teacher certification at this university, a candidate must fulfill three basic requirements: (1) have a bachelor's degree from an accredited college or university that includes an academic major and teacher training courses, (2) complete teacher training through an approved program, and (3) successfully complete the appropriate teacher certification tests for the subject and grade level that the candidate wishes to teach. Additional information on the requirements to become a teacher in Texas can be obtained at the State Board of Educator Certification (SBEC) website:

http://www.sbec.state.tx.us/SBECOnline/certinfo/becometeacher.asp. This website also provides information on the resources available to help students pay for a teacher training program.

SBEC has approved three levels of teacher certification for regular educators: (1) Early childhood to grade 6 which includes foundation subjects and enrichment areas such as art, PE, and music, (2) Grade 4-8 which includes the foundation areas only, and (3) Grade 7-12 certification. Students can find information on the different certifications at the official Texas Examinations of Educator Standards (TExES) Web site: http://www.texes.ets.org. Texas A&M University-Corpus Christi offers several degrees leading to a number of these teacher certifications. The College of Education offers several degrees leading to teacher certification. The College of Science and Engineering offers bachelor's degrees leading to teacher certification in the sciences, mathematics and technology at the 4-8 and the 7-12 levels:

- Biology, BS — Grades 7-12 Life Science Education Concentration (121-123 sem. hrs.)
- **Chemistry, BS — Grades 7-12 Physical Science Education Concentration** (126-128 sem. hrs.) Details immediately follow below.
- Computer Science, BS — Grades 8-12 Computer Science Education Concentration (120-122 sem. hrs.)
- Environmental Science, BS — Grades 4-8 Science Education Concentration (125-130 sem. hrs.)
- Interdisciplinary Studies, BSIS — Grades 4-8 with Mathematics Certification (College of Education)
- Mathematics, BS — Grades 7-12 Mathematics Education Concentration (120 sem. hrs.)

Mathematics 7-12 teacher certification is also possible with an undergraduate major other than mathematics. Details can be found in the Mathematics, Grades 7-12 Teacher Certification Without a Mathematics Major section.

The individual programs, Biology, Chemistry, Computer Science, Environmental Science, and Mathematics offer these degrees and courses.

Students seeking Teacher Certification are also strongly urged to contact the Certification Officer in the College of Education about current requirements and procedures that must be met to obtain the certificate. In particular, students following a degree plan leading to teacher certification must be admitted to the Teacher Education Program at Texas A&M University-Corpus Christi PRIOR to enrolling in any 4000 level EDCI or EDUC courses. Application forms for admission to the teacher education program may be obtained from the Undergraduate or Certification Office, room FC 201. The students are referred to the College of Education section of this catalog for more information on the Teacher Education Program.

III. Grade Point Average for Admission to Teacher Education

A minimum grade point average of 2.75 (4.0 = A) in all work attempted, a minimum grade point average of 2.75 in all science, math, or specialization areas, and no grade below "C" in any science or mathematics course on a student's degree plan and/or education courses within the professional block of courses are required. (See College of Education, "Admission to Teacher Education" and "Admission to Student Teaching" for other requirements.)

IV. Alteration of a Certification Plan

Any amendment to a degree plan originally filed must be approved by the student's academic advisor, the Department Chair, the Dean of the College of Science and Engineering, and the Certification Officer of the College of Education for the degree to be granted.

Degree Requirements

The Bachelor of Science degree in Chemistry with a Physical Science Education concentration is designed for those planning to teach chemistry or physics at the 7-12 level, or who need chemical knowledge and skills relevant to future studies in the sciences. The BS in Chemistry requires at least 126 semester hours with a university required 45 upper-division hours. Students may have to take additional hours to meet university general education requirements such as First- Year Seminar courses. The degree requirements for the physical science education concentration are
as follows:

General Requirements

	Sem. Hrs.
A. First-Year Seminars (when applicable)*	(2)
B. Core Curriculum Program	42
C. Special Foundation Courses	10
D. Chemistry Major	47
E. Professional Development and Reading Sequence	27
	Total 130 (132)

A: *First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

B: University Core

Core Curriculum 42 Sem Hrs. See catalog section on University Core. Students choosing a physical science education concentration must take MATH 2413 - Calculus I, PHYS 2425 - University Physics I, PHYS 2426 - University Physics II, and PSYC 2301 - General Psychology.

Students are required to take PSYC 2301 - General Psychology as part of their core curriculum requirements.

Total: 42 (44)

C: Special Foundations for Physical Science Education Concentration

- PHYS 2425 - University Physics I **4 sem. hrs.** (3) 1**
- PHYS 2426 - University Physics II **4 sem. hrs.** (3) 1**

- MATH 2413 - Calculus I **4 sem. hrs.** (3) 1**
- MATH 2414 - Calculus II **4 sem. hrs.**
- MATH 3315 - Differential Equations **3 sem. hrs.**

Total: 10**

Note:

**Nine of these hours are used to fulfill the University Core Curriculum science and mathematics requirements. The total shown does not included the 9 hours applied to the core.

D: Chemistry Major for Physical Science Education Concentration

- CHEM 1411 - General Chemistry I **4 sem. hrs.**
- CHEM 1412 - General Chemistry II **4 sem. hrs.**
- CHEM 3411 - Organic Chemistry I **4 sem. hrs.**
- CHEM 3412 - Organic Chemistry II **4 sem. hrs.**
- CHEM 3417 - Quantitative Analysis **4 sem. hrs.**
- CHEM 4443 - Environmental Chemistry **4 sem. hrs.**
- CHEM 4401 - Biochemistry I **4 sem. hrs.**
- CHEM 4407 - Advanced Inorganic Chemistry **4 sem. hrs.**
- CHEM 4423 - Physical Chemistry I **4 sem. hrs.**
- CHEM 4424 - Physical Chemistry II **4 sem. hrs.**
- PHYS 3334 - Modern Physics I **3 sem. hrs.**
- SMTE 4320 - Secondary Science Laboratory Techniques **3 sem. hrs.**
- SMTE 4270 - Science Education Topics I **2 sem. hrs.**
- SMTE 4217 - Secondary Approaches to the Life Sciences **2 sem. hrs.**

Total: 50

E: Professional Development Sequence

Students who seek an 7-12 level Physical Science teaching certificate should contact a Certification Officer in the College of Education about requirements and procedures that must be met to obtain the certificate. The professional development sequence must be taken in a specific order and it is recommended that students contact the College of Education early in their academic careers for specific details on these courses.

Preliminary Courses

- READ 3353 - Content Area Reading for Secondary Students **3 sem. hrs.**
- EDUC 3311 - School and Society **3 sem. hrs.**

Field-Based Semester

- EDUC 4606 - Planning, Teaching, Assessment and Technology for Grades 7-12 Teachers **6 sem. hrs.**
- EDUC 4322 - Instructional Design for Special Populations: Grades 7-12 **3 sem. hrs.**

Student Teaching Semester

- EDUC 4312 - Classroom Management: Grades 7-12 **3 sem. hrs.**
- EDUC 4993 - Student Teaching: Grades 7-12 **9 sem. hrs.**

Total: 27

Computer Science, BS — Grades 8-12 Computer Science Education Concentration

I. Introduction

The College of Science and Engineering is committed to the support of students seeking to become science, mathematics and technology educators at all levels. The Science, Mathematics and Technology Education (SMTE) program offers content courses for students seeking K-12 science, mathematics and technology education. SMTE classes are also an integral part of the course work for degrees preparing students for Teacher Certifications. The SMTE program does not offer a degree; rather, degrees leading to Teacher Certification are offered by other Science and Engineering programs and by the College of Education. Students seeking to teach in the elementary and secondary schools of Texas must meet degree requirements as well as certification requirements. The requirements and procedure to become a science, mathematics or technology teacher in Texas are outlined below. Undergraduate students who are graduating from the College of Science & Engineering or the College of Liberal Arts who are seeking initial teacher certification at the 4-8, 7-12 and EC-12 levels prior to graduation, automatically qualify for the Minor in Education.

II. How to Become a Science, Mathematics or Technology Teacher in Texas

In order to be recommended for teacher certification at this university, a candidate must fulfill three basic requirements: (1) have a bachelor's degree from an accredited college or university that includes an academic major and teacher training courses, (2)

complete teacher training through an approved program, and (3) successfully complete the appropriate teacher certification tests for the subject and grade level that the candidate wishes to teach. Additional information on the requirements to become a teacher in Texas can be obtained at the State Board of Educator Certification (SBEC) website: http://www.sbec.state.tx.us/SBECOnline/certinfo/becometeacher.asp. This website also provides information on the resources available to help students pay for a teacher training program.

SBEC has approved three levels of teacher certification for regular educators: (1) Early childhood to grade 6 which includes foundation subjects and enrichment areas such as art, PE, and music, (2) Grade 4-8 which includes the foundation areas only, and (3) Grade 7-12 certification. Students can find information on the different certifications at the official Texas Examinations of Educator Standards (TExES) Web site: http://www.texes.ets.org. Texas A&M University-Corpus Christi offers several degrees leading to a number of these teacher certifications. The College of Education offers several degrees leading to teacher certification. The College of Science and Engineering offers bachelor's degrees leading to teacher certification in the sciences, mathematics and technology at the 4-8 and the 7-12 levels:

- Biology, BS — Grades 7-12 Life Science Education Concentration (121-123 sem. hrs.)
- Chemistry, BS — Grades 7-12 Physical Science Education Concentration (126-128 sem. hrs.)
- **Computer Science, BS — Grades 8-12 Computer Science Education Concentration** (120-122 sem. hrs.) Details immediately follow below.
- Environmental Science, BS — Grades 4-8 Science Education Concentration (125-130 sem. hrs.)
- Interdisciplinary Studies, BSIS — Grades 4-8 with Mathematics Certification (College of Education)
- Mathematics, BS — Grades 7-12 Mathematics Education Concentration (120 sem. hrs.)

Mathematics 7-12 teacher certification is also possible with an undergraduate major other than mathematics. Details can be found in the Mathematics, Grades 7-12 Teacher Certification Without a Mathematics Major section.

The individual programs, Biology, Chemistry, Computer Science, Environmental Science, and Mathematics offer these degrees and courses.

Students seeking Teacher Certification are also strongly urged to contact the Certification Officer in the College of Education about current requirements and procedures that must be met to obtain the certificate. In particular, students following a degree plan leading to teacher certification must be admitted to the Teacher Education Program at Texas A&M University-Corpus Christi PRIOR to enrolling in any 4000 level EDCI or EDUC courses. Application forms for admission to the teacher education program may be obtained from the Undergraduate or Certification Office, room FC 201. The students are referred to the College of Education section of this catalog for more information on the Teacher Education Program.

III. Grade Point Average for Admission to Teacher Education

A minimum grade point average of 2.50 (4.0 = A) in all work attempted, a minimum grade point average of 2.75 in all science, math, or specialization areas, and no grade below "C" in any science or mathematics course on a student's degree plan and/or education courses within the professional block of courses are required. (See College of Education, "Admission to Teacher Education" and "Admission to Student Teaching" for other requirements.)

IV. Alteration of a Certification Plan

Any amendment to a degree plan originally filed must be approved by the student's academic advisor, the Department Chair, the Dean of the College of Science and Engineering, and the Certification Officer of the College of Education for the degree to be granted.

Degree Requirements

The Computer Science Education option is designed for those students who desire a Bachelor of Science Degree and a secondary teaching certificate (grades 8-12) in Computer Science. The requirements for a Bachelor of Science Degree in Computer Science with secondary teaching certification are a minimum of 120 semester hours.

The degree requirements are as follows:

General Requirements

	Sem. Hr
A. Core Curriculum Program	42
First-Year Seminars (when applicable)*	(2)
B. Computer Science Major Curriculum	38
C. Computer Science Education Option	15
D. Professional Development and Reading Sequence	27
	Total: 120 (122)

A. University Core

See catalog section on University Core Curriculum Programs . Students choosing a Bachelor of Science Degree in Computer Science must take Calculus I (MATH 2413). Only three hours of MATH 2413 will count towards the Core Curriculum Program, the one hour laboratory component will count in the Computer Science Major Curriculum. Students must take PSYC 2301 - General Psychology as part of their University Core Curriculum Programs Requirements.

*Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I.
- UCCP 1102 - First-Year Seminar II.

Total: 42 (44) hours

B. Computer Science Major Curriculum

- COSC 1435 - Introduction to Problem Solving with Computers I **4 sem. hrs.**
- COSC 1436 - Introduction to Problem Solving with Computers II **4 sem. hrs.**
- COSC 2334 - Computer Architecture **3 sem. hrs.**
- COSC 2437 - Data Structures **4 sem. hrs.**
- COSC 3336 - Introduction to Database Systems **3 sem. hrs.**
- COSC 3346 - Operating Systems **3 sem. hrs.**
- COSC 3370 - Software Engineering **3 sem. hrs.**

- COSC 3400 - Skills for Computing Professionals **4 sem. hrs.**
- COSC 4354 - Senior Capstone Project **3 sem. hrs.**
- * MATH 2413 - Calculus I **4 sem. hrs.** (3 hours of this course will count towards the core curriculum requirements, the 1 hour laboratory compoenent will count in this section)
- * MATH 2305 - Discrete Mathematics I **3 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**

Total: 38

Note:

*These are supporting courses that can be used toward a minor in mathematics.

C. Computer Science Education Option

- COSC 3324 - Object-oriented Programming **3 sem. hrs.**
- COSC 4342 - Computer Networks **3 sem. hrs.**
- Approved upper-division Computer Science electives **3 sem. hrs.**

Choose two of the following three courses:

- COSC 3351 - Internet Programming **3 sem. hrs.**
- COSC 3353 - Survey of Programming Languages **3 sem. hrs.**
- COSC 4360 - Theory of Programming Languages **3 sem. hrs.**

Total: 15

D. Professional Development and Reading Sequence

Students who seek an 8-12 level Computer Science teaching certificate should contact a Certification Officer in the College of Education about requirements and procedures that must be met to obtain the certificate. The professional development sequence must be taken in a specific order and it is recommended that students contact the College of Education early in their academic careers for specific details on these courses.

Preliminary Courses

- READ 3353 - Content Area Reading for Secondary Students **3 sem. hrs.**
- EDUC 3311 - School and Society **3 sem. hrs.**

Field-Based Semester

- EDUC 4322 - Instructional Design for Special Populations: Grades 7-12 **3 sem. hrs.**
- EDUC 4606 - Planning, Teaching, Assessment and Technology for Grades 7-12 Teachers **6 sem. hrs.**

Student Teaching Semester

- EDUC 4312 - Classroom Management: Grades 7-12 **3 sem. hrs.**
- EDUC 4993 - Student Teaching: Grades 7-12 **9 sem. hrs.**

Total: 27

Environmental Science, BS — Grades 4-8 Science Education Concentration

I. Introduction

The College of Science and Engineering is committed to the support of students seeking to become science, mathematics and technology educators at all levels. The Science, Mathematics and Technology Education (SMTE) program offers content courses for students seeking K-12 science, mathematics and technology education. SMTE classes are also an integral part of the course work for degrees preparing students for Teacher Certifications. The SMTE program does not offer a degree; rather, degrees leading to Teacher Certification are offered by other Science and Technology programs and by the College of Education. Students seeking to teach in the elementary and secondary schools of Texas must meet degree requirements as well as certification requirements. The requirements and procedure to become a science, mathematics or technology teacher in Texas are outlined below. Undergraduate students who are graduating from the College of Science & Engineering or the College of Liberal Arts who are seeking initial teacher certification at the 4-8, 7-12 and EC-12 levels prior to graduation, automatically qualify for the Minor in Education.

II. How to Become a Science, Mathematics or Technology Teacher in Texas

In order to be recommended for teacher certification at this university, a candidate must fulfill three basic requirements: (1) have a bachelor's degree from an accredited college or university that includes an academic major and teacher training courses, (2)

complete teacher training through an approved program, and (3) successfully complete the appropriate teacher certification tests for the subject and grade level that the candidate wishes to teach. Additional information on the requirements to become a teacher in Texas can be obtained at the State Board of Educator Certification (SBEC) website: http://www.sbec.state.tx.us/SBECOnline/certinfo/becometeacher.asp. This website also provides information on the resources available to help students pay for a teacher training program.

SBEC has approved three levels of teacher certification for regular educators: (1) Early childhood to grade 6 which includes foundation subjects and enrichment areas such as art, PE, and music, (2) Grade 4-8 which includes the foundation areas only, and (3) Grade 7-12 certification. Students can find information on the different certifications at the official Texas Examinations of Educator Standards (TExES) Web site: http://www.texes.ets.org. Texas A&M University-Corpus Christi offers several degrees leading to a number of these teacher certifications. The College of Education offers several degrees leading to teacher certification. The College of Science and Engineering offers bachelor's degrees leading to teacher certification in the sciences, mathematics and technology at the 4-8 and the 7-12 levels. These bachelor's degrees are the following:

- Biology, BS — Grades 7-12 Life Science Education Concentration (121-123 sem. hrs.)
- Chemistry, BS — Grades 7-12 Physical Science Education Concentration (126-128 sem. hrs.)
- Computer Science, BS — Grades 8-12 Computer Science Education Concentration (120-122 sem. hrs.)
- **Environmental Science, BS — Grades 4-8 Science Education Concentration** (122-127 sem. hrs.) Details immediately follow below.
- Interdisciplinary Studies, BSIS — Grades 4-8 with Mathematics Certification (College of Education)
- Mathematics, BS — Grades 7-12 Mathematics Education Concentration (120 sem. hrs.)

Mathematics 7-12 teacher certification is also possible with an undergraduate major other than mathematics. Details can be found in the Mathematics, Grades 7-12 Teacher Certification Without a Mathematics Major section.

The individual programs, Biology, Chemistry, Computer Science, Environmental Science, and Mathematics offer these degrees and courses.

Students seeking Teacher Certification are also strongly urged to contact the Certification Officer in the College of Education about current requirements and procedures that must be met to obtain the certificate. In particular, students following a degree plan leading to teacher certification must be admitted to the Teacher Education Program at Texas A&M University-Corpus Christi PRIOR to enrolling in any 4000 level EDCI or EDUC courses. Application forms for admission to the teacher education program may be obtained from the Undergraduate or Certification Office, room FC 201. The students are referred to the College of Education section of this catalog for more information on the Teacher Education Program.

III. Grade Point Average for Admission to Teacher Education

A minimum grade point average of 2.50 (4.0 = A) in all work attempted, a minimum grade point average of 2.75 in all science, math, or specialization areas, and no grade below "C" in any science or mathematics course on a student's degree plan and/or education courses within the professional block of courses are required. (See College of Education, "Admission to Teacher Education" and "Admission to Student Teaching" for other requirements.)

IV. Alteration of a Certification Plan

Any amendment to a degree plan originally filed must be approved by the student's academic advisor, the Department Chair, the Dean of the College of Science and Engineering, and the Certification Officer of the College of Education for the degree to be granted.

Degree Requirements

The minimum requirement for a Bachelor of Science Degree in Environmental Science with a science education concentration is a total of 122-127 hours. The concentration is designed for those students who plan on obtaining a 4-8 Science certificate. The degree requirements are divided among the following areas:

General Requirements

	Sem. Hrs.
A. Core Curriculum Program	42
B. First Year Seminar (when applicable)	2
C. Science Content Courses	(6) + 40-47
D. Mathematics Courses	(4) + 3-4
E. Professional Development and Reading Sequence	30
	Total 122-127

Details of each of these areas are described below.

A. Core Curriculum Program 42 Sem. Hrs.

University Core and First-Year Seminars

See catalog section on University Core. Students choosing a science education concentration must take Statistics for Life (MATH 1442), Biology I (BIOL 1406), General Chemistry I with lab (CHEM 1411), and General Psychology (PSYC 2301). Some of these courses are included in the Foundations requirements; in such cases the semester hours are indicated in parenthesis for the course. Students must also take PSYC 2301 - General Psychology as part of the University Core Curriculum Programs.

B. First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

C. Science Content Courses

- PHYS 1304 - Introduction to Astronomy: Solar System **3 sem. hrs.**
- BIOL 1406 - Biology I **4 sem. hrs.** *
- BIOL 1407 - Biology II **4 sem. hrs.**
- CHEM 1411 - General Chemistry I **4 sem. hrs.** *
- ESCI 1401 - Environmental Science I: Intro to Environmental Science **4 sem. hrs.**
- ESCI 4202 - Issues in Environmental Science **2 sem. hrs.**

- GEOL 1403 - Physical Geology **4 sem. hrs.**
- GEOL 1404 - Historical Geology **4 sem. hrs.**
- PHYS 1401 - General Physics I **4 sem. hrs.**
- SMTE 4217 - Secondary Approaches to the Life Sciences **2 sem. hrs.**
- SMTE 4270 - Science Education Topics I **2 sem. hrs.**
- SMTE 4320 - Secondary Science Laboratory Techniques **3 sem. hrs.**
- Either ESCI 3351 - Oceanography **3 sem. hrs.**
- Or ESCI 3403 - Introduction to Meteorology **4 sem. hrs.**

Choose one of the following:

- SMTE 3315 - Foundational Approaches to the Physical Sciences **3 sem. hrs.**
- PHYS 1402 - General Physics II **4 sem. hrs.**

Choose one of the following:

- ESCI 3443 - Environmental Biology **4 sem. hrs.**
- CHEM 4443 - Environmental Chemistry **4 sem. hrs.**
- ESCI 3351 - Oceanography **3 sem. hrs.**
- ESCI 3403 - Introduction to Meteorology **4 sem. hrs.**
- ESCI 4330 - Oil Spill Prevention and Response **3 sem. hrs.**
- ESCI 4335 - Climate and Climate Variability **3 sem. hrs.**
- ESCI 4360 - Physical Oceanography **3 sem. hrs.**
- GEOL 3443 - Environmental Geology **4 sem. hrs.**

Total: 53-55

Note:

*Only 3 hours of BIOL 1406 and CHEM 1411 will apply to the University Core Curriculum. The one hour laboratory component will be counted in the major requirements.

D. Mathematics Courses

- MATH 1442 - Statistics for Life **4 sem. hrs.** *

Choose one of the following:

- MATH 1316 - Trigonometry **3 sem. hrs.**
- MATH 2312 - Precalculus **3 sem. hrs.**
- MATH 2413 - Calculus I **4 sem. hrs.**

Total: 3-4

Note:

*Only 3 hours of MATH 1442 will apply to the University Core Curriculum. The one hour laboratory component will be counted in the major requirements

E. Professional Development Sequence

Students who seek a 4-8 level Science teaching certificate should contact a Certification Officer in the College of Education about requirements and procedures that must be met to obtain the certificate. The professional development sequence must be taken in a specific order and it is recommended that students contact the College of Education early in their academic careers for specific details on these courses.

Preliminary Courses

- EDUC 3311 - School and Society **3 sem. hrs.**
- READ 3320 - Principles and Practices of Reading Instruction **3 sem. hrs.**
- READ 3351 - Diagnosis and Correction of Reading Problems **3 sem. hrs.**

Field-Based Semester

- EDUC 4607 - Planning, Teaching, Assessment and Technology for Grades 4-8 Teachers **6 sem. hrs.**
- EDUC 4323 - Instructional Design for Special Populations: Grades 4-8 **3 sem. hrs.**

Student Teaching Semester

- EDUC 4992 - Student Teaching: Grades 4-8 **9 sem. hrs.**
- EDUC 4313 - Classroom Management: Grades 4-8 **3 sem. hrs.**

Total: 30

Interdisciplinary Studies, BSIS — Grades 4-8 with Mathematics Certification

I. Introduction

The College of Science and Engineering is committed to the support of students seeking to become science, mathematics and technology educators at all levels. The Science, Mathematics and Technology Education (SMTE) program offers content courses for students seeking K-12 science, mathematics and technology education. SMTE classes are also an integral part of the course work for degrees preparing students for Teacher Certifications. The SMTE program does not offer a degree; rather, degrees leading to Teacher Certification are offered by other Science and Technology programs and by the College of Education. Students seeking to teach in the elementary and secondary schools of Texas must meet degree requirements as well as certification requirements. The requirements and procedure to become a science, mathematics or technology teacher in Texas are outlined below. Undergraduate students who are graduating from the College of Science & Engineering or the College of Liberal Arts who are seeking initial teacher certification at the 4-8, 7-12 and EC-12 levels prior to graduation, automatically qualify for the Minor in Education.

II. How to Become a Science, Mathematics or Technology Teacher in Texas

In order to be recommended for teacher certification at this university, a candidate must fulfill three basic requirements: (1) have a bachelor's degree from an accredited college or university that includes an academic major and teacher training courses, (2) complete teacher training through an approved program, and (3) successfully complete the appropriate teacher certification tests for the subject and grade level that the candidate wishes to teach. Additional information on the requirements to become a teacher in Texas can be obtained at the State Board of Educator Certification (SBEC) website: http://www.sbec.state.tx.us/SBECOnline/certinfo/becometeacher.asp. This website also provides information on the resources available to help students pay for a teacher training program.

SBEC has approved three levels of teacher certification for regular educators: (1) Early childhood to grade 6 which includes foundation subjects and enrichment areas such as art, PE, and music, (2) Grade 4-8 which includes the foundation areas only, and (3) Grade 7-12 certification. Students can find information on the different certifications at the official Texas Examinations of Educator Standards (TExES) Web site: http://www.texes.ets.org. Texas A&M University-Corpus Christi offers several degrees leading to a number of these teacher certifications. The College of Education offers several degrees leading to teacher certification. The College of Science and Engineering offers bachelor's degrees leading to teacher certification in the sciences, mathematics and technology at the 4-8 and the 7-12 levels:

- Biology, BS — Grades 7-12 Life Science Education Concentration (121-123 sem. hrs.)
- Chemistry, BS — Grades 7-12 Physical Science Education Concentration (126-8 sem. hrs.)
- Computer Science, BS — Grades 8-12 Computer Science Education Concentration (120-122 sem. hrs.)
- Environmental Science, BS — Grades 4-8 Science Education Concentration (125-130 sem. hrs.)
- **Interdisciplinary Studies, BSIS — Grades 4-8 with Mathematics Certification** (College of Education) Details immediately follow below.

- Mathematics, BS — Grades 7-12 Mathematics Education Concentration (120 sem. hrs.)

Mathematics 7-12 teacher certification is also possible with an undergraduate major other than mathematics. Details can be found in the Mathematics, Grades 7-12 Teacher Certification Without a Mathematics Major section.

The individual programs, Biology, Chemistry, Computer Science, Environmental Science, and Mathematics offer these degrees and courses.

Students seeking Teacher Certification are also strongly urged to contact the Certification Officer in the College of Education about current requirements and procedures that must be met to obtain the certificate. In particular, students following a degree plan leading to teacher certification must be admitted to the Teacher Education Program at Texas A&M University-Corpus Christi PRIOR to enrolling in any 4000 level EDCI or EDUC courses. Application forms for admission to the teacher education program may be obtained from the Undergraduate or Certification Office, room FC 201. The students are referred to the College of Education section of this catalog for more information on the Teacher Education Program.

III. Grade Point Average for Admission to Teacher Education

A minimum grade point average of 2.50 (4.0 = A) in all work attempted, a minimum grade point average of 2.75 in all science, math, or specialization areas, and no grade below "C" in any science or mathematics course on a student's degree plan and/or education courses within the professional block of courses are required. (See College of Education, "Admission to Teacher Education" and "Admission to Student Teaching" for other requirements.)

IV. Alteration of a Certification Plan

Any amendment to a degree plan originally filed must be approved by the student's academic advisor, the Department Chair, the Dean of the College of Science and Engineering, and the Certification Officer of the College of Education for the degree to be granted.

Degree Requirements

Grades 4-8 certification in mathematics is completed with an Interdisciplinary Studies major in the College of Education. See the College of Education section of the catalog for more details.

Mathematics, BS — Grades 7-12 Mathematics Education Concentration

I. Introduction

The College of Science and Engineering is committed to the support of students seeking to become science, mathematics and technology educators at all levels. The Science, Mathematics and Technology Education (SMTE) program offers content courses for students seeking K-12 science, mathematics and technology education. SMTE classes are also an integral part of the course work for degrees preparing students for Teacher Certifications. The SMTE program does not offer a degree; rather, degrees leading to Teacher Certification are offered by other Science and Technology programs and by the College of Education. Students seeking to teach in the elementary and secondary schools of Texas must meet degree requirements as well as

certification requirements. The requirements and procedure to become a science, mathematics or technology teacher in Texas are outlined below. Undergraduate students who are graduating from the College of Science & Engineering or the College of Liberal Arts who are seeking initial teacher certification at the 4-8, 7-12 and EC-12 levels prior to graduation, automatically qualify for the Minor in Education.

II. How to Become a Science, Mathematics or Technology Teacher in Texas

In order to be recommended for teacher certification at this university, a candidate must fulfill three basic requirements: (1) have a bachelor's degree from an accredited college or university that includes an academic major and teacher training courses, (2) complete teacher training through an approved program, and (3) successfully complete the appropriate teacher certification tests for the subject and grade level that the candidate wishes to teach. Additional information on the requirements to become a teacher in Texas can be obtained at the State Board of Educator Certification (SBEC) website: http://www.sbec.state.tx.us/SBECOnline/certinfo/becometeacher.asp. This website also provides information on the resources available to help students pay for a teacher training program.

SBEC has approved three levels of teacher certification for regular educators: (1) Early childhood to grade 6 which includes foundation subjects and enrichment areas such as art, PE, and music, (2) Grade 4-8 which includes the foundation areas only, and (3) Grade 8-12 certification. Students can find information on the different certifications at the official Texas Examinations of Educator Standards (TExES) Web site: http://www.texes.ets.org. Texas A&M University-Corpus Christi offers several degrees leading to a number of these teacher certifications. The College of Education offers several degrees leading to teacher certification. The College of Science and Engineering offers bachelor's degrees leading to teacher certification in the sciences, mathematics and technology at the 4-8 and the 8-12 levels:

- Biology, BS — Grades 7-12 Life Science Education Concentration (121-123 sem. hrs.)
- Chemistry, BS — Grades 7-12 Physical Science Education Concentration (126-8 sem. hrs.)
- Computer Science, BS — Grades 8-12 Computer Science Education Concentration (120-122 sem. hrs.)
- Environmental Science, BS — Grades 4-8 Science Education Concentration (125-130 sem. hrs.)
- Interdisciplinary Studies, BSIS — Grades 4-8 with Mathematics Certification (College of Education)
- **Mathematics, BS — Grades 7-12 Mathematics Education Concentration** (120 sem. hrs.) Details immediately follow below.

Mathematics 7-12 teacher certification is also possible with an undergraduate major other than mathematics. Details can be found in the Mathematics, Grades 7-12 Teacher Certification Without a Mathematics Major section.

The individual programs, Biology, Chemistry, Computer Science, Environmental Science, and Mathematics offer these degrees and courses.

Students seeking Teacher Certification are also strongly urged to contact the Certification Officer in the College of Education about current requirements and procedures that must be met to obtain the certificate. In particular, students following a degree plan leading to teacher certification must be admitted to the Teacher Education Program at Texas A&M University-Corpus Christi PRIOR to enrolling in any 4000 level EDCI or EDUC courses. Application forms for admission to the teacher education program may be obtained from the Undergraduate or Certification Office, room FC 201. The students are referred to the College of Education section of this catalog for more information on the Teacher Education Program.

III. Grade Point Average for Admission to Teacher Education

A minimum grade point average of 2.75 (4.0 = A) in all work attempted, a minimum grade point average of 2.75 in all science, math, or specialization areas, and no grade below "C" in any science or mathematics course on a student's degree plan and/or education courses within the professional block of courses are required. (See College of Education, "Admission to Teacher Education" and "Admission to Student Teaching" for other requirements.)

IV. Alteration of a Certification Plan

Any amendment to a degree plan originally filed must be approved by the student's academic advisor, the Department Chair, the Dean of the College of Science and Engineering, and the Certification Officer of the College of Education for the degree to be granted.

Degree Requirements

This plan is designed for those students who desire a Bachelor of Science Degree in Mathematics and a secondary teaching certificate in mathematics. The requirements for a Bachelor of Science in Mathematics degree are a minimum of 120 semester hours. Forty-two are designated University core curriculum courses; 38 are mathematics courses. All students must take the Major Field Test in Mathematics their senior year, prior to graduation.

General Requirements

		Sem. Hrs.
A.	Core Curriculum Program	42
	First-Year Seminars (when applicable)*	(2)
B.	Mathematics Core	33
C.	Mathematics Electives	6
D.	Supporting Courses	10
E.	Psychology Course (hours counted in Core Curriculum Program)	(3)
F.	Professional Development and Reading Sequence	27
G.	Electives (as needed to fulfill University graduation requirements)	0-2
		Total 120

The following describes each of the components of the mathematics major in more detail.

A. University Core Curriculum and First-Year Seminars.

University Core Curriculum Programs

As part of the core curriculum requirements students must take:

MATH 2413 - Calculus I

PHYS 2426 - University Physics II PHYS 2425 - University Physics I

Only 3 hours of these courses will apply to the University Core Curriculum. The three 1 hour laboratory components apply to the Mathematics Core or Supporting Courses requirement.

Full-time, first-year students are required to take the following courses:

- UCCP 1101 - First-Year Seminar I. **1 sem. hrs.**
- UCCP 1102 - First-Year Seminar II. **1 sem. hrs.**

Total: 42 (44)

B. Mathematics Core

The following courses are required of all mathematics majors.

- MATH 2305 - Discrete Mathematics I **3 sem. hrs.**
- MATH 2413 - Calculus I **4 sem. hrs.** *†
- MATH 2414 - Calculus II **4 sem. hrs.** *
- MATH 3311 - Linear Algebra **3 sem. hrs.**
- MATH 3313 - Foundations of Number Theory **3 sem. hrs.**
- MATH 3315 - Differential Equations **3 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**
- MATH 3470 - Calculus III **4 sem. hrs.**
- MATH 4301 - Introduction to Analysis **3 sem. hrs.**
- MATH 4306 - Modern Algebra **3 sem. hrs.**
- MATH 4385 - Applied Modeling **3 sem. hrs.**

Total: 33 (3 hours count in the Core Curriculum Program)

Note:

*May be waived with suitable placement; see placement section below for more details. Upper-division classes may be required to increase total hours to the university minimum. See the degree requirements section of the catalog for details.

†3 hours of MATH 2413 apply to the University Core Curriculum. The 1 hour laboratory component applies to the Mathematics major requirement.

C. Mathematics Electives

- MATH 3312 - College Geometry **3 sem. hrs.**

One of the following

- MATH 4315 - Partial Differential Equations **3 sem. hrs.**
- MATH 4328 - Discrete Mathematics II **3 sem. hrs.**
- MATH 4342 - Introduction to Mathematical Statistics **3 sem. hrs.**
- SMTE 4370 - Mathematics Education Topics I **3 sem. hrs.**

Total: 6

D. Supporting Courses

Supporting courses are chosen to provide a context in which to apply mathematics, to provide important career skills for the mathematician, and to motivate many of the important problems studied in mathematics.

- COSC 1435 - Introduction to Problem Solving with Computers I **4 sem. hrs.**
- COSC 1436 - Introduction to Problem Solving with Computers II **4 sem. hrs.**

Total: 10

E. Psychology

- PSYC 2301 - General Psychology **3 sem. hrs.**

Total: (3; hours are counted in the Core Curriculum Program)

F. Professional Development and Reading Sequence

Students who seek a 8-12 level Mathematics teaching certificate should contact a Certification Officer in the College of Education about requirements and procedures that must be met to obtain the certificate. The professional development sequence must be taken in a specific order and it is recommended that students contact the College of Education early in their academic careers for specific details on these courses.

Preliminary Courses

- READ 3353 - Content Area Reading for Secondary Students **3 sem. hrs.**
- EDUC 3311 - School and Society **3 sem. hrs.**

Field-Based Semester

- EDUC 4606 - Planning, Teaching, Assessment and Technology for Grades 7-12 Teachers **6 sem. hrs.**
- EDUC 4322 - Instructional Design for Special Populations: Grades 7-12 **3 sem. hrs.**

Student Teaching Semester

- EDUC 4312 - Classroom Management: Grades 7-12 **3 sem. hrs.**
- EDUC 4993 Student Teaching 8-12 **9 sem. hrs.**

Total: 27

Teacher Certificate

Mathematics, Grades 7-12 Teacher Certification Without a Mathematics Major

I. Introduction

The College of Science and Engineering is committed to the support of students seeking to become science, mathematics and technology educators at all levels. The Science, Mathematics and Technology Education (SMTE) program offers content courses for students seeking K-12 science, mathematics and technology education. SMTE classes are also an integral part of the course work for degrees preparing students for Teacher Certifications. The SMTE program does not offer a degree; rather, degrees leading to Teacher Certification are offered by other Science and Technology programs and by the College of Education. Students seeking to teach in the elementary and secondary schools of Texas must meet degree requirements as well as certification requirements. The requirements and procedure to become a science, mathematics or technology teacher in Texas are outlined below. Undergraduate students who are graduating from the College of Science & Engineering or the College of Liberal Arts who are seeking initial teacher certification at the 4-8, 8-12 and EC-12 levels prior to graduation, automatically qualify for the Minor in Education.

II. How to Become a Science, Mathematics or Technology Teacher in Texas

In order to be recommended for teacher certification at this university, a candidate must fulfill three basic requirements: (1) have a bachelor's degree from an accredited college or university that includes an academic major and teacher training courses, (2) complete teacher training through an approved program, and (3) successfully complete the appropriate teacher certification tests for the subject and grade level that the candidate wishes to teach. Additional information on the requirements to become a teacher in Texas can be obtained at the State Board of Educator Certification (SBEC) website: http://www.sbec.state.tx.us/SBECOnline/certinfo/becometeacher.asp. This website also provides information on the resources available to help students pay for a teacher training program.

SBEC has approved three levels of teacher certification for regular educators: (1) Early childhood to grade 6 which includes foundation subjects and enrichment areas such as art, PE, and music, (2) Grade 4-8 which includes the foundation areas only, and (3) Grade 7-12 certification. Students can find information on the different certifications at the official Texas Examinations of Educator Standards (TExES) Web site: http://www.texes.ets.org. Texas A&M University-Corpus Christi offers several degrees leading to a number of these teacher certifications. The College of Education offers several degrees leading to teacher certification. The College of Science and Engineering offers bachelor's degrees leading to teacher certification in the sciences, mathematics and technology at the 4-8 and the 8-12 levels. These bachelor's degrees are the following;

- Biology, BS — Grades 7-12 Life Science Education Concentration (121-123 sem. hrs.)
- Chemistry, BS — Grades 7-12 Physical Science Education Concentration (126-128 sem. hrs.)
- Computer Science, BS — Grades 8-12 Computer Science Education Concentration (120-122 sem. hrs.)
- Environmental Science, BS — Grades 4-8 Science Education Concentration (125-130 sem. hrs.)
- Interdisciplinary Studies, BSIS — Grades 4-8 with Mathematics Certification (College of Education)
- Mathematics, BS -- Grades 7-12 Mathematics Education Concentration (120 sem. hrs.)

Mathematics 7-12 teacher certification is also possible with an undergraduate major other than mathematics. Details immediately follow below.

The individual programs, Biology, Chemistry, Computer Science, Environmental Science, and Mathematics offer these degrees and courses.

Students seeking Teacher Certification are also strongly urged to contact the Certification Officer in the College of Education about current requirements and procedures that must be met to obtain the certificate. In particular, students following a degree plan leading to teacher certification must be admitted to the Teacher Education Program at Texas A&M University-Corpus Christi PRIOR to enrolling in any 4000 level EDCI or EDUC courses. Application forms for admission to the teacher education program may be obtained from the Undergraduate or Certification Office, room FC 201. The students are referred to the College of Education section of this catalog for more information on the Teacher Education Program.

III. Grade Point Average for Admission to Teacher Education

A minimum grade point average of 2.50 (4.0 = A) in all work attempted, a minimum grade point average of 2.75 in all science, math, or specialization areas, and no grade below "C" in any science or mathematics course on a student's degree plan and/or education courses within the professional block of courses are required. (See College of Education, "Admission to Teacher Education" and "Admission to Student Teaching" for other requirements.)

IV. Alteration of a Certification Plan

Any amendment to a degree plan originally filed must be approved by the student's academic advisor, the Department Chair, the Dean of the College of Science and Engineering, and the Certification Officer of the College of Education for the degree to be granted.

Requirements

Mathematics 7-12 teacher certification without a mathematics major requires at least 26 hours of mathematics and 27 hours of professional development and reading courses. The required mathematics courses are listed in the Mathematics, BS — Grades 7-12 Mathematics Education Concentration . Students seeking certification through this route should contact a Certification Officer in the College of Education. The mathematics major as described includes all required courses.

Courses

- MATH 2305 - Discrete Mathematics I **3 sem. hrs.**
- MATH 2413 - Calculus I **4 sem. hrs.**
- MATH 2414 - Calculus II **4 sem. hrs.**
- MATH 3311 - Linear Algebra **3 sem. hrs.**
- MATH 3313 - Foundations of Number Theory **3 sem. hrs.**
- MATH 3315 - Differential Equations **3 sem. hrs.**
- MATH 3342 - Applied Probability and Statistics **3 sem. hrs.**
- MATH 3470 - Calculus III **4 sem. hrs.**
- MATH 4301 - Introduction to Analysis **3 sem. hrs.**
- MATH 4306 - Modern Algebra **3 sem. hrs.**
- MATH 4385 - Applied Modeling **3 sem. hrs.**

Total: 33 hrs.

Science, Mathematics and Technology Education

I. Introduction

The College of Science and Engineering is committed to the support of students seeking to become science, mathematics and technology educators at all levels. The Science, Mathematics and Technology Education (SMTE) program offers content courses for students seeking K-12 science, mathematics and technology education. SMTE classes are also an integral part of the course work for degrees preparing students for Teacher Certifications. The SMTE program does not offer a degree; rather, degrees leading to Teacher Certification are offered by other Science and Technology programs and by the College of Education. Students seeking to teach in the elementary and secondary schools of Texas must meet degree requirements as well as certification requirements. The requirements and procedure to become a science, mathematics or technology teacher in Texas are outlined below; presentation of such details about multiple programs in a single catalog section is intended for clarity and ease of readers in locating information.

II. How to Become a Science, Mathematics or Technology Teacher in Texas

In order to be recommended for teacher certification at this university, a candidate must fulfill three basic requirements: (1) have a bachelor's degree from an accredited college or university that includes an academic major and teacher training courses, (2) complete teacher training through an approved program, and (3) successfully complete the appropriate teacher certification tests

for the subject and grade level that the candidate wishes to teach. Additional information on the requirements to become a teacher in Texas can be obtained at the State Board of Educator Certification (SBEC) website: http://www.sbec.state.tx.us/SBECOnline/certinfo/becometeacher.asp. This website also provides information on the resources available to help students pay for a teacher training program.

SBEC has approved three levels of teacher certification for regular educators: (1) Early childhood to grade 6 which includes foundation subjects and enrichment areas such as art, PE, and music, (2) Grade 4-8 which includes the foundation areas only, and (3) Grade 7-12 certification. Students can find information on the different certifications at the official Texas Examinations of Educator Standards (TExES) Web site: http://www.texes.ets.org. Texas A&M University-Corpus Christi offers several degrees leading to a number of these teacher certifications. The College of Education offers several degrees leading to teacher certification. The College of Science and Engineering offers bachelor's degrees leading to teacher certification in the sciences, mathematics and technology at the 4-8 and the 7-12 levels. These bachelor's degrees are the following; they are described in Section V below, in the order listed:

- Bachelor of Science in Environmental Science – Science Education Concentration leading to the Science 4-8 teacher certification (123-127 sem. hrs.)

- Bachelor of Science in Interdisciplinary Studies (BSIS, College of Education) leading to the Mathematics 4-8 teacher certification

- Bachelor of Science in Biology – Life Science Education Concentration leading to the Life Science 7-12 teacher certification (122 sem. hrs.)

- Bachelor of Science in Chemistry – Physical Science Education Concentration leading to the Physical Science 7-12 teacher certification (126 sem. hrs.)

- Bachelor of Science in Computer Science – Computer Science Education Option leading to the Computer Science 8-12 teacher certification (120-122 sem. hrs.)

- Bachelor of Science in Mathematics leading to the Mathematics 7-12 teacher certification (120 sem. hrs)

Mathematics 7-12 teacher certification is also possible with an undergraduate major other than mathematics. Details immediately follow the BS in Mathematics listing.

The individual programs, Biology, Chemistry, Computer Science, Environmental Science, and Mathematics offer these degrees and courses.

Students seeking Teacher Certification are also strongly urged to contact the Certification Officer in the College of Education about current requirements and procedures that must be met to obtain the certificate. In particular, students following a degree plan leading to teacher certification must be admitted to the Teacher Education Program at Texas A&M University-Corpus Christi PRIOR to enrolling in any 4000 level EDCI or EDUC courses. Application forms for admission to the teacher education program may be obtained from the Undergraduate or Certification Office, room FC 201. The students are referred to the College of Education section of this catalog for more information on the Teacher Education Program.

III. Grade Point Average for Admission to Teacher Education

A minimum grade point average of 2.75 (4.0 = A) in all work attempted, a minimum grade point average of 2.75 in all science, math, or specialization areas, and no grade below "C" in any science or mathematics course on a student's degree plan and/or education courses within the professional block of courses are required. (See College of Education, "Admission to Teacher Education" and "Admission to Student Teaching" for other requirements.)

IV. Alteration of a Certification Plan

Any amendment to a degree plan originally filed must be approved by the student's academic advisor, the Department Chair, the Dean of the College of Science and Engineering, and the Certification Officer of the College of Education for the degree to be granted.

Course Description Information

Course Abbreviations or Prefixes

The University offers undergraduate courses in a variety of subjects. The following table lists (1) the undergraduate subjects offered, (2) their abbreviations or course prefixes, (3) the colleges or units in which they are taught, and (4) the page numbers. The prefixes are used in course listings in this catalog and the semester class schedule.

Subject	Prefix	College or Unit
Accounting	ACCT	Business
Anthropology	ANTH	Liberal Arts
Art	ARTS	Liberal Arts
Astronomy	ASTR	Science and Technology
Bilingual/ESL/Multicultural	BIEM	Education
Biology	BIOL	Science and Technology
Biomedical Sciences	BIMS	Science and Technology
Business Administration	BUSI	Business
Business Law	BLAW	Business
Chemistry	CHEM	Science and Technology

Communication	COMM	Liberal Arts
Computer Science	COSC	Science and Technology
Criminal Justice	CRIJ	Liberal Arts
Dance	DANC	Liberal Arts
Early Childhood Education	ECED	Education
Economics	ECON	Business
Education/Student Teaching	EDUC	Education
Educational Curriculum & Instruction	EDCI	Education
Educational Technology	ETEC	Education
Engineering	ENGR	Science and Technology
Engineering Technology	ENTC	Science and Technology
English	ENGL	Liberal Arts
Environmental Science	ESCI	Science and Technology
Finance	FINA	Business
French	FREN	Liberal Arts
Geographic Information Science	GISC	Science and Technology
Geography	GEOG	Liberal Arts
Geology	GEOL	Science and Technology
German	GERM	Liberal Arts
Health	HLTH	Education
Health Sciences	HLSC	Science and Technology
History	HIST	Liberal Arts
Honors	HONR	Honors Program
Kinesiology	KINE	Education
Management	MGMT	Business
Management Information Systems	MISY	Business
Marketing	MKTG	Business
Mathematics	MATH	Science and Technology

Mechanical Engineering	MEEN	Science and Technology
Mexican American Studies	MXAS	Liberal Arts
Military Science	MSCI	Education
Music	MUSI	Liberal Arts
Music (ensemble)	MUEN	Liberal Arts
Nursing	NURS	Nursing and Health Sciences
Occupational Training & Development	OCTD	Education
Operations Management	OPSY	Business
Operations Research/ Management Science	ORMS	Business
Philosophy	PHIL	Liberal Arts
Physics	PHYS	Science and Technology
Political Science	POLS	Liberal Arts
Psychology	PSYC	Liberal Arts
Reading Education	READ	Education
Science, Mathematics and Technology Education	SMTE	Science and Technology
Social Work	SOCW	Liberal Arts
Sociology	SOCI	Liberal Arts
Spanish	SPAN	Liberal Arts
Special Education	SPED	Education
Theatre	THEA	Liberal Arts
Univ. Core Curriculum Programs	UCCP	Univ. Core Curriculum Programs
Women and Gender Studies	WGST	Liberal Arts

Course Numbers

Each course number includes a four-character prefix (identifying the discipline or subject) and a four-digit number. The first digit indicates the level of the course. The second digit usually indicates the credit hour value of the course. The third and fourth digits differentiate the courses in a particular discipline.

Courses numbered in the 1000 and 2000 series are lower-division (freshman or sophomore) courses. The University uses the Texas Common Course Numbering System as the basis for numbering most lower-division courses.

Courses numbered in the 3000 and 4000 series are upper-division (junior or senior) courses.

Courses numbered 5000 or higher are graduate courses. Courses at the 5000 level are open only to students with graduate status and senior undergraduates who meet specific criteria. (See “Graduate Study by Undergraduates” in the “Undergraduate Programs” section of this catalog.) Graduate courses are listed in the Graduate Catalog.

Courses at the 6000 level are open only to students admitted to a doctoral program, or with permission from the program coordinator.

Courses numbered in the 0000 series, such as 0399, are remedial or developmental courses that do not count toward graduation.

Prerequisite/Corequisite

A prerequisite is a requirement that must be completed before a course may be attempted. A corequisite is a requirement that must be completed at the same time a course is attempted.

List of Undergraduate Courses

Undergraduate courses are listed here. Course descriptions may include projected scheduling information. Individual courses, however, are subject to change or withdrawal at any time and may not be offered every semester or every year. When registering for courses, please consult the semester class schedule, a separate publication that provides specific course offering information for a particular semester or session.

Common Courses Designated in Course Descriptions

Freshman and sophomore-level courses that are considered equivalent to courses in the Texas Common Course Numbering System (TCCNS) are identified at the beginning of their course descriptions. The TCCNS prefix and number may be found immediately after the A&M-Corpus Christi prefix and number. Examples follow:

ACCT 2301 (ACCT 2301)
COMM 1315 (SPCH 1315)

For a list of all common courses taught at A&M-Corpus Christi, see the appendix titled “Lower-Division Transfer Courses: Common Courses.”

Course Descriptions

Accounting

ACCT 2301 - Financial Accounting

3 sem. hrs.
Financial accounting concepts and their application in the accounting process for business organizations including financial statement preparation, analysis and communication of financial information.

ACCT 2302 - Managerial Accounting

3 sem. hrs.
The use of accounting information as an aid to management decision making, including performance measurement and budgets. Prerequisite: ACCT 2301.

ACCT 3311 - Intermediate Accounting I

3 sem. hrs.
An intensive study of the balance sheet accounts and the related income statement accounts. It exposes the student to the various Accounting Principles Board opinions and Financial Accounting Standards Board statements as these publications affect the various accounts and transactions. It covers the various working capital accounts and operational assets. Prerequisites: ACCT 2301, ACCT 2302, and Junior standing or above.

ACCT 3312 - Intermediate Accounting II

3 sem. hrs.
A continuation of Intermediate Accounting I involving non-current liabilities and owner equity accounts, the Statement of Cash Flows, pensions, deferred Income Tax, financial statement analysis and several special problem areas. Prerequisites: ACCT 3311 and Junior standing or above.

ACCT 3314 - Cost Accounting

3 sem. hrs.
A study of procedures and concepts in allocating the costs of firm inputs to outputs, determination and use of standard costs in the control function, profit planning and control techniques used in management decision-making. Prerequisites: ACCT 2301, ACCT 2302, and Junior standing or above. (MISY 2305 recommended.)

ACCT 3315 - Multinational Entities: Accounting and Consolidations

3 sem. hrs.
A study of the similarities and differences between U.S. and other countries' accounting and reporting procedures. Basic consolidation of international segments will be covered. Use of spreadsheets and web technology required. Prerequisites: ACCT 2302 and Junior standing or above.

ACCT 3316 - Governmental and Municipal Accounting

3 sem. hrs.
A study of fund accounting used in governmental entities and non-profit organizations. Emphasis on budgetary and fund accounts. Prerequisites: ACCT 2301, ACCT 2302, and Junior standing or above.

ACCT 3317 - Oil, Gas, & Energy Accounting

3 sem. hrs.
This course covers the basic principles of oil and gas accounting. Course topics include upstream oil and gas operations, successful efforts accounting, full cost pool accounting, accounting for production, exploration and construction, joint interest accounting, international operations, oil and taxation and analysis of oil and gas financial statements. Prerequisites: ACCT 3311 or equivalent and Junior standing or above.

ACCT 3321 - Federal Income Tax I

3 sem. hrs.
Emphasizes the role of taxation in the business decision-making process. The course introduces the tools to conduct basic tax research and planning. Prerequisites: ACCT 2301, ACCT 2302, and Junior standing or above.

ACCT 3322 - Federal Income Tax II

3 sem. hrs.
Examines additional, more complex topics in business decision-making, tax research, and tax planning. Prerequisites: ACCT 3321 and Junior standing or above.

ACCT 3340 - Fraud Examination

3 sem. hrs.
This course covers the basic principles of fraud examination. Course topics include the behavioral aspects of fraud and common fraud schemes including skimming, larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement, non-cash misappropriations, corruption and bribery, and fraudulent financial statements. Prerequisites: ACCT 2301, ACCT 2302 or equivalent and Junior standing or above.

ACCT 3355 - Accounting Information Systems

3 sem. hrs.
A study of the role of accounting information systems and related subsystems in both for profit and not-for-profit entities. The relationship of accounting information systems to other systems, including management information systems, is addressed. Concepts are reinforced by the completion of computer-based projects. Prerequisites: ACCT 2301, ACCT 2302, MISY 2305, and Junior standing or above.

ACCT 4311 - Auditing Principles and Procedures

3 sem. hrs.
Auditing principles and techniques underlying the audit process; procedures used in conducting external audits, reviews and compilations. Prerequisites: ACCT 3312, and Junior standing or above.

ACCT 4314 - Advanced Accounting Problems

3 sem. hrs.
A study of the organization, operation and liquidation of partnerships; multinational companies; corporate reorganization; estates, trusts, and financial statements for consolidated entities. Prerequisites: ACCT 3312 and Junior standing or above.

ACCT 4345 - Ethics for Accountants and Business Executives

3 sem. hrs.
This course will cover ethical theory, ethical reasoning, integrity, objectivity, independence and other core values and regulatory requirements associated with the practice of professional accounting and decision making of other executives, with an emphasis on corporate governance in the post-Sarbanes-Oxley regulatory environment. **This course satisfies the ethics requirement of the TSCPA; however, it does not count for advanced accounting hours required to sit for the CPA exam.** Students who receive credit for ACCT 4345 cannot also receive credit for ACCT 5345. Prerequisite: Junior Standing or above.

ACCT 4390 - Current Topics in Accounting

3 sem. hrs.
Selected topics for special study related to accounting functions, processes or issues. May be repeated for credit when topics vary. Prerequisites: Junior standing or above, and others depending on topic. Contact the Dean’s office for information.

ACCT 4396 - Directed Individual Study

1-3 sem. hrs.
Individual supervised study and completion of a final report. Prerequisites: permission of instructor, Junior standing or above, and others depending on selected topic. Inquire at the Dean's office for information.

ACCT 4398 - Accounting Internship

3 sem. hrs.
Supervised full-time or part-time, off-campus training in public accounting, industry, or government. Oral and written reports required. Prerequisites: accounting major, and Junior standing or above with a minimum 3.00 accumulated GPA in upper division accounting courses. Student must apply to program and be accepted prior to registration. May not be repeated for credit. May not count as accounting requirement for CPA. State Board of Accountancy may not approve course as an accounting equivalent for CPA.

Anthropology

ANTH 3301 - Cultural Anthropology

3 sem. hrs.
Study of the social life of human groups from their earliest appearance to the present. Analyses of cultures include language, kinship, art, religion, economics, and political behavior. Cross-cultural comparisons allow development of generalizations about social patterns, social structure, and cultural practices found in human societies. (Credit may not be given for both this course and SOCI 3301.)

ANTH 3370 - Native Americans in North America

3 sem. hrs.
An ethnographic and historical analysis of Native American cultures in what is now called North America from prehistoric times to the present. (Credit may not be given for both this course and SOCI 3370.)

ANTH 3390 - Special Topics in Anthropology

3 sem. hrs.
Study of different topics in anthropology including biological, archaeological, cultural, or linguistic subjects. May be repeated when topics vary.

Art

ARTS 1301 - Art and Society

3 sem. hrs. TCCNS Equivalent: ARTS 1301
Designated for non-art majors. Establishes a working vocabulary for evaluating works of art in various media. Objects are interpreted in terms of their specific historical contexts and the changing relationships between art and society. This course does not fulfill the art history requirement for art majors. This course satisfies the university core curriculum requirement in fine arts.

ARTS 1303 - Art History Survey I

3 sem. hrs. TCCNS Equivalent: ARTS 1303
An examination of painting, sculpture, architecture, and other arts from the ancient through medieval periods. This course satisfies the university core curriculum requirement in fine arts.

ARTS 1304 - Art History Survey II

3 sem. hrs. TCCNS Equivalent: ARTS 1304
A further examination of painting, sculpture, architecture, and other arts from the Renaissance through Modern periods. Prerequisite for art majors only: ARTS 1303.

ARTS 1311 - Design I

3 sem. hrs. TCCNS Equivalent: ARTS 1311
A studio course concerning the fundamentals of art with emphasis on two-dimensional concepts.

ARTS 1312 - Design II

3 sem. hrs. TCCNS Equivalent: ARTS 1312
A studio course concerning the fundamentals of art with emphasis on three-dimensional concepts.

ARTS 1316 - Drawing I

3 sem. hrs. TCCNS Equivalent: ARTS 1316
A studio course investigating a variety of media techniques, including their descriptive and expressive possibilities.

ARTS 1317 - Drawing II

3 sem. hrs. TCCNS Equivalent: ARTS 1317
A further investigation of media techniques explored in Drawing I, including their descriptive and expressive possibilities. Prerequisite: ARTS 1316

ARTS 2311 - Design III: Color

3 sem. hrs.
Investigation of the properties of color. Color is studied and applied to studio-oriented design assignments. Prerequisites: ARTS 1303, 1304, 1311, 1312, 1316, 1317.

ARTS 2316 - Painting I

3 sem. hrs. TCCNS Equivalent: ARTS 2316
A studio course exploring the potentials of painting media. Prerequisite: ARTS 1316.

ARTS 2323 - Drawing III

3 sem. hrs. TCCNS Equivalent: ARTS 2323
A studio course introducing the structure and action of the human figure. Prerequisites: ARTS 1303, 1304, 1311, 1312, 1316, 1317.

ARTS 2326 - Sculpture I

3 sem. hrs. TCCNS Equivalent: ARTS 2326
A studio course exploring sculptural approaches in a variety of media.

ARTS 2333 - Printmaking I

3 sem. hrs. TCCNS Equivalent: ARTS 2333
An introductory studio course in basic printmaking processes and techniques. Prerequisite: ARTS 1316.

ARTS 2346 - Ceramics I

3 sem. hrs. TCCNS Equivalent: ARTS 2346
An introductory studio course in basic ceramic processes.

ARTS 2356 - Photography I

3 sem. hrs. TCCNS Equivalent: ARTS 2356
An introductory studio course using digital cameras and image manipulation software. Satisfies university computer literacy requirement.

ARTS 2367 - Watercolor

3 sem. hrs.
A studio course exploring techniques in water-base media.

ARTS 3301 - Life Drawing

3 sem. hrs.
Drawing from the model using a variety of techniques and media. Prerequisite: ARTS 2323.

ARTS 3302 - Intermediate Printmaking

3 sem. hrs.
Opportunity to work with relief, intaglio, lithographic, or screen printing processes to provide limited edition prints. Prerequisite: ARTS 2333.

ARTS 3303 - Intermediate Painting

3 sem. hrs.
Explores the issues of content, imagery, application, and influences of master artists. Prerequisite: ARTS 2316.

ARTS 3304 - Intermediate Sculpture

3 sem. hrs.
A study in sculptural design and expression. Examines the structural pattern of form through the elements and principles of design. Working with classical and contemporary techniques and materials. Prerequisite: ARTS 2326.

ARTS 3316 - Art Activities I

3 sem. hrs.
Practical experience with basic design, drawing, painting, and sculpture, along with a study of art history and criticism. Includes a consideration of how these experiences relate to art curricula in the elementary school. Prerequisites: Completion of lower-division art course work in design (6 sem. hrs.), drawing (6 sem. hrs.), and art history (6 sem. hrs.).

ARTS 3322 - Art Activities II

3 sem. hrs.
Practical experiences with basic design, drawing, painting, printmaking, sculpture, and crafts, along with a study of art history and criticism. Includes a consideration of how these experiences relate to art curricula in the secondary school. Prerequisites: Completion of lower-division art course work in design (6 .), drawing (6 .), and art history (6 .).

ARTS 3324 - Intermediate Ceramics

3 sem. hrs.
Covers wheel-thrown ceramics, basic glazemaking, and an introduction to kiln firing and loading. Prerequisite: ARTS 2346.

ARTS 3350 - Art of the United States

3 sem. hrs.
A survey of the major developments in the art of North America from Pre-Columbian times to the modern era

ARTS 3352 - Modern Art

3 sem. hrs.
A survey of the major movements of 20th century art and aesthetics, which developed primarily in Europe. Includes a review of late 19th century modernist antecedents with emphasis placed on the principal movements of the early 20th century: Fauvism, German Expressionism, Cubism, Futurism, Abstract Art, Dada, and Surrealism.

ARTS 3353 - Contemporary Art, 1945 to the Present

3 sem. hrs.
An examination of the dispersal of European artists and Modernism, primarily to America, as a result of World War II. Examines the development of Abstract Expressionism in New York in the 1940s and 50s, followed by a survey of recent trends in contemporary art to the present day.

ARTS 3365 - Intermediate Photography

3 sem. hrs.
An introductory studio course in traditional camera use, basic darkroom photographic processes and techniques. Prior completion of ARTS 2356 is recommended.

ARTS 4301 - Advanced Drawing

3 sem. hrs.
Emphasis on the development of content through drawing. Prerequisite: ARTS 3301. May be taken three times for credit.

ARTS 4302 - Advanced Printmaking

3 sem. hrs.
Assumes competencies attained in ARTS 3302. May be taken three times for credit.

ARTS 4303 - Advanced Painting

3 sem. hrs.
Assumes competencies attained in ARTS 3303. May be taken three times for credit.

ARTS 4304 - Advanced Sculpture

3 sem. hrs.
Assumes competencies attained in ARTS 3304. May be taken three times for credit.

ARTS 4324 - Advanced Ceramics

3 sem. hrs.
Assumes competencies attained in ARTS 3324. May be taken three times for credit.

ARTS 4350 - Pre-Columbian Art of Mesoamerica

3 sem. hrs.
Explores the history of Pre-Columbian art from Mexico and Central America, from the Olmec through the Aztec cultures. May be taken three times for credit.

ARTS 4352 - Modern Art of Mexico

3 sem. hrs.
Explores the history of art during the nineteenth and twentieth centuries in Mexico. May be taken three times for credit.

ARTS 4365 - Advanced Photography

3 sem. hrs.
Assumes competencies attained in ARTS 3365. Covers content as creative expression in addition to basic photographic skills. May be taken three times for credit.

ARTS 4390 - Topics in Art

3 sem. hrs.
May be repeated when topics vary.

ARTS 4391 - Topics in Studio Art

3 sem. hrs.
May be repeated when topics vary.

ARTS 4396 - Directed Individual Study

3 sem. hrs.
See College description. Offered on application

ARTS 4398 - Applied Experience

3 sem. hrs.
See College description. Offered on application.

GRDS 1301 - Foundations of Graphic Design

3 sem. hrs.
This studio course explores fundamental components of design theory, concept, and composition. Students will explore presentation techniques, printing processes, technical tactile skills associated with the field, defining and exploring a targeted audience, and appropriate software introductions. Students will create printed works utilizing these skill sets.

GRDS 1302 - Typography I

3 sem. hrs.
Through the use of lectures, demonstrations and studio work students are introduced to the art of typography. An emphasis is placed on the history of type, anatomy of letter forms and appropriate uses of prescribed type faces. Hand rendering and digital media are used.

GRDS 2301 - Historical Perspectives of Graphic Design

3 sem. hrs.
This studio course examines the history of graphic design from the invention of writing to present day composition. Students will explore various movements in graphic design history and create design works that reflect these periods.

GRDS 2302 - Design Studio I

3 sem. hrs.
This course introduces the fundamental principles of the graphic design industry. Students strengthen their vocabularies in

design, theory, and visual communication. Exploring various two-dimensional projects, students will conduct research, form opinions, foster ideas, solve communication problems, learn to analyze and discuss graphic design work, and continue to develop their own creative process. Prerequisites: GRDS 1301 and 1302.

GRDS 3301 - Typography II

3 sem. hrs.
Through readings, writing assignments, lectures, and studio projects, students explore the relationship of type to cultural, political, and psychological dynamics of information exchange. The ideas of intellectual impact, complex hierarchy, active/passive readership, and emotional expression are all explored with the emphasis on user experience in typographic design. Prerequisites: GRDS 1301, 1302, 2301, and 2302.

GRDS 3302 - Design Studio II

3 sem. hrs.
This course encourages students to further develop their design process by reflecting on their own personal and artistic identities, while identifying and communicating to a specific audience. Through a series of print and three-dimensional projects, students work to balance their own voice and develop strong conceptual thinking and formal experimentation methods. Prerequisites: GRDS 1301, 1302, 2301, and 2302.

GRDS 3303 - Design for Good

3 sem. hrs.
The studio course examines the role of design in society, specifically investigating areas that affect well-being, cultural intelligence and political propaganda. The topics in this course are explored through lectures, independent research and the creative development of body of work. Prerequisites: GRDS 1301, 1302, 2301, and 2302.

GRDS 3305 - Packaging Design

3 sem. hrs.
This studio course will teach students how to develop creative strategies for problem solving in a client-based environment. Focusing on three-dimensional packaging, students will learn how design applies to various surfaces, products, and audiences. Prerequisites: GRDS 1301, 1302, 2301, and 2302.

GRDS 3310 - Corporate Identity

3 sem. hrs.
The conceptual and visual standards pertinent to creating a brand will be explored. Major aspects of visual identity will be emphasized and developed including logotypes, typographic sets, color palettes, graphic standards, and stationary sets. Prerequisites: GRDS 1301, 1302, 2301, and 2302.

GRDS 4304 - Emerging Technologies

3 sem. hrs.
This studio course will teach students how to develop creative strategies for problem solving in a client-based environment. This studio explores the use of emerging technology in a computer-aided environment to enhance the user experience in interactive media. Prerequisites: GRDS 1301, 1302, 2301, 2302, 3301, and 3302 .

GRDS 4306 - Publication and Editorial Design

3 sem. hrs.
This studio course explores the foundations of publication and editorial design to expand students' design vocabulary. Students will explore the role of a graphic designer/art director in developing effective and innovative communication for editorial design. Prerequisites: GRDS 1301, 1302, 2301, 2302, 3301, and 3302.

GRDS 4309 - Design in Advertising

3 sem. hrs.
This studio course will teach students how to develop creative strategies for problem solving in a client-based environment. This studio focuses on adversting design as it applies to print, multimedia, outdoor, and direct mail design for a chosen audience. Prerequisites: GRDS 1301, 1302, 2301, 2302, 3301, and 3302.

GRDS 4310 - Portfolio and Professional Practices

3 sem. hrs.
This studio course teaches students the importance of self-promotion while focusing on professional practices. Guest speakers will join the class for discussion, critique and lecture pertaining to various facets of the fine art and digital art professions. Students will develop printed and digital portfolios, a resume, and an artist statement. Prerequisites: GRDS 1301, 1302, 2301, 2302, 3301, and 3302. Note: May be taken three times for credit.

GRDS 4399 - Internship

3 sem. hrs.
This course allows students to complete a semester long internship within their area of interest in the design or adverstising field. The student must work on-site at an approved local company a maximum of 10 hours per week. Through the use of reflective journals, project portfolios, and employer feedback, the student will report his/her experience to their supervising professor throughout the experience. Can be repeated for credit. Prerequisites: Approval of Instructor. Note: May be repeated for credit.

Astronomy

PHYS 1303 - Introduction to Astronomy: Stars and Galaxies

3 sem. hrs. (2:2) TCCNS Equivalent: PHYS 1303
This is one of two courses in the introduction to astronomy sequence which emphasizes the nature of astronomical phenomena over the mathematical analysis of them. This course will focus mostly on the nature of light, the nature and evolution of stars, the material between the stars, the Milky Way Galaxy, external galaxies, and the structure and evolution of the universe as a whole. This course counts toward the natural science component of University Core Curriculum. SMTE 0095 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

PHYS 1304 - Introduction to Astronomy: Solar System

3 sem. hrs. (2:2) TCCNS Equivalent: PHYS 1304
This is one of two courses in the introduction to astronomy sequence which emphasizes the nature of astronomical phenomena over the mathematical analysis of them. This course introduces astronomical phenomena related to the Solar System such as apparent motion of the Sun, phases of the Moon and apparent and true motion of the planets. Main focus will be on the objects comprising the Solar System: planets, their moons, asteroids, comets and trans-Neptunian bodies. A portion of the course will be dedicated to the formation and development of the Solar System and other, extrasolar planetary systems. The course also will touch the aspects of human exploration of the Solar System and the role of technology in our learning and understanding of the Solar System. This includes the history and the basics of robotic and manned spaceflights. This course counts toward the natural science component of University Core Curriculum. SMTE 0095 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

Atmospheric Science

ATSC 2101 - Weathercasting

1 sem. hrs. (1:0)
This course is to practice in preparing and presenting weathercasts for radio and television. The instructors of this course will provide the students with: (1) information in the form of lectures and supplemental readings; (2) opportunities to practice weathercasting on video, and (3) advice, supervision, and guidance. In lecture, students will spend most of the course learning about geography and weathercasting rules. A large portion of the course is to practice the weathercasting and report. Prerequisite ATSC 3403.

ATSC 2301 - Weather Observations

3 sem. hrs. (3:0)
This course is an introduction of the basic concept of meteorology. The focus is on the measurements of the atmosphere and weather related phenomenon. The principle of the instruments used to measure temperature, pressure, moisture, radiation,

precipitation and other weather related properties of the atmosphere will be introduced. The differences among the observations from in-situ, balloon borne, airborne, and satellite borne instruments will be examined and discussed. Prerequisite: ATSC 3403.

ATSC 3305 - Physical Meteorology

3 sem. hrs. (3:0)
This course will cover the fundamentals of atmospheric physics including the atmospheric composition, kinetic theory of gases, moist processes, aerosol, solar and terrestrial radiation, scattering of electromagnetic radiation and radiative transfer. Prerequisites: ATSC 3403 and PHYS 2426.

ATSC 3306 - Atmospheric Thermodynamics

3 sem. hrs. (3:0)
This course introduces a foundation in the thermodynamics of the atmosphere. After a brief review of general thermodynamics, the emphasis is given to the basic principles that are useful for the application to atmospheric problems. The course covers a number of atmospheric processes that are basically thermodynamic in nature. The specific topics include aerological diagrams, atmospheric statics, and vertical stability. Prerequisite: ATSC 3403 and PHYS 2425.

ATSC 3401 - Synoptic Meteorology

4 sem. hrs. (3:2)
This course focuses on introducing middle-latitude synoptic weather phenomenon, including planet waves, frontal systems etc. We will apply principles of Dynamic Meteorology in regards to processes in the atmosphere, weather elements and forecasting. We will examine the structure and dynamics of these systems by integrating weather observations with the current state of dynamic theory, numerical weather prediction models, and the physical principles of atmospheric thermodynamics and cloud and precipitation physics. Prerequisite: ATSC 3306 - Atmospheric Thermodynamics. SMTE 0096 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

ATSC 3402 - Mesoscale Meteorology

4 sem. hrs. (3:2)
This course focuses on introducing mesoscale weather systems including thunderstorms, squall lines and hurricanes, as well as the mechanisms of tornado and lighting. The methods of observing, analyzing, and predicting these severe weather systems with the interpretation of satellite and radar images will also be introduced in this class. Prerequisite: ATSC 3306 - Atmospheric Thermodynamics. SMTE 0096 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

ATSC 3403 - Introduction to Meteorology

4 sem. hrs. (3:2)
This course is an introduction to meteorology and the dynamics of planetary atmospheres. Emphasis on atmospheric accretion, composition, evolution, structure, and dynamics. Lab exercises cover basic measurement techniques, weather maps, and forecasting. A student cannot receive credit for both this course and ESCI 3403 - Introduction to Meteorology. SMTE 0096 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

ATSC 4301 - Dynamic Meteorology I

3 sem. hrs. (3:0)
This course focuses on introductory-level atmospheric dynamics. Basic concepts of geophysical fluid dynamics and its application to a variety of atmospheric phenomena are introduced. Specific topics include the equations of motion on rotating earth, vorticity, potential vorticity, divergence, circulation theorem, and planetary wave. Prerequisites: ATSC 3306 and MATH 2414.

ATSC 4302 - Dynamic Meteorology II

3 sem. hrs. (3:0)
This course is a continuation of ATSC 4301 (Dynamic Meteorology I), which covers the introductory-level atmospheric dynamics. The course introduces more advance materials including equatorial waves, baroclinic and barotropic instability, two-dimensional turbulence, atmospheric teleconnection, El Nino/Southern Oscillation, Madden-Julian Oscillation, global warming, and numerical modeling of atmospheric circulations. Prerequisite: ATSC 4301 .

ATSC 4305 - Remote Sensing

3 sem. hrs. (3:0)
This course aims to introduce the fundamentals of satellite/airborne remote sensing techniques and demonstrates its application to various aspects of Earth Sciences. Topics include physical principles of remote sensing from ultraviolet to the microwave, radiometry, sensors and sensor technology, calibration, and environmental applications for land, ocean and atmosphere research. Prerequisite: PHYS 2426.

ATSC 4335 - Climate and Climate Variability

3 sem. hrs. 3:0
This course intended to guide environmental science undergraduate students in developing a conceptual understanding of Earth's global climate and its variability. Review past climates, present mean state of the climate system, climate variability from seasonal to multi-decadal time scales, and climate change. Special attention will be given to climates of the Gulf of Mexico, Caribbean Sea and surrounding land regions. Plausible climate-change scenarios, as well as mitigation and adaptation strategies will also be discussed. Prerequisite: ATSC 3403 or ESCI 3351.

ATSC 4496 - Directed Independent Study

1-4 sem. hrs. (1-4:0-4)
Requires a formal proposal of study to be completed in advance of registration and to be approved by the supervising faculty, the Chairperson, and the Dean of the College.

ATSC 4590 - Selected Topics

1-5 sem. hrs. (1-5:0-4)
This course includes special topics with variable content. May be repeated for credit. Offered on sufficient demand. Prerequisite: Consent of the instructor.

Bilingual/ESL/Multicultural

BIEM 4344 - Educational Psychology and the Bilingual Child

3 sem. hrs.
Studies of the principles of educational psychology as applied to bilingual children.

BIEM 4345 - Language Acquisition and Development

3 sem. hrs.
A study of language acquisition and development with special reference to implications for monolingual and bilingual learners.

BIEM 4349 - Linguistics for Bilingual Teachers

3 sem. hrs.
A study of the phonological, morphological, syntactical, lexical, and semantic characteristics of contemporary Spanish and English. The course focuses on Spanish-English bilingualism.

BIEM 4351 - The Minority Child

3 sem. hrs.
Introduces students to themes and issues associated with the education of the minority child; modes of learning in various curriculum subjects; relation of materials and methods to affective and cognitive aspects of learning; information concerning the learning strengths and needs of children from various minority groups. (May be used to satisfy COE multicultural requirement.)

BIEM 4355 - Language Arts Studies in the Bilingual Curriculum

3 sem. hrs.
Basic methodological strategies and assessment skills required to teach language arts in the elementary bilingual classroom are provided. Emphasis is on teaching in Spanish.

BIEM 4356 - Content Area Studies in the Bilingual Curriculum

3 sem. hrs.
The concepts and skills required to teach health, mathematics, science, and social studies in the elementary bilingual classroom are provided.

BIEM 4357 - Methods of Teaching English as a Second Language

3 sem. hrs.
Studies in methodology and techniques available for teaching those whose native language is not English. Testing and assessment of English language learners will be integrated into the course.

BIEM 4360 - Foundations in Bilingualism

3 sem. hrs.
The philosophical and legal foundations of bilingual schooling in the United States through a sociohistorical approach. The rationale for bilingual education is examined, as are the basic program models. An overview of bilingual education in Texas is also provided.

BIEM 4393 - Field Studies in Family Literacy

3 sem. hrs.
Field experiences designed to develop skills regarding the orientation of the adult population to bilingual/ESL purposes and philosophy, improving parental involvement, and English literacy skills.

BIEM 4696 - Directed Individual Study

3 sem. hrs.
Programs will be designed for individual cases through special permission of the Department Chair and Dean. May be repeated for credit when the topic varies.

Biomedical Science

BIMS 2171 - Medical Terminology

1 sem. hrs. (1:0)
This course stresses familiarity with and facility in scientific terminology. Areas of focus include: an introduction to scientific terminology, word analysis, etymologies, spelling and pronunciation. Prerequisite: BIOL 1407.

BIMS 2200 - Professional Skills

2 sem. hrs. (2:0)
Presentation and discussion of selected topics relating to the professional skills of practicing scientists including literature searches, reviews, paper presentation, professional opportunities and job requirements. Biomedical Sciences and Biology majors only; satisfies computer literacy requirements.

BIMS 3102 - Essentials Laboratory for Clinical Laboratory Science

1 sem. hrs. (0:3)
Application of essential practices for clinical laboratory science. Prerequisite or Co-requisite: BIMS 3100. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 3103 - Essentials Laboratory for Forensic Science

1 sem. hrs. (0:3)
Application of essential practices for forensic science. Prerequisite or Co-requisite: BIMS 3100. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 3200 - Essentials for Applied Laboratory Sciences

2 sem. hrs. (1:0)
Introduction to general laboratory procedures, laboratory safety and regulations, quality assurance, professional ethics, specimen acquisition, sample maintenance and microscopy. Includes an introduction to the health care, public health and criminal investigation system. Prerequisites: BIOL 1407 and CHEM 1412.

BIMS 3300 - Animal Nutrition

3 sem. hrs. (3:0)
Examines the dietary requirements of both companion animals and livestock. Includes the anatomy, physiology and biochemistry of the gastrointestinal system, nutrient procurement and use, feed additives, growth stimulants, metabolic diseases, and diet therapy. Prerequisites: BIOL 1407 and CHEM 3411. Prerequisite or Corequisite CHEM 3412.

BIMS 3301 - Introduction to Animal Science

3 sem. hrs. (3:0)
This course is an orientation into animal science as it relates to agriculture and veterinary medicine. Students will also be guided on issues to ensure successful veterinary school matriculation.

BIMS 3320 - Survey of Forensic Science

3 sem. hrs. (2:2)
A survey of the methods and materials used to gather and process evidence at potential crime scenes. Students are introduced to the legal rules of evidence and their practical ramifications during scientific criminal investigations. In laboratory, students use commonly available processing items and tools to investigate a simulated crime scene. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 3325 - Professional Practice in Forensic Science

3 sem. hrs. (3:0)
An introduction to industry standards and ethics for professional forensic scientists. This course analyzes cognitive processes, scientific methods and quality control/quality assurance issues in forensic investigations. It also stresses maintaining credibility in an adversarial legal system through the development of technical/scientific speaking and writing skills. Prerequisite: BIMS 3320.

BIMS 3401 - Pathophysiology

4 sem. hrs. (4:0)
This course is a study of the biological basis of human disease. It includes an investigation of inflammation, immunity, and neoplasia, as well as the more common presenting dysfunctions of body systems. Prerequisites: CHEM 1411 and BIOL 1407 or BIOL 2401.

BIMS 3403 - Molecular Biology

4 sem. hrs. (3:3)
Principles of molecular biology including advanced concepts of gene structure, expression, replication, and current molecular biology techniques. Laboratory emphasis is on cloning and recombinant DNA technology. Prerequisites: BIOL 2416 and BIOL 2421. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4111 - Contemporary Scientific Readings

1 sem. hrs. (1:0)
Students read one non-fiction book per month addressing some aspect of medicine, science or history (four books per semester), then meet once per month to discuss, analyze and defend their perceptions about the book. Only open to students accepted into the Partnership for Primary Care and the Joint Admissions Medical Program (JAMP), those who are seeking admission into JAMP by participating in the pre-JAMP and students in other sponsored programs. This course may be repeated once for full credit in subsequent semesters.

BIMS 4170 - Biomedical Seminar

1 sem. hrs. (1:0)
A series of seminars on current topics of biomedical research. This course may be repeated once for full credit in subsequent semesters. Prerequisite: BIOL 1407.

BIMS 4182 - Seminar – Clinical Correlations

1 sem. hrs. (1:0)
Informal lectures covering the newest developments in laboratory medicine. Includes discussion of the patient's clinical laboratory results, selection and interpretation of laboratory tests, and presentation of research. Requires permission of instructor and application.

BIMS 4200 - Professional Skills for Clinical Laboratory Scientists

2 sem. hrs. (2:0)
Study of the role of the medical laboratory professional in the health care system. Includes professional ethics, legal responsibility, medical laboratory management, instructional methods, evaluation of clinical laboratory methods, medical laboratory instrument selection, clinical research and current professional topics. Satisfies computer literacy requirements. Requires permission of instructor and application.

BIMS 4295 - Biomedical Practicum

2 sem. hrs.
Supervised learning experience with a community professional in health care (e.g., physician, dentist, veterinarian, chiropractor, pharmacist, physician assistant or physical therapist). On-campus meetings, oral and written reports are required. (Cannot be taken by Clinical Laboratory Science students in lieu of BIMS 4297.) This course may be repeated once for full credit in subsequent semesters. Requires permission of instructor.

BIMS 4296 - Clinical Research

2 sem. hrs.
Students will actively perform clinical research and learn from and interact with health care professionals such as physicians, nurses, physical therapists, pharmacists, etc. The student will be a functioning member of a research team with specific, measurable responsibilities in clinical studies. Prerequisite: BIOL 1407. SMTE 0092 Biomedical Laboratory Safety Seminar is a

co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course.

BIMS 4297 - Professional Practicum I

2 sem. hrs.
Supervised learning experience in selected departments of the clinical laboratories. Clinical Laboratory Science students only. Requires permission of instructor and application.

BIMS 4299 - Directed Independent Research

1-2 sem. hrs. (0:1-2)
Independent laboratory- or field-based research project on topic of current interest. Project developed and funded in conjunction with a faculty advisor. Written report required. Prerequisites: Junior class standing, BIOL 1407 and CHEM 1412 and consent of instructor. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. May be repeated for a maximum of 4 semester hours credit. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4311 - Biology of Cancer

3 sem. hrs.
This course is a study of the profile of a cancer cell, and the various causes of human cancer. Contribution of heredity, environmental factors, and infectious agents to oncogenesis will be studied. Cancer screening, diagnosis, and treatment will be discussed. Various types of cancer will be presented. Prerequisite: BIOL 2416. BIOL 3410 is strongly recommended.

BIMS 4323 - Neurobiology

3 sem. hrs. (3:0)
Studies the anatomy and physiology of the nervous system. Includes an examination of evolutionary trends in nervous system development, neural function, nerve impulse transmission, sensory and motor systems, behavior, emotional states, learning and memory. Particular emphasis is placed on human functioning. Prerequisite: BIOL 2416.

BIMS 4325 - Clinical Chemistry I

3 sem. hrs. (2:3)
Principles and practice of procedures found in general clinical chemistry. Includes the methodology of diagnostic tests and normal and abnormal human physiology as applied to diagnosis of pathological conditions. Prerequisites: CHEM 4401. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4326 - Clinical Chemistry II

3 sem. hrs. (3:0)
Continuation of BIMS 4325. Emphasis on advanced clinical chemistry topics and procedures. Prerequisite: BIMS 4325. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course.

BIMS 4327 - Introduction to Toxicology

3 sem. hrs. (3:0)
Principles of toxicology including absorption and excretion, biotransformation, chemical carcinogenesis, developmental toxicology and toxic agents. Prerequisites: BIOL 1407 and CHEM 1412.

BIMS 4330 - Biological Basis of Aging

3 sem. hrs. (3:0)
Molecular aspects of aging and disease, including biological mechanisms and theories involving cells, tissues, and organ systems. Prerequisites: BIOL 1407 and CHEM 3411.

BIMS 4331 - Health Disparities

3 sem. hrs. (3:0)
This course will examine the social/societal, physical/environmental, biological, and genetic/epigenetic factors that are fundamental in creating disparities in health in America. This course will also focus on the formulation and implementation of public policy objectives to reduce and ultimately eliminate health disparities. Prerequisite: BIOL 1407

BIMS 4333 - Medical Entomology

3 sem. hrs. (3:0)
An introduction to arthropods of medical and veterinary importance with particular emphasis on the critical roles that they play in their host group's health and well-being. Prerequisite: BIOL 1407.

BIMS 4334 - Human Genetics

3 sem. hrs. (3:0)
Introduction to the genetic aspects of health and disease. Classic Mendelian and chromosomal disorders are examined as well as the relationship of genetic predisposition to the healthy state and to diseases/conditions. Prerequisites: CHEM 3412 and BIOL 2416

BIMS 4335 - Endocrinology

3 sem. hrs. (3:0)
Basic biochemical and molecular aspects of hormone physiology, basic endocrine function and hormone action, immune-endocrine interactions, and clinical examples of the outcomes of abnormal function in human disease. Prerequisites: BIMS 2200 or BIOL 2200, CHEM 3412 and BIOL 2416.

BIMS 4340 - Forensic Science in Criminal Law

3 sem. hrs. (3:0)
Students will learn legal procedures, rules of evidence, and applications of forensic science in the area of criminal law. Students will also develop skills in report writing and testifying in court. Prerequisite: BIMS 3320.

BIMS 4370 - Clinical Bacteriology

3 sem. hrs. (2:3)
Lecture and laboratory studies of common pathogenic bacteria. Emphasis is on staining, cultural, and differential biochemical characteristics, methods of isolation from body fluids and susceptibility to therapeutic agents. Prerequisite or Co-requisite: BIMS 2421. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4371 - Clinical Microbiology

3 sem. hrs. (3:3)
Lecture and laboratory studies of parasitic, viral, mycological and unusual bacterial human pathogens. Emphasis on methods of isolation from body fluids, identification methods and correlation with pathology. Prerequisite: BIOL 2421. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4374 - Medical Microbiology

3 sem. hrs. (3:0)
Study of common human pathogenic organisms. Includes bacterial, parasitic, viral and fungal infections with emphasis on pathogenesis and treatment. Prerequisite: BIOL 2421

BIMS 4375 - Mechanisms of Microbial Pathogenesis

3 sem. hrs. (3:0)
Studies of how microorganisms invade the host and produce pathological symptoms associated with diseases. Emphasis is on the

interaction between various host cells and pathogens, especially molecular mechanisms of pathogenesis and host immune responses. Prerequisite: BIOL 2421.

BIMS 4380 - Introduction to the Clinical Laboratory Profession

3 sem. hrs. (3:0)
Studies of the latest instrumentation, instrument selection, basic research, quality assurance and statistics used in the clinical laboratory. Prerequisites: BIMS 3200 and CHEM 4401, and MATH 1442. Permission of instructor and application required.

BIMS 4382 - Advanced Medical Laboratory Procedures

3 sem. hrs. (2:3)
Lecture and laboratory studies of the newest development in laboratory diagnostic medicine. Includes advanced clinical chemistry, immunology and molecular diagnostic procedures. Prerequisites: BIMS 4406 or BIOL 4406, BIMS 4325 and CHEM 4401. Permission of instructor and application required. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4395 - Forensic Science Internship

3 sem. hrs.
This course is designed to bridge the gap between academic instructions and the forensic science industry by providing real world experience in forensic investigations. Students attend lectures on campus, plus spend five hours/week at a crime laboratory. Students will accompany crime scene investigators to actual crime scenes and participate in several hands on forensic exercises involving mock as well as real investigations. Prerequisite or Co-requisite: BIMS 3320, Survey of Forensic Science.

BIMS 4396 - Directed Independent Study

1-3 sem. hrs. (1-3:0)
Research in areas of current interest. Written report required. Prerequisites: BIOL 1407 and CHEM 1412 and consent of instructor. May be repeated for a maximum of 6 semester hours credit.

BIMS 4406 - Immunology

4 sem. hrs. (3:3)
An overview of immunology with emphasis on current knowledge of the immune system. Detailed examination of the specific cells, cytokines, antibodies, and molecules that comprise the immune system. Laboratory exercises demonstrate the basic principles and techniques used in immunologic studies. Prerequisite: BIOL 2421 (BIOL 3410 or 3345 recommended). SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4410 - Histology

4 sem. hrs. (3:3)
The study of cells and tissues, especially the manner in which they are organized to form organs and systems. Laboratories involve intensive use of the microscope to identify cells, tissues and organs. Prerequisites: BIOL 3425. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4420 - Hematology

4 sem. hrs. (3:3)
Studies of the formation, function and identifying characteristics of the cellular elements of human blood and other body fluids in health and diseased states and laboratory studies on blood coagulation. Lecture and laboratory emphasize the enumeration, morphology and staining characteristics of normal and abnormal cells and hemostasis. Prerequisite: BIOL 2416, CHEM 4401. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4430 - Clinical Immunology

4 sem. hrs. (3:3)
Theoretical aspects of the immune response and its relationship to the diagnosis of disease and clinical immunohematology. Lecture and laboratory stress the detection, identification and characterization of antibodies, blood grouping and typing, compatibility testing, blood component therapy, HLA testing and diagnosis of pathological conditions. Prerequisite: BIMS 4406 or BIOL 4406. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4590 - Selected Topics

1-5 sem. hrs. (1:0-3:4)
Variable content. May be repeated for credit. Prerequisite: Consent of the instructor. Offered on sufficient demand. When laboratory hours are included, safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIMS 4598 - Professional Practicum II

5 sem. hrs.
Continuation of BIMS 4297. Requires permission of instructor and application.

BIMS 4599 - Professional Practicum III

5 sem. hrs.
Continuation of BIMS 4598. Requires permission of instructor and application.

Biology

BIOL 1308 - Science for Life I (Non-Majors Biology)

3 sem. hrs. 2:1 TCCNS Equivalent: BIOL 1308

A non-majors science course in which students will learn basic biological principles, identify the relevance of science in everyday life, and will understand the scientific method. Hands-on lab activities will reinforce course concepts. This course does not substitute for biology BIOL1406/1407 for science majors. Non-Majors Biology I SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course.

BIOL 1406 - Biology I

4 sem. hrs. (3:2) TCCNS Equivalent: BIOL 1406

Presentation of basic biological concepts including scientific method, cytology, energetics, nucleic acids and genetics. This course is suitable for all majors. This course counts toward the natural science component of the University Core Curriculum. Students must place into Biology 1406 by achieving a sufficient score on either the SAT or ACT or completing a mathematics course. SAT scores required for placement in Biol 1406 are 500 on Critical Reading Section and 500 on the Mathematics section. An ACT score of 21 on each of the Math, English, and Reading sections can also be used. Students with test scores lower than this may take Biol 1406 if they completed a precalculus course in high school or have completed Math 1314 College Algebra or equivalent.

SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 1407 - Biology II

4 sem. hrs. (3:2) TCCNS Equivalent: BIOL 1407

This course is an overview of the major concepts in biological diversity and plant and animal biology. Laboratory work will

include individual/team activities as well as technology-related assignments. This course counts toward the natural science component of the University Core Curriculum. Prerequisite: BIOL 1406.
SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 2200 - Professional Skills

2 sem. hrs. (2:0)
Presentation and discussion of selected topics relating to the professional skills of practicing scientists including literature searches, reviews, paper presentation, professional opportunities and job requirements. Biology and Biomedical Science majors only; satisfies computer literacy requirements. Students may substitute UCCP 1101 - First-Year Seminar I. (or HONR 1101 - Honors Freshman Seminar) and UCCP 1102 - First-Year Seminar II. (or HONR 1102 - Honors Freshman Seminar) for this course.

BIOL 2371 - Principles of Evolution

3 sem. hrs. (3:0)
An overview of the structure and function of organisms in adapting to the environment. Provides a foundation for molecular, cellular, and organismal studies in the biological sciences. Prerequisite: BIOL 1407

BIOL 2401 - Anatomy and Physiology I

4 sem. hrs. (3:2) TCCNS Equivalent: BIOL 2401
Structure and function of the human body emphasizing biological chemistry, cell biology, tissues, and the integumentary, skeletal, muscular, and nervous systems. Not recommended for majors in the College of Science and Engineering. To count this course toward a major in the Department of Life Sciences, a student must demonstrate that it is required by professional schools in his or her career track and obtain approval for a substitution from his or her faculty mentor. Students may not receive credit for both this course and either BIOL 3425 or BIOL 3430. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Not recommended for Biology or Biomedical Sciences majors. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 2402 - Anatomy and Physiology II

4 sem. hrs. (3:2) TCCNS Equivalent: BIOL 2402
Structure and function of the human body emphasizing blood, growth, development, genetics, and the endocrine, digestive, respiratory, cardiovascular, lymphatic, immune and urogenital systems. Not recommended for majors in the College of Science and Engineering. To count this course toward a major in the Department of Life Sciences, a student must demonstrate that is is required by professional schools in his or her career track and obtain approval for a substitution from his or her faculty mentor. Students may not receive credit for both this course and either BIOL 3425 or BIOL 3430. BIOL 2401. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Not recommended for Biology or Biomedical Sciences majors. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 2416 - Genetics

4 sem. hrs. (3:2) TCCNS Equivalent: BIOL 2416
Principles of genetic transmissions and molecular basis of heredity and variation. Weekly recitation periods will involve team assignments, problem solving activities, and seminars. Prerequisites: BIOL 1406 - Biology I with a grade of 'C' or above, BIOL 1407 - Biology II, CHEM 1411 - General Chemistry I and CHEM 1412 - General Chemistry II. Satisfies computer literacy requirements.

BIOL 2420 - Principles of Microbiology

3:2 sem. hrs. TCCNS Equivalent: BIOL 2420
Introduction to microorganisms with emphasis on those of importance in patient care. Principles of disinfection, sterilization, immunity. This class is intended for nursing majors; it cannot substitute for BIOL 2421 - Microbiology . SMTE 0092 SMTE 0092 - Biomedical Laboratory Safety Seminar Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 2421 - Microbiology

4 sem. hrs. (3:3) TCCNS Equivalent: BIOL 2421
An introduction to microorganisms including the bacteria, fungi, and viruses. Laboratory involves microbiological techniques and development of basic laboratory skills. Prerequisites: BIOL 1406 - Biology I with a grade of 'C' or above, BIOL 1407 - Biology II, CHEM 1411 - General Chemistry I, CHEM 1412 - General Chemistry II, or permission of instructor. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 2472 - Principles of Botany

4 sem. hrs.
Introduction to the structure, function, diversity and application of plants. Laboratory focus on anatomical features, physiological adaptations, classification, and life cycles. Prerequisites: BIOL 1407, CHEM 1311 or consent of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3300 - Animal Nutrition

3 sem. hrs. (3:0)
Examines the dietary requirements of both companion animals and livestock. Includes the anatomy, physiology and biochemistry of the gastrointestinal system, nutrient procurement and use, feed additives, growth stimulants, metabolic diseases, and diet therapy. Prerequisites: BIOL 1407 and CHEM 3411. Prerequisite or corequisite: CHEM 3412.

BIOL 3345 - Cell Physiology

3 sem. hrs. (3:0)
Emphasis on cellular functions that underlie physiological processes, transport across membranes, membrane potential and excitability, the cell nucleus, and organelles and their relationship to energy, metabolism, and transport mechanisms within the cell. Prerequisites: BIOL 2200 or BIMS 2200, BIOL 3410.

BIOL 3403 - Molecular Biology

4 sem. hrs. (3:3)
Principles of molecular biology including advanced concepts of gene structure, expression, replication, and current molecular biology techniques. Laboratory emphasis is on cloning and recombinant DNA technology. Prerequisites: BIOL 2416 and BIOL 2421. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3410 - Cell Biology

4 sem. hrs. (3:3)
Study of cellular architecture and function. Topics include membranes, transport, organelles, cytoskeleton, and signaling mechanisms. Interrelationships of structure, function, energy and metabolism are explored. Laboratory will emphasize basic techniques of cell biology. Prerequisites: BIOL 2416 and CHEM 3411. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3413 - Invertebrate Zoology

4 sem. hrs. (3:3)
Structure, life history, and evolution of the invertebrates with special emphasis on the phylogeny and ecological relationships of the major phyla. Laboratory will involve field trips and survey collections. Prerequisite: BIOL 1407. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3414 - Vertebrate Zoology

4 sem. hrs. (3:3)
Structure, life history, and evolution of the invertebrates with special emphasis on the phylogeny and ecological relationships of the major phyla. Laboratory will involve field trips and survey collections. Prerequisite: BIOL 1407. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this

course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3425 - Functional Anatomy

4 sem. hrs. (3:3)
General trends in morphological development and adaptation as demonstrated by the anatomy and embryology of living and extinct chordates. Students may not receive credit for both this course and either BIOL 2401 - Anatomy and Physiology I or BIOL 2402 - Anatomy and Physiology II . Prerequisite: BIOL 1407. BIOL 1407. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3428 - Principles of Ecology

4 sem. hrs. (3:3)
Introduction to the interrelationships of organisms and their environment. Population structure, community classification and regulation, and energy flow in ecosystems will also be covered. Laboratory sections will focus on experimental design and field techniques in ecology. Prerequisites: BIOL 1407, BIOL 2200-Professional Skills or UCCP 1101 & 1102-First Year Seminar I & II; Chemistry 1411-General Chemistry 1, Math 2413-Calculus (Math 2413 may be taken as co-requisite). SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3430 - Physiology

4 sem. hrs. (3:3)

The study of physiological processes that are the product of complex interactions between tissues, organs and organ systems, with emphasis on the circulatory, respiratory, endocrine, muscular, digestive, and urogenital systems. Particular focus on homeostasis, and the role of the environment and evolution on organ systems. Students may not receive credit for both this course and either BIOL 2401 or BIOL 2402. Prerequisite: BIOL 1407.

SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3455 - Plant form and Function

4 sem. hrs. (3:2)
Anatomy of vegetative and reproductive organs of plants, unique cellular features, development and differentiation of cell and tissue types. Emphasis on physiological mechanisms. Prerequisite: BIOL 1407 or consent of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3471 - Padre Island Ecology

4 sem. hrs. (3:2)
The interrelationships of plants and animals with their environment on Padre Island, the Laguna Madre, and the Gulf of Mexico. This course is for non-science majors only and cannot be applied towards a science degree. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3472 - Marine Biology

4 sem. hrs. (3:2)
Introduction to the biology and ecology of the common organisms inhabiting beaches, bays and oceans, particularly the Gulf of Mexico. Selected field trips to local marine environments and research facilities. Laboratory exercises are included. This course is for non-science majors and cannot be applied towards a science degree. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 3479 - Plant Ecology

4 sem. hrs. (3:3)
Structure, physiology, life cycles, and economic impact of plants. Factors influencing diversity, succession and ecological distribution of plants. Prerequisite: BIOL 1407. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4085 - Major Field Test in Biology

0 sem. hrs. (0:0)
The Major Field Test (MFT) in Biology is a national examination given in the Fall and Spring semesters only. It is a graduation requirement for all Biology and some Biomedical Sciences students. Students enroll in this course during the semester that they plan to take the MFT. There is no cost to the student for either this course or for the MFT. Admission is limited to students who have completed 90 or more semester credit hours. Graded: CR/NC

BIOL 4100 - Research Ethics and Professionalism

1 sem. hrs. (1:0)
A course designed to enhance the professionalism of undergraduate researchers. This course discusses the codified aspects of research ethics, including fabrication, falsification and plagiarism of data; assigning authorship, submitting manuscripts to more than one journal and management of lab teams. It also addresses careers in science, resume writing, producing the successful application and interviewing skills. Permission of instructor required.

BIOL 4292 - Senior Presentation

2 sem. hrs. (2:0)
Application of scientific literature research skills including a review of library services pertinent to science. Student oral seminar presentation in a science-oriented format and with visual aid support on an approved biological topic. Students enrolled in this course must take a Major Field Test in Biology. Prerequisite: BIOL 2200 or BIMS 2200 Senior standing or consent of instructor.

BIOL 4299 - Directed Independent Research

1-2 sem. hrs. (0:1-2)
Independent laboratory- or field-based research project on topic of current interest. Project developed and funded in conjunction with a faculty advisor. Written report required. Prerequisites: Junior class standing, BIOL 1407 and CHEM 1312/1112 and consent of instructor. May be repeated for a maximum of 4 semester hours. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4301 - Embryology

3 sem. hrs. (3:0)
Studies the events that occur just prior to and during gestation. Includes gametogenesis, chromosomal and single gene aberrations, teratology, and the development of the body systems. Prerequisite: BIOL 2416.

BIOL 4302 - Coral Reef Conservation

3 sem. hrs. 3:0
Survey of challenges and threats facing coral reef ecosystems in the 21st century and discussion of conservation and management strategies. Topics include biology and ecology of reef ecosystems, climate change impacts, coaral bleaching, over-fishing and the effectivness and design of marine protected areas. BIOL 3428 Principles of Ecology cross-listed wtih BIOL 6301

BIOL 4304 - Biology of Viruses

3 sem. hrs. (3:0)
Introduction to the study of viruses, including viral life cycles, replication schemes and Baltimore classification of representative bacteriophages, plant and animal viruses. Emphasis on analysis and review of primary literature on viruses. Prerequisites: BIOL 2416, BIOL 2421 and CHEM 1311/1111.

BIOL 4311 - Biological Bases of Behavior

3 sem. hrs. (3:0)
This lecture-based course examines the processes by which neuronal circuits generate behaviors and the mechanisms by which experience modulates the activity of these circuits. Prerequisite: BIMS 4323 - Neurobiology or permission of the instructor.

BIOL 4319 - Marine Mammals

3 sem. hrs. (3:0)
A taxonomic overview of the marine mammal group including representative life histories of selected species, their distribution and behavior, and the management/conservation and stranding network efforts. Prerequisite: BIOL 1407 or consent of instructor.

BIOL 4323 - Global Change Ecology

3 sem. hrs. 3:0
An introduction to the effects of climatic and anthropogenic change on terrestrial and aquatic structure and function. Includes readings from the current literature and discussion of controversial articles. Prerequisite: BIOL 3428

BIOL 4326 - Toxic and therapeutic Plants

3 sem. hrs. (3:0)
Anatomy and physiology of green plants toxic to humans and plants used in treating specific medical conditions. Prerequisite: BIOL 1407

BIOL 4340 - Genomics, Proteomics and Bioinformatics

3 sem. hrs. (3:0)
An introduction to integrative biological study using genome-wide approaches and bioinformatics. The “-omics” technologies (Genomics, Proteomics, Metabolomics, etc.) will be surveyed for current and potential contributions to understanding biological function at molecular, cellular, organismal and ecosystem levels. Prerequisites: BIOL 2416 and either BIOL 3410 or CHEM 4401.

BIOL 4350 - Research and Design

3 sem. hrs. (3:0)
Course will include experimental design, literature review of a research topic and laboratory work on the research topic. Prerequisite: consent of instructor

BIOL 4370 - Mariculture

3 sem. hrs. (3:0)
Survey of the physiological, behavioral, environmental, and economic parameters governing the culture of selected aquatic species. Included are techniques employed worldwide to produce aquatic products. Prerequisite: BIOL 1407 or consent of instructor.

BIOL 4371 - Population Genetics

3 sem. hrs. (3:0)
An introduction to evolutionary processes and their genetic basis, this course focuses on theoretical and experimental approaches to the study of population genetics, quantitative genetics, evolutionary ecology, and molecular evolution. Prerequisites: BIOL 2416 and either MATH 1442 or MATH 2342 or MATH 1470 or MATH 2413 or permission of instructor.

BIOL 4396 - Directed Independent Study

1-3 sem. hrs. (1-3:0)
Research in areas of current interest. Written report required. Prerequisites: BIOL 1407 and CHEM 1312/1112 and consent of instructor. May be repeated for a maximum of 6 semester hours.

BIOL 4405 - Limnology

4 sem. hrs. (3:3)
The study of the functional relationships and productivity of aquatic communities as they are affected by their physical, chemical, and biotic environment. The influence of man's activities on these systems will be the focus of the course. Prerequisite: BIOL 3428 or consent of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4406 - Immunology

4 sem. hrs. (3:3)
An overview of immunology with emphasis on current knowledge of the immune system. Detailed examination of the specific cells, cytokines, antibodies, and molecules that comprise the immune system. Laboratory exercises demonstrate the basic principles and techniques used in immunologic studies. Prerequisite: BIOL 2421 (BIOL 3410 or 3345 recommended). SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4407 - Biology of the Fungi

4 sem. hrs. (3:3)
Overview of the fungi, including their characteristics, diversity, and ecology. Interactions between fungi and other organisms are explored along with the role and importance of the fungi. Prerequisite: BIOL 2421. SMTE 0092 Biomedical Laboratory Safety

Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4408 - Microbial Diversity and Ecology

4 sem. hrs. (3:3)
Biodiversity and roles of microorganisms in natural environments. Interactions with other micro- and macro-organisms (humans, animals and plants) and with abiotic factors. Unique abilities of microorganisms such as nitrogen fixation and adaptation to extreme environments. Prerequisite: BIOL 2421 or consent of instructor. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4409 - Field and Sampling Techniques

4 sem. hrs. (3:3)
The study of techniques required for proper field work in the biological sciences. The course includes ecological sampling methods, safety, logistics, equipment operation and maintenance and travel concerns. Prerequisite: consent of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4410 - Mammalogy

4 sem. hrs. (3:3)
Systematics and ecology of mammals. Prerequisite: BIOL 3414 - Vertebrate Zoology or consent of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4411 - Animal Behavior

4 sem. hrs. (3:2)
An understanding of why animals behave in the manner they do, through examination of both invertebrate and vertebrate species. Prerequisite: BIOL 1407. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4413 - Entomology

4 sem. hrs. (3:3)
A broad overview of the natural history, classification, phylogeny, ecology, behavior, development and physiology of insects and their kin. The lab will involve field work, collection and curation. Prerequisite: BIOL 3413 or consent of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4422 - Plant Taxonomy

4 sem. hrs. (3:3)
Principles and practice in the classification of flowering plants. Field trips are required. Prerequisite: BIOL 1407. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4425 - Ornithology

4 sem. hrs. (3:3)
Systematics, anatomy, physiology, ecology, behavior, and field identification of birds. Prerequisite: BIOL 3414 or consent of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4428 - Fisheries

4 sem. hrs. (3:3)
A study of theory and techniques in fisheries science, including behavior of fisheries populations and application to resource management with emphasis in tide-influenced waters. Includes readings in the current literature and a research project. The lab will emphasize practical fisheries sampling designs and techniques. Prerequisite: BIOL 1407. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4429 - Marine Botany

4 sem. hrs. (3:3)
The ecology of marine plants with emphasis on identification, life histories, and environmental factors of distribution. Prerequisite: BIOL 1407. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4432 - Ichthyology

4 sem. hrs. (3:3)
Systematics, evolution, biology, and ecology of fishes. Laboratory identification of marine and freshwater fishes collected during field excursions. Prerequisite: BIOL 3414 or consent of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4433 - Parasitology

4 sem. hrs. (3:3)
An introduction to parasitology with emphasis on internal parasites and appropriate references to human endoparasites and parasites of veterinary importance. Prerequisite: BIOL 2421 or consent of instructor. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4435 - Biological Microtechniques

4 sem. hrs. (2:4)
Theory and techniques of processing specimens for histochemistry and microscopic examination. Laboratory includes preparation of tissues and small specimens for analysis and display. Prerequisites: BIOL 1407 and CHEM 3411. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4436 - Marine Ecology

4 sem. hrs. (3:3)
Habitats and community structure in marine environments; biotic and abiotic factors governing the distribution of marine organisms. Prerequisite: BIOL 3428. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4442 - Herpetology

4 sem. hrs. (3:3)
Systematics, ecology, and behavior of amphibians and reptiles. Prerequisite: BIOL 3414 or consent of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4444 - Estuarine Organisms

4 sem. hrs. (3:3)
Systematics, distribution, and ecology of estuarine macrofauna and macroflora. Weekend field trips and individual study required. Prerequisite: BIOL 3413. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

BIOL 4446 - Tropical Ecosystems & Conservation

4 sem. hrs. 3:3
Survey of the ecology and conservation issues of the major ecosystems in the tropics and field techniques used to study tropical forest ecology. Prerequisite: Principles of Ecology (BIOL 3428) or permission of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course.

BIOL 4590 - Selected Topics

1-5 sem. hrs. (1:0-3:4)
Variable content. May be repeated for credit. Prerequisite: Consent of the instructor. Offered on sufficient demand. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. When laboratory hours are included, safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

Business Law

BLAW 3310 - Legal Environment of Business

3 sem. hrs.
An introduction to the legal systems of government, business and society. Includes coverage of ethics, the judicial process, basics of contracts law, constitutional issues, business torts and crimes, creditor/debtor relationships, business organizations, international law, environmental law, and various aspects of regulation of business. Prerequisite: BUSI 0011.

BLAW 3320 - Law for Personal Business

3 sem. hrs.
A study of the laws that influence each individual in the conduct of personal life and business affairs. Includes such topics as the court and legal system, family law, torts, property law, insurance, wills and trusts, contracts, and other areas of current interest. Prerequisite: Junior standing or above.

BLAW 4342 - Law for Professional Certification

3 sem. hrs.
Designed as a second course in business law for students who desire a more in-depth knowledge. Individuals planning to take professional certification exams that contain a business law component are encouraged to enroll in this course. Prerequisites: BLAW 3310 (or permission of instructor) and Junior standing or above.

BLAW 4350 - Human Resource Law

3 sem. hrs.
A study of the laws relating to human resource management in today's business environment. Covers discrimination, labor law, retirement regulations, safety issues and employee/management topics. Emphasis on current issues, cases and legislation. May be used as a management major elective or business elective. Prerequisite: Junior standing or above.

BLAW 4390 - Current Topics in Business Law

1-3 sem. hrs.
Selected topics for special study related to laws impacting business, organizations and human resources. May be repeated for credit when topics vary. Prerequisites: Junior standing or above, and others depending on topic. Contact the Dean's office for information.

BLAW 4396 - Directed Individual Study

1-3 sem. hrs.
Individual supervised study and a final report. Prerequisites: permission of instructor, Junior standing or above, and others depending on selected topic. Inquire at the Dean's office for information.

Business Administration

BUSI 0011 - Cob Student Code of Ethics and Plagiarism

0 sem. hrs.
The emphasis of this non-credit, web-based course is educational. It covers the provisions in the COB Student Code of Ethics and covers information related to the issue of plagiarism. It prepares business majors to successfully complete an online test to meet a requirement for graduation. Prerequisites: students must have officially declared a major offered by the College of Business. Graded CR/NC.

BUSI 0088 - Major Field Test Review

0 sem. hrs.
This non-credit, web-based course assists students in their preparation for the Major Field Test (MFT) and includes modules and review questions in the eight content areas of the MFT: accounting, economics, finance, management, quantitative analysis and information systems, marketing, and the legal/social environment of business. International business issues are included across the seven modules listed above. Prerequisites: All business core courses except MGMT 4388. Concurrent enrollment in MGMT 4388 is required.

BUSI 1310 - Introduction to the Business Environment

3 sem. hrs. TCCNS Equivalent: BUSI 1301

An overview of the nature of business and its environment. Emphasizes the dynamic role of business in everyday life and its importance to society.
Not open to Juniors or Seniors majoring in business.

BUSI 3315 - Entrepreneurship, Creativity, & Innovation

3 sem. hrs. 3:0
This is an initial course in entrepreneurship. The student will learn the description and analysis of the characteristics that produce creative opportunities and commercially sustainable innovations. This will include learning about the personal and organizational characteristics, business and societal planning tools, and practices of entrepreneurs. Factors inside and outside the entrepreneurial firm that influence creativity and innovation are also considered as they affect successful business decisions. Prerequisite: Sophomore standing or above

BUSI 4310 - International Business

3 sem. hrs.
An understanding of international business including its importance in today's world, the evolution of international institutions and the monetary system, the differences and similarities among nations and cultures, and the special characteristics of the business functions in a global setting. Prerequisite: Junior standing or above.

BUSI 4320 - New Venture Creation

3 sem. hrs.
New venture creation teaches students how to analyze the feasibility of a new product, service or innovation within the entrepreneurial organization. Students learn to develop business plans necessary for the creation of start-up enterprise to include specific business practices, finances, and obligations of the firms created and maintained by entrepreneurs. Factors inside and outside the entrepreneurial enterprise are researched and analyzed as they affect successful new venture business decisions. Prerequisites: BUSI 3315 or MGMT 3312, Junior standing or above and/or permission of the instructor for non-business majors.

BUSI 4390 - Current Topics in Entrepreneurship

1-3 sem. hrs.
Selected topics for special study related to entrepreneurship. May be repeated for credit when topics vary. Junior standing or above, and others depending on topic. Contact the Dean's office for information.

BUSI 4396 - Directed Individual Study

3 sem. hrs.
Individual supervised study and a final report. Prerequisites: permission of instructor, Junior standing or above, and others depending on selected topic. Inquire at the Dean's office for information.

Chemistry

CHEM 1305 - Introductory Chemistry

3 sem. hrs. (3:0) TCCNS Equivalent: CHEM 1305
A one-semester principles course for students in non-science related majors covering the major concepts of chemistry (atomic structure, bonding, stoichiometry, elementary thermodynamics) and the role of chemistry in contemporary society (polymers, energy, pollution, etc.). Will not substitute for CHEM 1311. This course counts toward the natural science component of the University Core Curriculum. Either CHEM 1305 or CHEM 1311, but not both, may be applied towards the core requirement Students desiring a laboratory experience may co-register for CHEM 1111

CHEM 1411 - General Chemistry I

4 sem. hrs. (3:3) TCCNS Equivalent: CHEM 1411
The foundation course in chemistry. Stoichiometry, chemical equilibria, atomic structure, chemical bonding, periodic properties, thermodynamics, chemical kinetics, and descriptive chemistry of the elements. Laboratory involves development of basic skills. This course counts toward the natural science component of the University Core Curriculum. Either CHEM 1305 - Introductory Chemistry or CHEM 1411, but not both, may be applied towards the core requirement. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course.

CHEM 1412 - General Chemistry II

4 sem. hrs. (3:3) TCCNS Equivalent: CHEM 1412
The continuation of CHEM 1411 - General Chemistry I, the foundation course in chemistry with emphasis on quantitative aspects. Laboratory involves development of basic skills. This course counts toward the natural science component of the University Core Curriculum. Prerequisite: CHEM 1411 - General Chemistry I and MATH 1314 - College Algebra or equivalent math competency. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course.

CHEM 2490 - Special Topics

1-4 sem. hrs.
May be repeated for credit. Subject materials variable. Offered on sufficient demand.

CHEM 3411 - Organic Chemistry I

4 sem. hrs. (3:3)
The structure, nomenclature, synthesis, reactions, and reaction mechanisms of the principal classes of organic compounds. Stereochemistry and spectroscopy of organic compounds. Laboratory involves separation and synthetic techniques and development of basic skills. Prerequisite: CHEM 1411. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 3412 - Organic Chemistry II

4 sem. hrs. (3:3)
A continuation of CHEM 3411. The course concludes with a survey of the structures of biomolecules. Laboratory involves spectroscopy and qualitative analysis techniques. Prerequisite: CHEM 3411. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 3417 - Quantitative Analysis

4 sem. hrs. (3:3)
A course in quantitative analysis, which includes chemical statistics and the use of acid-base, complexation, precipitation, and redox reactions to perform analyses and separations. Laboratory includes standard volumetric and gravimetric methods and development of basic quantitative techniques Prerequisite: CHEM 1412. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 3418 - Instrumental Analysis

4 sem. hrs. (3:3)
An introduction to instrumental methods of analysis: spectroscopy, chromatography, and electrochemical methods. Laboratory involves use of instrumentation in chemical analysis. Prerequisite: CHEM 1412. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 4085 - Major Field Test in Chemistry

0 sem. hrs. (0:0)
The Major Field Test (MFT) in Chemistry is a national examination given in the Fall and Spring semesters only. It is a graduation requirement for all Chemistry students. Students enroll in this course during the semester that they plan to take the MFT. There is no cost to the student for either this course or for the MFT. Admission is limited to students who have completed 90 or more semester credit hours Graded: CR/NC.

CHEM 4292 - Senior Chemistry Seminar

2 sem. hrs. (2:0)
Presentation and discussion of selected topics in chemistry. Includes literature searches and reviews, paper presentations, survey of professional opportunities and requirements, career guidance and job searching skills. Prerequisite: senior standing or consent of instructor.

CHEM 4320 - Drugs, Toxins and Natural Products Chemistry

3 sem. hrs. (3:0)
The chemistry and biological activity of pharmaceuticals, toxins and selected natural products. Examines how chemical structure relates to biological activity. Also examines action of antibiotics, chemotherapy agents, analgesics, steroids, and compounds targeting the central and peripheral nervous system. Prerequisite: CHEM 4401.

CHEM 4344 - Chemical Oceanography

3 sem. hrs. (3:0)
The study of the oceans and seas as a chemical system, including interactions with both the biota and the solid earth. Prerequisite: CHEM 1412.

CHEM 4350 - Polymer Chemistry

3 sem. hrs. (3:0)
An advanced lecture course in organic chemistry. Characterization of polymers. Polymerization mechanisms. Current research directions such as biomedical applications and electroactive polymers. Prerequisite: CHEM 3412.

CHEM 4401 - Biochemistry I

4 sem. hrs. (3:3)
The structure and function of carbohydrates, lipids, proteins, and nucleic acids. An introduction to enzyme kinetics, cell membrane structure and biochemical signaling. Laboratory exercises demonstrate the basic principles and techniques used in Biochemistry. Prerequisites: CHEM 3412 and one year of Biology. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 4402 - Biochemistry II

4 sem. hrs. (3:3)
A continuation of CHEM 4401. Biochemical energetics, including glycolysis, fatty acid oxidation, amino acid oxidation, citric acid cycle, oxidative phosphorylation, photophosphorylation and photosynthesis. Carbohydrate, fatty acid and amino acid biosynthesis. Laboratory is a continuation of biochemical techniques. Prerequisite: CHEM 4401. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 4407 - Advanced Inorganic Chemistry

4 sem. hrs. (3:3)
A survey of inorganic chemistry. Theories of atomic structure, covalent bonding, ionic solids, metallic solids, and coordination compounds. Modern acid-base concepts. Laboratory involves the synthesis of inorganic compounds. Prerequisite: CHEM 3412; Physical Chemistry is recommended. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 4409 - Advanced Instrumental Analysis

4 sem. hrs. (3:3)
An advanced course in analytical chemistry covering the underlying theories of instrumental methods. Laboratory emphasizing the proper utilization of instruments in analysis and separation of chemical species. Prerequisites: CHEM 3411, CHEM 3412, and CHEM 3418. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 4420 - Physical Biochemistry

4 sem. hrs. (3:3)
A fundamental approach to the study of physical and chemical phenomena, including the study of thermodynamics, gases and phase equilibria. Prerequisites: CHEM 1412, PHYS 1402 or PHYS 2426, MATH 2414. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 4423 - Physical Chemistry I

4 sem. hrs. (3:3)

A fundamental approach to the study of physical and chemical phenomena, including the study of thermodynamics, gases and phase equilibria. Prerequisites: CHEM 1412, PHYS 1402 or PHYS 2426, MATH 2414. SMTE 0093 is a co-requisite for this

course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 4424 - Physical Chemistry II

4 sem. hrs. (3:3)
A continuation of CHEM 4423, including the study of chemical kinetics, electrochemistry, molecular structure, and quantum mechanics. Prerequisite: CHEM 4423. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 4443 - Environmental Chemistry

4 sem. hrs. (3:3)
A study of the impact of chemistry on the environment, including topics of air pollution, water pollution, and beneficial chemical modifications of the environment. Laboratory devoted to field techniques of sampling, sample preservation, and analytical techniques applied to the environment. Prerequisite: CHEM 1412, CHEM 3411. SMTE 0093 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

CHEM 4490 - Special Topics

1-4 sem. hrs.
May be repeated for credit. Subject materials variable. Offered on sufficient demand.

CHEM 4696 - Directed Independent Study

1-6 sem. hrs.
Requires a formal proposal of study to be completed in advance of registration, to be approved by the supervising faculty, the chairperson and the dean of the College.

Communication

COMM 1305 - Film and Culture

3 sem. hrs.
Introduction to film aesthetics, history, and criticism for non-communication majors. Establishes a vocabulary for examining films and their roles in American culture. Satisfies the university core curriculum requirement in fine arts.

COMM 1307 - Media and Society

3 sem. hrs. TCCNS Equivalent: COMM 1307)
History and development of mass media in the United States as well as the organizational, institutional, and cultural dynamics of today's major commercial media. Included are substantial components on print media, radio, television, cinema, and computer Internet communication systems. Course themes include media production and consumption, globalization, cultural imperialism, race, class, gender in media and popular culture.

COMM 1315 - Public Speaking

3 sem. hrs. TCCNS Equivalent: SPCH 1315
Research, composition, organization, and delivery of speeches for various purposes and occasions, with emphasis on listener analysis and on informative and persuasive techniques. Satisfies the university core curriculum requirement in oral communication.

COMM 1318 - Interpersonal Communication

3 sem. hrs. TCCNS Equivalent: SPCH 1318
Predominant issues related to verbal and nonverbal communication with a focus on interpersonal relationships.

COMM 1342 - Voice and Diction

3 sem. hrs. TCCNS Equivalent: SPCH 1342
Basic voice training, including techniques for vocal production, manipulation, and control. Practical application of the vocal apparatus will be emphasized, including techniques of enunciation, projection, articulation, and the use of dialects. (Credit may not be given for both this course and THEA 1342.)

COMM 1370 - Introduction to Communication

3 sem. hrs.
Overview of historical and contemporary trends in communication studies.

COMM 2333 - Small Group Communication

3 sem. hrs. TCCNS Equivalent: SPCH 2333
Application of small group theories and techniques as they relate to group process and interaction.

COMM 2350 - Media Writing and Performance

3 sem. hrs.
This course is designed to teach students articulation, pronunciation, effective writing and on-air performance techniques for all kinds of media environments with videotaped and audio taped presentations.

COMM 2366 - Media Forms

3 sem. hrs. TCCNS Equivalent: DRAM 2366
Examination of the formal elements of media texts, including cinematography/videography, sound, and editing, across a variety of media platforms and styles. Includes instruction in writing formal analysis.

COMM 2367 - Media Industries

3 sem. hrs.

Examination of the media industries, including how they have evolved and now operate, as well as broader theoretical and practical implications of changing media organizations and practices. Includes instruction in researching contemporary and historical modes of media production, distribution, and exhibition.

COMM 3301 - Television Criticism

3 sem. hrs.
Exploration of how TV communicates through the study of programming content, production practices, and audiences. Includes a laboratory for screening assigned programs. Prerequisite: COMM 1307

COMM 3302 - Film Criticism

3 sem. hrs.
Exploration of the critical approaches to the study of film from a variety of historical and theoretical perspectives, with an emphasis on narrative film and some consideration of experimental cinema. Includes a laboratory for screening assigned films. Prerequisite: COMM 1307.

COMM 3303 - Documentary Studies

3 sem. hrs.

Historical and critical study of the non-fictional film with attention to changing technologies, to varying uses and styles of documentary, and to contemporary critical and theoretical issues. COMM 1307

COMM 3310 - Communication Theory

3 sem. hrs.
The foundations, processes, and effects of human communication. A survey of contemporary theory and research, including language theory, nonverbal and small group communication, persuasion, and mass communication. Prerequisite: COMM 1307 and 1370.

COMM 3311 - Nonverbal Communication

3 sem. hrs.
The study of body movement, touch, paralanguage, space, environment, and other nonverbal factors in the communication process.

COMM 3312 - Newswriting for Television, Radio, and the Internet

3 sem. hrs.
News collecting, interviewing, writing, and editing, for television, radio, and the Internet.

COMM 3313 - Production I

3 sem. hrs.

Basic principles and techniques of media production with a focus on moving image and sound acquisition. This course is a foundational counterpart to COMM 3315, Editing I.

COMM 3314 - Television Production

3 sem. hrs.
Fundamentals of studio television production. Field-based course, transportation required.

COMM 3315 - Editing I

3 sem. hrs.

Intensive instruction in postproduction software, postproduction workflows, and editing techniques for moving images. This course is a foundational counterpart to COMM 3313, Production I.

COMM 3316 - Production II

3 sem. hrs.
Advanced techniques in lighting, cinematography and recording. Prerequisite: COMM 3313

COMM 3320 - Business and Professional Communication

3 sem. hrs. lecture
Introduces students to basic skills, principles, and contexts of communication in business and professional settings by combining public speaking with aspects of communication ethics and organizational, small group, and interpersonal communication. Students will learn practical skills via presentations, research, resumes, interviews, meetings, and professional writing grounded in communication theory.

COMM 3325 - Relational Communication

3 sem. hrs. Lecture
This course is an advanced interpersonal communication course that focuses on communication within relationships, such as family, romantic, friendship, and workplace relationships. Prerequisite: COMM 1318

COMM 3330 - Persuasion

3 sem. hrs.
Various theories and forms of rhetorical persuasion. Topics include practical reasoning skills, psychological theories of persuasion, and critical responses to persuasive messages.

COMM 3335 - UIL Debate and Speech

3 sem. hrs.
Understanding the University Interscholastic League debate and speech events. Students explore approaches to analytical reasoning, research delivery, and the conceptual basis for debate and gain practical experience in understanding and judging UIL in the high school setting.

COMM 3341 - Public Relations Cases and Strategies

3 sem. hrs.
A study of the key issues in the practices of public relations as a form of corporate discourse; exploration of nature, history, and present status of public relations. Prerequisite for COMM 4331.

COMM 3351 - Screen Comedy

3 sem. hrs.
Examination of the varieties of screen comedy, from silent comedy to contemporary forms, with some attention to the history and theory of comic performance. Prerequisite: COMM 1307.

COMM 3360 - Screenplay Writing

3 sem. hrs.
Writing and analysis of the screenplay for narrative fictional films. Writing projects include problem-solving exercises and work on an original screenplay.

COMM 3380 - New Media and Communication

3 sem. hrs.
Examines how new media technologies impact society and change communication practices. Particular emphasis placed on different modes of cultural expression and social interaction made possible through digital media and the Internet.

COMM 4310 - Advanced Production: Documentary

3 sem. hrs.
Advanced techniques in the creation of documentary media content with a focus on conceptualization, production, and distribution of a short documentary film. This course serves as a capstone for the Media Production Track.
Prerequisites: COMM 3313, COMM 3315, and COMM 3316.

COMM 4312 - Advanced Production: Narrative

3 sem. hrs.
Advanced techniques in the creation of narrative media content with a focus on scripting, production, and distribution of a short narrative film. This course serves as a capstone for the Media Production Track. Prerequisites: COMM 3313, COMM 3315, and COMM 3316.

COMM 4314 - Gender Communication

3 sem. hrs.
Examination of communication about women and men, as well as communication between them. Special course emphasis on

explanations of gender, sexist language, media depiction of the sexes, and gender communication in the formation of social and work relationships. Prerequisite: COMM 1370.

COMM 4331 - Public Relations Techniques

3 sem. hrs.
A study of the practices and problems of public relations with an emphasis on understanding the development of the field and the applications of communication skills necessary for being a successful public relations professional. Prerequisite: COMM 3341.

COMM 4335 - Crisis Communication

3 sem. hrs. lecture

A case-study approach to the study of crisis communication theory and application, whereby students are exposed to the best and worst practices of crisis communication via an analysis of recent, recognizable crises. Students learn to distinguish the various types of crises and implement effective strategies for preventing, managing, and evaluating crisis situations.

COMM 4340 - Advertising Criticism

3 sem. hrs.
The examination of advertising history through critical and cultural approaches. Prerequisite: COMM 1307.

COMM 4342 - Global Media and International Communication

3 sem. hrs.
Examines global media in the context of international communication, diversity of media and cultural production, styles of media practices abroad, including differences between U.S. news values and ethical and moral dimensions across differing societies of the world.

COMM 4345 - Intercultural Communication

3 sem. hrs.
An investigation of the process by which persons and groups of different cultural backgrounds create understanding. Types of knowledge, skills, and sensitivity necessary for intercultural communication are developed. Prerequisite: COMM 1370.

COMM 4350 - Communication in Organizations

3 sem. hrs.
Examination and exploration of realistic applications of communication theories within the framework of an organization. Particular attention will be given to techniques for diagnosing communication problems, as well as strategies for effecting change in communication. Prerequisite: COMM 1370.

COMM 4370 - Advanced New Media Project

3 sem. hrs. lecture
As the capstone course for the New Media Arts Certificate, this course guides students through the planning, development, and execution of new media-based project. Prerequisite: COMM 3312, 3313, 3315; ARTS 2356, 3360, 3362

COMM 4371 - Acting for the Camera

3 sem. hrs.
Emphasizes the practice of various acting styles for television, video, and film. The student will receive practical experience in commercial styles, public service announcements, television and video style acting, and film scene study. (Credit may not be given for both this course and THEA 4371.)

COMM 4380 - Senior Seminar in Communication Studies

3 sem. hrs.
This course serves as the capstone for the Communication Studies track. It offers students opportunities to synthesize information learned in other Communication courses and demonstrate abilities to think critically, conduct independent research linked to appropriate communication theories, create individual and collaborative projects that demonstrate effective use of communication strategies, and present written and oral work at an advanced level. Prerequisite: COMM 1307, 1370, 3310, and Senior rank.

COMM 4381 - Senior Seminar in Media Studies

3 sem. hrs. lecture
The capstone course for Communication majors in the Media Studies track offers students opportunities to synthesize information learned in other Media Studies courses through in-depth study of a particular topic. Students will demonstrate their abilities to think and write critically, and to conduct independent research or produce media projects at an advanced level. Topics vary by instructor. Prerequisite: COMM 1307, 1370, 3310, and Senior rank.

COMM 4390 - Topics in Communication

3 sem. hrs.
Study of specialized topics and themes in communication studies and media studies. May be repeated when topics vary.

COMM 4395 - First Amendment and Ethical Issues in the Media

3 sem. hrs.
Study of legal and ethical issues in mediated communication, including the First Amendment and free speech, control, and regulation of broadcasting, obscenity in the media. Prerequisite: COMM 1307. Non-majors may be admitted with permission by the instructor.

COMM 4396 - Directed Individual Study

3 sem. hrs.
See College description. By application. Only 3 semester hours of Directed Individual Study credit may be counted toward the major. Prerequisite: Approval of Instructor.

COMM 4398 - Applied Experience

3 sem. hrs.
See College description. By application. Only 3 semester hours of Internship or Applied Experience credit may be counted toward the major. Prerequisite: Approval of Instructor.

COMM 4399 - Communication Internship

3 sem. hrs.
Practical experience in the field through placement in a communication or media internship position. By application. May be taken 3 times for credit; however, only 3 semester hours of Internship or Applied Experience credit may be counted toward the major. Prerequisite: Approval of Instructor.

Computer Science

COSC 1315 - Computer Literacy

3 sem. hrs. (3:0) TCCNS Equivalent: COSC 1300
A balanced introduction to the use and application of computers in modern society involving both descriptive information and hands-on laboratory participation. Includes a discussion of the general principles of operation of a computer and a brief history of the development of computing. The use of a personal computer operating system, common application software, and simple computer programming concepts are introduced. Satisfies university computer literacy requirement.

COSC 1325 - Introduction to Computer Science Principles

3 sem. hrs. (3:0)
Introduction to problem analysis, design of solutions, and graphical applications creation using a 3-D interactive environment. Emphasis is placed on problem solving skills and basic concepts of computer programming. This course is intended for those students with little or no background in computer programming. This course satisfies the University's computer literacy requirement. Prerequisites: None.

COSC 1330 - Programming for Scientists, Engineers, and Mathematicians

3 sem. hrs. 3:0 TCCNS Equivalent: COSC 1330
Introduction to computer programming for solving discipline specific problems using computers. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files. MATH 1314 or placement beyond MATH 1314.

COSC 1435 - Introduction to Problem Solving with Computers I

4 sem. hrs. (3:2) TCCNS Equivalent: COSC 1436
A broad introduction to many Computer Science topics including: algorithms, problem solving, operating system concepts, computer architecture, and programming languages. Prerequisite: MATH 1314 or placement beyond MATH 1314.

COSC 1436 - Introduction to Problem Solving with Computers II

4 sem. hrs. (3:2) TCCNS Equivalent: COSC 1437
This course is a continuation of COSC 1435, completing the syntax of the language used as the programming tool in COSC 1435 and providing an introduction to basic data structures. It includes the intermediate study of the basic concepts of problem solving. Topics covered include basic one- and two-dimensional array handling, recursion, basic searching and sorting algorithms, abstract data types, and dynamic data structures. Prerequisite: COSC 1435.

COSC 2190 - Introduction to Research

1 sem. hrs. (2:0)
This course introduces students to the fundamentals of research. Basic research methodologies are introduced. Students will research and study contemporary issues in computer science and present their work in oral and written formats. Class meets two hours per week. Prerequisite: COSC 1435. Spring.

COSC 2325 - Game Design

3 sem. hrs. (2:2)
This course will teach students the techniques for computer game design and how to work as part of a game development team from initial conception through release, including the game design process, game concepts, how and why we play games, character development, storytelling, user experience, game play, and core mechanics of games. Prerequisite: None.

COSC 2334 - Computer Architecture

3 sem. hrs. (3:0)
A concentrated study of internal computer concepts. Computer organization, machine and assembly language are emphasized. Prerequisites: COSC 1435 and MATH 2305.

COSC 2365 - System Administration I

3 sem. hrs. (3:0)
This course focuses on providing students with essential knowledge and skills to implement, administer, and troubleshoot servers in a networked environment. Operating system concepts, such as installing a standalone system, file systems authentication, and user support services are explored. Topics will include security issues, user and group administration, active directory services, DHCP, DNS, SSH, backup and restoration strategies and techniques, integrated mass storage technologies and alternative client technologies. Co-requisite: COSC 1435.

COSC 2366 - Network Administration I

3 sem. hrs. (3:0)
This course focuses on the standards and technologies used to establish inter-network structures that will support a TCP/IP data stream for higher-level services to operate over. This course introduces local area networks (LAN) and wide area networks (WAN). Topics include the TCP/IP and open system interconnection (OSI) models, cabling, switches, routers, protocols, subnetting, and networking hardware and software. Initial switch and router configuration will be examined and evaluated. Co-requisite: COSC 1435.

COSC 2390 - Selected Topics I

3 sem. hrs. (2:2)
Variable content. May be repeated for credit depending on topic. Offered on sufficient demand. Does not count toward total hours required for BS in Computer Science.

COSC 2391 - Selected Topics II

3 sem. hrs. (3:0)
This is a selected topics course with no lab component. Variable content. May be repeated for credit depending on topic. Offered on sufficient demand. Does not count toward total hours required for BS in Computer Science. Prerequisite: COSC 1315.

COSC 2437 - Data Structures

4 sem. hrs. (3:2) TCCNS Equivalent: COSC 2415
This course provides a thorough study of standard structures used in the storing and retrieving of data and the processes by which these structures are created and manipulated. Topics include: object oriented design, linked lists, classes, trees, graphs, hashing, stacks, queues, sorting, searching, and recursion. Prerequisites: COSC 1436. Co-requisite MATH 2305.

COSC 2470 - COBOL Programming

4 sem. hrs. (3:2)
A concentrated study of the COBOL language as applied to fundamental business computing problems and other data management applications Prerequisite: COSC 1435 Fall, Spring

COSC 3305 - Survey of Computer Security and Societal Issues

3 sem. hrs. (3:0)
Survey of contemporary computer security, information assurance and societal issues. Topics may include: protecting the individual and/or business from computer crimes, protecting against system failure, protecting the environment through green computing. The course is intended for all majors and is offered on a credit/no-credit basis. May not be used as a CS elective for CS majors. Prerequisite: None

COSC 3324 - Object-oriented Programming

3 sem. hrs. (3:0)
A study of concepts, terminology, and methodologies used in object-oriented systems, languages, and applications. Students will design and implement software systems using object-oriented analysis and design techniques. Prerequisite: COSC 2437 Fall, Spring

COSC 3325 - Game Programming

3 sem. hrs. (2:2)
This course will introduce the student to techniques and tools used for all aspects of programming games. Topics will include game graphics, game physics, game AI, and sound. The course will contain lectures and hands-on labs. Students will work independently and in teams. Prerequisite: COSC 2437

COSC 3336 - Introduction to Database Systems

3 sem. hrs. (3:0)
A study of contemporary database management system concepts, terminology, and methodology for use and implementation. Commercially available systems are discussed and used with emphasis upon the relational model. Prerequisite: COSC 2437 Fall, Spring

COSC 3342 - Network Design and Management

3 sem. hrs. (3:0)
A broad-based introduction to all major aspects involved in designing and managing computer networks. Both logical and physical networking technologies are covered including media options, physical topologies, network architectures and communication protocols. Spring

COSC 3346 - Operating Systems

3 sem. hrs. (3:0)
Introduction to operating systems concepts, principles, and design. Topics include: processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, security and protection, networking, and distributed systems. Selected existing operating systems are discussed, compared, and contrasted. Prerequisites: COSC 2437 and either COSC 2334 or ENTC 3418. Fall, Spring

COSC 3351 - Internet Programming

3 sem. hrs. (3:0)
Intensive study of how the World Wide Web is programmed with a focus on dynamic programming. An overview of the concepts of the human-computer interface, including interface design and evaluation, modes of interaction, understanding the behavior of the user, diversity in UI design, user mental models, and anthropomorphisms. Corequisite: COSC 3336

COSC 3352 - Mobile Programming

3 sem. hrs. 3:0
This course introduces software development for mobile platforms. Students will learn skills for creating and deploying mobile applications. Includes software engineering topics as related to mobile programming, primarily in how software design differs on mobile platforms. Prerequisite: COSC 2437 - Data Structures

COSC 3353 - Survey of Programming Languages

3 sem. hrs. (3:0)
A study of selected programming languages for students familiar with programming. Students will write programs in a variety of languages. Prerequisite: COSC 2437 Fall

COSC 3355 - Visual Programming Languages

3 sem. hrs. (3:0)
A study of selected visual programming languages and environments for students familiar with programming. Students will program using a variety of these visual languages. Prerequisite: COSC 2437 Summer

COSC 3360 - Human-computer Interaction

3 sem. hrs. (3:0)
An introductory course covering principles of cognition of importance to human-computer interaction, basic concepts of the human-computer interface, including interface design and evaluation, modes of interaction (command, menu, iconic), understanding the behavior of the user, diversity in user interface design, user mental models, and anthropomorphisms. Course focus is on designing user-friendly web pages with active content. Prerequisite: COSC 1436 Fall, even years

COSC 3365 - Cyber Defense I

3 sem. hrs. (3:0)
This course introduces the student in the identification of vulnerabilities, forms of attack, appropriate countermeasures, and the detection and defense of the same. Tools and techniques for the securing of hardware, software and data, including physical security are covered. The issues and facilities available to both the intruder and administrator will be examined and evaluated with appropriate exercises to illustrate their effect. Prerequisites: COSC 2365.

COSC 3366 - Network Administration II

3 sem. hrs. (3:0)
This course focuses on advanced networking topics. Technologies available to large enterprises to build a large intranet infrastructure are explored in depth. Topics include intermediate switch and routing configuration, IP addressing techniques, VLANs, Spanning tree protocol and Trunking. Wide area networking (WAN) technology; PPP, frame relay, HDLC, and optical networking will be examined and evaluated. Prerequisite: COSC 2366.

COSC 3370 - Software Engineering

3 sem. hrs. (3:0)
This course introduces students to software engineering principles for the development and maintenance of high quality large software systems. Topics include: software life cycle, delivering on time and within budget, and the development and application of processes and tools for managing the complexities inherent in creating these systems. Prerequisite: COSC 2437.

COSC 3371 - Computer Information Systems Economics

3 sem. hrs. (3:0)
An introduction to concepts in information technology and software engineering with a focus on economics and managerial issues. Topics include cost benefit analysis, software and effort estimation, feasibility analysis, information systems proposals, software team coordination, and project management. May not be used as a CS elective for CS majors. Prerequisites: Junior Standing. Spring even years

COSC 3380 - Undergraduate Research Experience

3 sem. hrs. (3:0)
This course provides undergraduate students with a range of practical experiences in conducting real-world research. Students will communicate their ideas in oral and written forms. Students will interact with other students and professionals in ongoing research projects. Experience will be gained in all stages of research: proposing a project, designing an approach, and reporting results. Co-requisite: COSC 2437

COSC 3385 - Numerical Methods

3 sem. hrs. 3:0
This course introduces concepts for solving problems numerically using computers. Students will learn about number systems, errors of finite representation, and iteration. A survey of basic numerical methods including: solutions to nonlinear equations, solutions to linear systems, approximation, interpolation, zeros of functions, numerical differentiation and integration, and Monte-Carlo methods. Prerequisites: MATH 2413 - Calculus I, COSC 1330 - Programming for Scientists, Engineers, and Mathematicians or COSC 1435 - Introduction to Problem Solving with Computers I. MATH 2414 - Calculus II and MATH 3311 - Linear Algebra are recommended.

COSC 3400 - Skills for Computing Professionals

4 sem. hrs. (3:2)
This course focuses on the professional skills that computer scientists will need to be successful in their careers. There are two key areas of study, communication skills needed by computer scientists and their ethical responsibilities. Communication skills will include: technical writing from a computer science perspective, presentation skills, client interviewing, and reading technical articles. Ethical issues will be explored from a computer science perspective. Prerequisites: ENGL 1302.

COSC 4310 - Digital forensics

3 sem. hrs. (3:0)
This course will introduce undergraduate 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. Several Forensics tools such as Encase and FTK will be used to conduct digital forensics investigations. Prerequisite: COSC 2437

COSC 4325 - Advanced Game Programming

3 sem. hrs. (3:0)
This course will introduce advanced concepts for game programming to the student. Topics will include game physics, game AI, advanced shaders, 3D techniques, multiplayer techniques, and networking. The course will contain lectures and hands-on labs. Prerequisite: COSC 3325

COSC 4328 - Computer Graphics

3 sem. hrs. (3:0)
Basic principles and techniques for computer graphics on modern graphics hardware. Students will gain experience in interactive computer graphics using the OpenGL API. Topics include: 2D viewing, 3D viewing, perspective, lighting, and geometry. Prerequisite: COSC 2437, MATH 2413. MATH 3311, Linear Algebra is recommended Fall

COSC 4330 - Introduction to Artificial Intelligence

3 sem. hrs. (3:0)
Foundations, directions, and applications of artificial intelligence including search algorithms, knowledge acquisition, representation, and processing. Students will gain practical experience by implementing many of the basic algorithms. Prerequisite: COSC 2437 and MATH 2305 Spring, even years

COSC 4342 - Computer Networks

3 sem. hrs. (3:0)
Computer-based communication systems. Topics include: advanced computer network architectures, protocols, and programming. Prerequisites: COSC 3346, MATH 2413 Fall, Spring

COSC 4343 - Algorithms

3 sem. hrs. (3:0)
Advanced programming techniques for algorithmic and heuristic solutions of problems. Topics include: analysis and design of algorithms, testing of algorithms, optimum and exhaustive solutions, and recursion. Prerequisites: COSC 2437, MATH 2305, MATH 2413 Spring, odd years

COSC 4348 - Systems Programming

3 sem. hrs. (3:0)
The design and implementation of system software such as device drivers, application support libraries, and interprocess communication. Students will study and use systems programming tools. Prerequisites: COSC 3346, and either COSC 3353 or COSC 3324 Spring

COSC 4353 - Compiler Construction

3 sem. hrs. (3:0)
This course introduces the basic concepts and mechanisms traditionally employed in language translators, with emphasis on compilers. Topics include: strategies for syntactic and semantic analysis, techniques of code optimization and approaches toward code generation. Prerequisites: COSC 3353, MATH 2305 Spring odd years

COSC 4354 - Senior Capstone Project

3 sem. hrs. (3:0)
Teamwork and formal methods of systems analysis and design are emphasized. Students will complete a large team project. Prerequisites: COSC 3370 and COSC 3336.

COSC 4360 - Theory of Programming Languages

3 sem. hrs. (3:0)
The study of programming language design including syntax, semantics, behavior, and implementation issues in imperative, functional, logic, and object-oriented languages. Other topics include type theory, concurrency, data dependency, and nondeterminism. Prerequisite: COSC 2437 Fall odd years

COSC 4365 - System Administration II

3 sem. hrs. (3:0)

This course focuses on advanced system administration topics. An in depth understanding of various concepts such as operating systems, servers, file systems authentication, and user support services are explored. Topics include security issues, user and group administration, server and work-station integration, central repositories for updates, Active directory, DMZ, web servers, email servers, electronic system update and maintenance, backup and restoration strategies and techniques, integrated mass storage technologies and alternative client technologies. Prerequisite: COSC 3365.

COSC 4367 - Firewall and Intrustion Detection Systems

3 sem. hrs. (3:0)
This course is a laboratory-based course that focuses on the standards and technologies used to establish inter-network structures that will support a TCP/IP data stream for higher-level services to operate over. This course introduces firewalls, Intrusion Prevention Systems (IPS), and Intrusion Detection Systems (IDS) technology. Topics include Windows, Linux, Check Point and Cisco firewalls, TCP/IP and open system interconnection (OSI) models, attack traffic analysis, and network based and host based hardware and software. Device configuration will be examined and evaluated with appropriate laboratory exercises.
COSC 2365, COSC 2366, and COSC 4365

COSC 4368 - Cyber Defense II

3 sem. hrs. (3:0)
This course focuses to increase the students understanding of how to recognize a potential cyber attacker and identify vulnerabilities through the use of vulnerability analysis tools. Students will audit, monitor, and revise system security to ensure appropriate levels of protection are achieved. Incident response and handling, security log analysis, attacker identification, system recovery and postmortem procedures will be addressed. Prerequisites: COSC 4365, COSC 4366.

COSC 4370 - Models of Computation

3 sem. hrs. (3:0)
A study of formal languages, grammars, and associated abstract machine models. Topics include regular and context-free languages and grammars, finite state automata, Turing machines, and the Chomsky hierarchy. Prerequisite: MATH 2305

COSC 4396 - Directed Independent Study

3 sem. hrs. (3:0)
See College description. Offered on sufficient demand.

COSC 4590 - Selected Topics

1-5 sem. hrs.
Variable content. May be repeated for credit depending on topic. Offered on sufficient demand.

COSC 4690 - Contracted Field Experience in Computer Science

1-6 sem. hrs.
Individual contract agreement involving student, faculty, and cooperating agency to gain practical experience in off-campus setting. Prerequisite: Approval by Department. Credit/No-Credit

Criminal Justice

CRIJ 1301 - Introduction to Criminal Justice

3 sem. hrs. TCCNS Equivalent: CRIJ 1301
History and philosophy of criminal justice. Overview of criminal justice system: police, prosecution and defense, courts, trial process, and corrections as they affect the individual, as well as their impact on society. The definition, nature, and impact of crime. The functions of criminal justice agencies will be examined in relation to common analytical themes such as ethics and discretion.

CRIJ 1313 - The Juvenile Justice System

3 sem. hrs. TCCNS Equivalent: CRIJ 1313
The administration of the juvenile justice process. Historical and philosophical origins of the juvenile justice system. A systematic analysis of problems and procedures at each stage of the process.

CRIJ 2328 - Police Systems and Practices

3 sem. hrs. TCCNS Equivalent: CRIJ 2328
The history and development of police in America. Topics examined include: the police profession, organization of law enforcement systems, the policing role, police discretion, ethics, police-community interaction, current and future issues, and research findings.

CRIJ 3302 - Police and Society

3 sem. hrs.
Examination of policing in a democratic society. A critical review of various professional and community influences on police behavior, together with a consideration of social problems created by such forces, and potential remedial actions.

CRIJ 3310 - The Judicial Process

3 sem. hrs.
Examination of the civil and criminal legal systems and the roles played by political, social and economic factors in the administration of justice. Consideration of the roles and interests of litigants, defendants, police, attorneys, and the judiciary in the process.

CRIJ 3315 - Crime Prevention

3 sem. hrs.
Examination of traditional and innovative crime-prevention strategies. Consideration of the citizen's role in crime prevention. Analysis of factors related to the incidence and distribution of crime in relation to prevention tactics.

CRIJ 3320 - Issues in Corrections

3 sem. hrs.
Analysis of contemporary developments, controversies and management concerns in the field of corrections. Includes examination of theoretical foundations of correctional policy.

CRIJ 3325 - Community-Based Corrections

3 sem. hrs.
Examination of the correctional strategies and facilities available in community settings including diversion programs, probation, parole, half-way houses, boot camps, and restitution centers.

CRIJ 3340 - Comparative Criminal Justice

3 sem. hrs.
Comparison of the police in selected countries with the U.S. criminal justice system. Particular emphasis on social, political, and economic factors in the development and change in law enforcement.

CRIJ 3341 - Terrorism

3 sem. hrs. Lecture
An examination of political violence from criminological, legal, and political perspectives. Application to contemporary events is emphasized. The sociology, psychology, and organization of terrorist groups are also explored as well as counter-terrorism strategies, methods, and dilemmas.

CRIJ 3350 - Criminal Justice Management

3 sem. hrs.
Study of criminal justice agencies from a management perspective. An examination of basic organizational concepts as they apply to the management of criminal justice agencies: purpose, structure, technology, leadership, relationships and rewards.

CRIJ 4310 - Constitutional Law

3 sem. hrs.
A case study of American constitutional law based on the leading decisions of the U.S. Supreme Court. Examination of the evolution of judicial review and the development of due process and the protection of individual rights.

CRIJ 4311 - Criminal Law

3 sem. hrs.
Review of the influence of theory and philosophy of law on the development of American criminal law. Consideration of the functions of criminal law, elements of specific offenses, types of defenses, and legal reasoning.

CRIJ 4312 - Law and Evidence

3 sem. hrs.
A detailed examination of the use, admissibility, and presentation of evidence. Issues and problems dealing with the rules of evidence and the theories on which those rules are based.

CRIJ 4313 - Criminal Procedure

3 sem. hrs.
A detailed examination of the legal constraints on investigation and prosecution of criminal offenses. Analysis of the Texas Code

of Criminal Procedure and of Search and Seizure Law under the Fourth Amendment, as well as other due process issues arising under the Fifth and Sixth Amendments.

CRIJ 4320 - Offender Rehabilitation

3 sem. hrs.
Theories of rehabilitation, treatment, and correction of criminal offenders. Includes analysis of the historical development of the rehabilitative ideal and contemporary controversies surrounding it, and a survey of therapeutic models and methods.

CRIJ 4321 - American Prisons and Prisoners

3 sem. hrs.
Analysis of the history, philosophy, and function of prisons. Examination of control and treatment of offenders in institutional settings. Focus is upon current developments, controversies and management problems.

CRIJ 4322 - Crime and Punishment in Literature

3 sem. hrs.
A study of selected literary classics that treat of crime and punishment. The works of literary artists from various cultures which describe experience with crime and the criminal justice system will be placed in historical and theoretical perspective.

CRIJ 4324 - Women and Criminal Justice

3 sem. hrs.
An historical and ideological analysis of the role of women in the criminal justice system as offenders, reformers, and professionals.

CRIJ 4330 - Understanding Criminal Behavior

3 sem. hrs.
This course examines various aspects of human behavior from a criminal justice perspective and is designed to give students a basic understanding of criminal behavior and psychological disorders which are encountered by criminal justice professionals.

CRIJ 4331 - Juvenile Delinquency

3 sem. hrs.
Examination of the nature and extent of juvenile crime today. Analysis of the history and theory of delinquency and society's response to it. (Credit may not be given for both this course and SOCI 4331.)

CRIJ 4335 - Criminology

3 sem. hrs.
An examination of the major sociological explanations for crime, criminal behavior, and the social responses to crime. (Credit may not be given for both this course and SOCI 4335.)

CRIJ 4340 - Criminal Investigation

3 sem. hrs.
Critical examination of investigation methods and comparison of these to research methods. Advanced examination of investigative procedures, theory, supervision, and evaluative research. Some practical applications.

CRIJ 4345 - Research Methods in Criminal Justice

3 sem. hrs.
This course is designed to help students gain a working understanding of the research process with direct application to criminal justice research. Attention will focus on various aspects of the research process including quantitative and qualitative methods. Students will complete literature reviews, create research proposals, conduct observations/interviews, and construct surveys in addition to various assignments and activities. Prerequisite: CRIJ 1301 or CRIJ 1313.

CRIJ 4351 - Police Supervision and Management

3 sem. hrs.
Study of contemporary theories of management and supervision as they relate to law enforcement. Management concerns considered include planning, motivation, organizational communication, discipline, productivity, ethics, conflict, and job stress.

CRIJ 4360 - Domestic Violence

3 sem. hrs.
Violence involving acquaintance, spouse, child, and elder abuse is examined within a theoretical construct relating violence to social responses. Alternative causal theories, prevention, counseling, administration, innovative programs, and inter-agency coordination are addressed.

CRIJ 4365 - White Collar Crime

3 sem. hrs.
Critical examination of widespread forms of offending and offenders typically omitted from traditional criminology and criminal justice courses. Critical exploration of white collar, corporate, environmental and governmental crimes/criminals.

CRIJ 4370 - Sports and Crime

3 sem. hrs.
Critical evaluation of the realm of sport (broadly defined) from criminological and sociological perspectives. Critical examination of the relationship between sports and crime, deviance, controversy, and conflict, including an in-depth and critical analysis of the various economic, political, social, cultural and historical aspects that affect sport in our society.

CRIJ 4380 - Serial Murder Investigations

3 sem. hrs.
This course introduces the student to the phenomenon of serial murder and its various definitions. The course emphasizes the difficult investigations serial murders present, victim selection by serial killers, and the psychology of serial killers and serial killer investigations.

CRIJ 4390 - Topics in Criminal Justice

3 sem. hrs.
May be repeated for credit when topics vary.

CRIJ 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application.

CRIJ 4398 - Applied Experience

3 sem. hrs.
See College description. Offered on application.

Dance

DANC 1141 - Ballet I

1 sem. hrs. TCCNS Equivalent: DANC 1141
A beginning ballet dance course aligned with the Theatre, Dance, and Musical Theatre disciplines. The student will learn fundamentals of classical ballet; terminology, alignment, barre and floor technique, as well as genres of the contemporary styles. May be repeated for credit.

DANC 1147 - Jazz Dance I

1 sem. hrs. TCCNS Equivalent: DANC 1147
A beginning jazz dance course aligned with the Theatre, Dance, and Musical Theatre disciplines. Students will be introduced to genres of the jazz dance from primitive ritual through contemporary musical theatre compositions. KINE 1124 - Beginning Jazz Dance may be substituted for DANC 1147. May be repeated for credit.

DANC 1148 - Modern Dance I

1 sem. hrs. TCCNS Equivalent: DANC 1148
A beginning modern dance course aligned with the Theatre, Dance, and Musical Theatre disciplines. Students will be introduced to the fundamentals of Modern Dance using a variety of modern dance styles, including technique, progressive movement and dance performance. May be repeated for credit.

DANC 1304 - Dance in Performance

3 sem. hrs. TCCNS Equivalent: DANC 1304
Students will be introduced to the fundamentals of choreography using a variety of dance styles and, using those skills, create dance intended for public performance. May be repeated for credit.

DANC 3303 - World Dance and Culture

3 sem. hrs. TCCNS Equivalent: DANC 3303
Offers a cross cultural and historical view of a variety of theatrical, vernacular and sacred dance forms and investigates ways that dance functions across societies. No background in dance is necessary to successfully complete this course.

DANC 3306 - Dance Composition

3 sem. hrs.
Introduction to basic techniques and principles of the craft and art of choreography. Solo and duet choreography expected.

DANC 4306 - Dance Composition II

3 sem. hrs. TCCNS Equivalent: DANC 4306
Demonstrate choreographic tools in the dance making process as it relates to group work; explore and create movement studies in groups as it pertains to art. Prerequisite: DANC 3306 Dance Composition I.

Early Childhood Education

ECED 3380 - Developmentally Appropriate Practice in Early Childhood Education

3 sem. hrs.
An intensive study of developmentally appropriate practice in early childhood education. Students will learn the components of lesson plans and create several lesson plans. Emphasis will be placed on selecting, defining, developing strategies and techniques, and assessing practices which support developmentally appropriate practices. Prerequisite: ECED 2310 or ECED 3324.

ECED 4310 - Socialization of the Young Child

3 sem. hrs.
An intensive study of the social development, the agents of socialization, and the socialization process in early childhood. Prerequisite: ECED 2310 or ECED 3324.

ECED 4320 - The Young Child, Family and Community Resources

3 sem. hrs.
A study of current family structures, their relationship to the young child, society, and the community. Emphasis will be placed on an inclusive model which addresses the needs of the global community as it relates to the young child. Prerequisite: ECED 2310 or ECED 3324.

ECED 4330 - Health, Nutrition and Locomotor Concepts for the Young Child

3 sem. hrs.
The relationship between health, nutrition, and locomotor development in the young child is investigated.

ECED 4340 - Communication and Aesthetics

3 sem. hrs.
A study of language development; early literacy, language arts, and aesthetics. Students will develop an integrated thematic unit plan. Strategies and curriculum materials that are developmentally appropriate for young children will be emphasized to support the Texas Essential Knowledge and Skills (TEKS). Prerequisites: Junior standing and completion of ECED 3311 and ECED 3324.

Economics

ECON 2301 - Macroeconomics Principles

3 sem. hrs. TCCNS Equivalent: ECON 2301
An overview of how the economy of the United States is organized and functions in a market price system. Market processes are used to show how resources and incomes are allocated by households and businesses. Determination of national income, employment, price level, interest rates, and growth are the focus of simple analysis techniques. Monetary and fiscal policies are examined including their international dimensions. Satisfies the economics component of the University core curriculum.

ECON 2302 - Microeconomics Principles

3 sem. hrs. TCCNS Equivalent: ECON 2302
Demand and supply, consumer behavior, elasticity, production costs, perfect and imperfect market structures and models of the modern market price system are analyzed. Emphasis is on use of marginal analysis to determine prices, output, income and economic welfare in a market price system. Satisfies the economics component of the University core curriculum. Satisfies the economics component of the University core curriculum.

ECON 3310 - Intermediate Macroeconomics

3 sem. hrs.
Theory of the determination of aggregate income, employment and prices is examined. Focus is on the microeconomic foundations of aggregate demand: consumption, investment, foreign trade, and government. Macroeconomic models from the basic through the complete model are examined for the U.S. and global economies. Prerequisites: ECON 2301, ECON 2302, and Junior standing or above.

ECON 3311 - Intermediate Microeconomics

3 sem. hrs.
Examines supply and demand analysis, consumption theory, production theory, structure and performance of firms, efficiency of markets, and determination of general welfare in a market price system. Prerequisites: ECON 2301, ECON 2302, and Junior standing or above.

ECON 3312 - Money and Banking

3 sem. hrs.
Description of the operations of banking and other financial institutions, examination of the basic tenets of monetary theory, analysis of monetary policy and its contribution to economic policy. Prerequisites: ECON 2301, ECON 2302 and Junior standing or above.

ECON 3315 - International Economic Issues

3 sem. hrs.
Evaluates and analyzes various contemporary issues in international economics, using elementary economic theory and recent economic and financial data. The course includes issues such as economic integration, regionalization and globalization, international trade issues, the structure and role of international economic organizations, the foreign exchange market, and economic issues in developing countries. Prerequisites: ECON 2301 and Junior standing or above.

ECON 3316 - Environmental Economics

3 sem. hrs.
Uses economic analysis to examine the underlying causes of environmental and natural resource problems, as well as alternative policy issues. The choice of environmental protection goals and the means of achieving them are analyzed and applied to the cases of air pollution (local and global), water pollution, and toxic pollution. The environmental policies of various countries are compared and studied from an economic perspective. Prerequisites: ECON 2301 or ECON 2302, and Junior standing or above.

ECON 3320 - Public Finance

3 sem. hrs.
This course examines the role that government plays in the economy. The course discusses the conditions for economic efficiency to be achieved and circumstances where a market fails. It also presents the concepts of public goods and the aggregation of individual preferences into collective priorities as expressed by the general public through the political process. Topics include taxation, welfare economics, and budget and fiscal federalism. Prerequisites: ECON 2301, or ECON 2302, and Junior standing or above.

ECON 3322 - Managerial Economics

3 sem. hrs.
Emphasis is on the use of economic principles to make sound business decisions. Students will use economic analysis, knowledge of markets and organizations to address real-world problems. The course emphasizes the role of the business economist as a member of the management team trying to find ways to improve the use of resources available to an organization. Prerequisites: ECON 2302, and Junior standing or above.

ECON 3335 - Labor Economics

3 sem. hrs.
The study of labor theory and labor market processes to explain how household labor decisions are made and how household incomes are determined. The effects of labor market imperfections, and the effects of business decisions and labor unions on labor market outcomes are also evaluated. Provides an overview of the U.S. labor movement, including its impact on federal legislation; labor theory; and contemporary labor issues. The effects of federal legislation are examined, including those on the competitiveness of U.S. labor in a global economy. Prerequisites: ECON 2301, ECON 2302, AND Junior standing or above.

ECON 4085 - Economics Exit Exam

0 sem. hrs. 0:0
The Economics Exit Exam (EEE) is an exam given in the Fall and Spring semesters only. It is a graduation requirement for all students with a BBA degree in Economics. Students enroll in this course during the semester that they plan to take the EEE. Admission is limited to students who have completed 90 or more semester credit hours. CR/NC

ECON 4310 - Introduction to Econometrics

3 sem. hrs.
A study of the analysis of quantitative data, with special emphasis on the application of statistical methods to economic problems. The course covers the theory and practice of ordinary least squares regression, application to economics and finance, and selected special topics. Students are expected to use statistical software packages as part of this course. Prerequisites: ECON 2301, ECON2302, ORMS3310 (or MATH 1342 or equivalent) and Junior standing or above.

ECON 4325 - Economics of European Integration

3 sem. hrs.
An introduction to the economics of Western Europe, and by implication, the economic functions of the institutions of the European Union (EU). Students are introduced to economic policy issues which are currently of concern in the European Union, and the analysis of economic problems which are of particular relevance to European Union member states. These include (but are not limited to) the theory of customs unions, optimal currency area theory, the single market, competition policy, and the external trade and development policies of the EU. Prerequisites: ECON 2301, ECON 2302, and Junior standing or above.

ECON 4388 - History of Economic Thought

3 sem. hrs.
A consideration of the philosophical basis, historical context, and development of economic thinking. Focuses on pre-20th-century economists-the Mercantilists, the Physiocrats, Adam Smith, David Ricardo, Karl Marx, and early neoclassical economists. Attention is also given to later economists and schools of thought as continuations and modifications of earlier ideas in economics. Prerequisites: ECON 3310, ECON 3311 and Junior standing or above.

ECON 4390 - Current Topics in Economics

1-3 sem. hrs.
Selected topics for special study related to economics, the functioning of the economy or economic issues. May be repeated for credit when topics vary. Prerequisites: ECON 2301 or equivalent, and others depending on topic, and Junior standing or above. Contact the Dean’s office for information.

ECON 4396 - Directed Individual Study

1-3 sem. hrs.
Individual supervised study and a final report. Prerequisites: permission of instructor, Junior standing or above, and others depending on selected topic. Inquire at the Dean's office for information.

ECON 4398 - Internship in Economics

3 sem. hrs.
Supervised full-time or part-time, off-campus training in a service, manufacturing, or public sector position. Oral and written reports required. Prerequisites: Completion of at least 12 semester credit hours toward a Minor in Economics, and Junior standing or above. Students must apply to program and be accepted prior to registration. May not be repeated for credit.

Educational Curriculum and Instruction

EDUC 2307 - Schooling in a Democracy

3 sem. hrs.
A course to enable citizens, parents, and prospective professional educators to synthesize their general education experiences/courses with current issues and practices related to teaching and learning in the United States. Career opportunities and personal commitments to the teaching profession will be explored. The systematic process of admission to the teacher education program will be initiated. Field observations in communities and schools will be required.

EDUC 3311 - School and Society

3 sem. hrs.
The characteristics, organization, and management of the American School System including: The history of the development of American schools, legal and ethical issues, teaching as a profession, influence of cultural background on instruction of students, characteristics and needs of special populations, and adapting curriculum and instruction for students from special populations. A student interview with Department of Teacher Education faculty will be required. Field experiences required.

EDUC 4311 - Classroom Management: All Level

3 sem. hrs.
A study of classroom organization and management as related to basic principles of human development and learning. Preventative discipline techniques utilizing both group and individual processes are emphasized. This course is to be taken concurrently with Planning, Teaching, Assessment and Technology for All Level.

EDUC 4312 - Classroom Management: Grades 7-12

3 sem. hrs.
A study of classroom organization and management as related to basic principles of human development and learning. Preventative discipline techniques utilizing both group and individual processes are emphasized. This course is to be taken concurrently with Planning, Teaching, Assessment and Technology for Grades 8-12 Teachers.

EDUC 4313 - Classroom Management: Grades 4-8

3 sem. hrs.
A study of classroom organization and management as related to basic principles of human development and learning. Preventative discipline techniques utilizing both group and individual processes are emphasized. This course is to be taken concurrently with Planning, Teaching, Assessment and Technology for Grades 4-8 Teachers.

EDUC 4314 - Classroom Management: Grades EC-6

3 sem. hrs.
A study of classroom organization and management as related to basic principles of human development and learning. Preventative discipline techniques utilizing both group and individual processes are emphasized. This course is to be taken concurrently with Planning, Teaching, Assessment and Technology for Grades EC-6 Teachers.

EDUC 4321 - Instructional Design for Special Populations: All Level

3 sem. hrs.
A study of the characteristics and needs of special student populations in a culturally diverse society. Special populations emphasized will include special education, gifted and talented, at-risk, and bilingual. Instructional strategies, differentiating curriculum, and diversifying assessment will be examined in relation to special populations. This course is to be taken concurrently with student teaching.

EDUC 4322 - Instructional Design for Special Populations: Grades 7-12

3 sem. hrs.
A study of the characteristics and needs of special student populations in a culturally diverse society. Special populations emphasized will include special education, gifted and talented, at-risk, and bilingual.

Instructional strategies, differentiating curriculum, and diversifying assessment will be examined in relation to special populations. This course is to be taken concurrently with student teaching.

EDUC 4323 - Instructional Design for Special Populations: Grades 4-8

3 sem. hrs.
A study of the characteristics and needs of special student populations in a culturally diverse society. Special populations emphasized will include special education, gifted and talented, at-risk, and bilingual. Instructional strategies, differentiating curriculum, and diversifying assessment will be examined in relation to special populations. This course is to be taken concurrently with student teaching.

EDUC 4324 - Instructional Design for Special Populations: Grades EC-6

3 sem. hrs.
A study of the characteristics and needs of special student populations in a culturally diverse society. Special populations emphasized will include special education, gifted and talented, at-risk, and bilingual. Instructional strategies, differentiating curriculum, and diversifying assessment will be examined in relation to special populations. This course is to be taken concurrently with student teaching.

EDUC 4390 - Special Topics

1-3 sem. hrs.
Topics in Curriculum and Pedagogy will be explored at the request of participants or faculty with the approval of the Department Chair, Dean, and Curriculum Coordinating Committee (CCC).

EDUC 4605 - Planning, Teaching, Assessment and Technology for All Level Teachers

6 sem. hrs.
A study of planning, teaching, assessment and technology as they relate to teaching in grades EC-12. Planning will include general curriculum issues, the lesson cycle, multiple intelligences, learning styles and resources. Teaching will include methods and strategies for delivery of instruction and classroom environment. Assessment will focus on traditional and authentic alternative assessment. Technology will cover media and techniques from transparencies to computer technology, and will incorporate the skills and knowledge for using the microcomputer to plan and develop presentations, instructional materials, and learning activities in the public school curriculum. Observation and collaboration with professional teachers in the field, as well as journal writing, will be integral parts of the course. Two full days per week are required at a partner school site. A student may enroll in this course for a maximum of 2 times only; and it must be completed during the Fall or Spring semesters in order to successfully complete all requirements. Prerequisites: Admission to teacher education. Successful completion

of SMTE 1350 and READ 3320. Successful completion of SMTE 3315 or SMTE 3316. Successful completion of thirty-nine (39) hours of general education requirements. This course will provide at least 6 hrs. of TExES preparation.

EDUC 4606 - Planning, Teaching, Assessment and Technology for Grades 7-12 Teachers

6 sem. hrs.

A study of planning, teaching, assessment and technology as they relate to teaching in grades 7-12. Planning will include general curriculum issues, the lesson cycle, multiple intelligences, learning styles and resources. Teaching will include methods and strategies for delivery of instruction and classroom environment. Assessment will focus on traditional and authentic alternative assessment. Technology will cover media and techniques from transparencies to computer technology, and will incorporate the skills and knowledge for using the microcomputer to plan and develop presentations, instructional materials, and learning activities in the public school curriculum. Observation and collaboration with professional teachers in the field, as well as journal writing, will be integral parts of the course. Two full days per week are required at a partner school site. A student may enroll in this course for a maximum of 2 times only; and it must be completed during the Fall or Spring semesters in order to successfully complete all requirements. Prerequisites: Admission to teacher education. Successful completion of thirty-nine (39) hours of general education requirements. This course will provide at least 6 hrs. of TExES preparation.

EDUC 4607 - Planning, Teaching, Assessment and Technology for Grades 4-8 Teachers

6 sem. hrs.

A study of planning, teaching, assessment and technology as they relate to teaching in grades 4-8. Planning will include general curriculum issues, the lesson cycle, multiple intelligences, learning styles and resources. Teaching will include methods and strategies for delivery of instruction and classroom environment. Assessment will focus on traditional and authentic alternative assessment. Technology will cover media and techniques from transparencies to computer technology, and will incorporate the skills and knowledge for using the microcomputer to plan and develop presentations, instructional materials, and learning activities in the public school curriculum. Observation and collaboration with professional teachers in the field, as well as journal writing, will be integral parts of the course. Two full days per week are required at a partner school site. A student may enroll in this course for a maximum of 2 times only; and it must be completed during the Fall or Spring semesters in order to successfully complete all requirements. Prerequisite: Admission to teacher education. Successful completion of SMTE 1350 and READ 3321. Successful completion of SMTE 3315 or SMTE 3316. Successful completion of thirty-nine (39) hours of general education requirements. This course will provide at least 6 hrs. of TExES preparation.

EDUC 4608 - Planning, Teaching, Assessment and Technology for Grades EC-6 Teachers

6 sem. hrs.

A study of planning, teaching, assessment and technology as they relate to teaching in grades EC-6. Planning will include general curriculum issues, the lesson cycle, multiple intelligences, learning styles

and resources. Teaching will include methods and strategies for delivery of instruction and classroom environment. Assessment will focus on traditional and authentic alternative assessment. Technology will cover media and techniques from transparencies to computer technology, and will incorporate the skills and knowledge for using the microcomputer to plan and develop presentations, instructional materials, and learning activities in the public school curriculum. Observation and collaboration with professional teachers in the field, as well as journal writing, will be integral parts of the course. Two full days per week are required at a partner school site. A student may enroll in this course for a maximum of 2 times only; and it must be completed during the Fall or Spring semesters in order to successfully complete all requirements. Prerequisites: Admission to teacher education. Successful completion of SMTE 1350 and READ 3320. Successful completion of SMTE 3315 or SMTE 3316. Successful completion of thirty-nine (39) hours of general education requirements. This course will provide at least 6 hrs. of TExES preparation.

Education/Student Teaching

EDUC 4392 - Student Teaching: EC-Grade 6

3 sem. hrs.
Laboratory experiences and directed teaching in grades EC-Grade 6. Prerequisite: Admission to Student Teaching. Must be taken with EDUC 4693 Student Teaching: Grades 7-12

EDUC 4393 - Student Teaching: Grades 7-12

3 sem. hrs.
Laboratory experiences and directed teaching in grades 7-12. Prerequisite: Admission to Student Teaching. Must be taken with EDUC 4692 Student Teaching: EC-Grade

EDUC 4394 - Student Teaching: EC-Grade 6

3 sem. hrs.
Laboratory experiences and directed teaching in grades EC-Grade 6. Prerequisite: Admission to Student Teaching. Must be taken with EDUC 4693 Student Teaching: Grades 7-12

EDUC 4692 - Student Teaching: EC-Grade 6

6 sem. hrs.
Laboratory experiences and directed teaching in grades EC-Grade 6. Prerequisite: Admission to Student Teaching. Must be taken with EDUC 4393 Student Teaching: Grades 7-12.

EDUC 4693 - Student Teaching: Grades 7-12

6 sem. hrs.
Laboratory experiences and directed teaching in grades 7-12 in the student's teaching field(s). Prerequisite: Admission to Student Teaching.

EDUC 4694 - Student Teaching: EC-Grade 6

6 sem. hrs.
Laboratory experiences and directed teaching in grades EC-Grade 6. Prerequisite: Admission to Student Teaching. Must be taken with EDUC 4393 Student Teaching: Grades 7-12.

EDUC 4696 - Directed Individual Study

1-6 sem. hrs.
Programs will be designed for individual cases through special permission of the Department Chair and Dean. May be repeated for credit when the topic varies.

EDUC 4699 - Teaching Internship

6 sem. hrs.
An internship designed for inservice teachers seeking certification under the post baccalaureate program. Grade assigned will be "credit" (CR) or “no credit” (NC). Prerequisite: Admission to Student Teaching.

EDUC 4992 - Student Teaching: Grades 4-8

9 sem. hrs.
Laboratory experiences and directed teaching in grades 4-8 in the student's teaching field(s). Prerequisite: Admission to Student Teaching.

EDUC 4993 - Student Teaching: Grades 7-12

9 sem. hrs.
Laboratory experiences and directed teaching in grades 7-12. Prerequisite: Admission to Student Teaching.

EDUC 4994 - Student Teaching: EC-grade 6

9 sem. hrs.
Laboratory experiences and directed teaching in an EC-Grade 6 classroom. Prerequisite: Admission to Student Teaching.

Elementary Education

ELEM 3324 - Child Development and Appropriate Practices

3 sem. hrs.
Provides the student with an overview of the physical, social, emotional, and psychological development of children from infancy through early childhood.

ELEM 4345 - EC-6 Assessment and Evaluation

3 sem. hrs. lecture
A study of assessment for children EC-6 utilizing both formal and informal instruments will be addressed. A knowledge of choosing, administering, and reporting developmental assessment will be explored with an emphasis on assessment tools that can be used by teachers of young children. Principles of designing and using assessment and evaluation techniques that are culturally fair, intellectually sound, reliable, and content-valid for young children. Differentiation among criterion-referenced, norm-referenced, individual, informal, authentic, and group assessments will be emphasized. Students will review strategies for using assessment data to design instruction, and match assessment techniques to individual children and learning situations

ELEM 4350 - Social Studies

3 sem. hrs.
This course will expose students to skills and concepts taught in the Social Studies curriculum in the elementary school. Developmentally appropriate strategies, concepts, and curricular materials used in teaching the Social Studies will be emphasized. Prerequisites: Completion of ECED 3324, EDCI 3311 (or EDCI 5305 for MAC students) with the grade of "C" or better and completion or concurrent enrollment in ECED 3380.

ELEM 4696 - Directed Individual Study

1-6 sem. hrs.
Programs will be designed for individual cases through special permission of the Department Chair and Dean. May be repeated for credit when the topic varies.

English

ENGL 0399 - Integrated Reading and Writing

3 sem. hrs.
A portfolio-based course with required tutoring (lab) time focused on the writing and reading processes, including strategies for invention, revision, and editing, and techniques of active reading, such as analysis, inference, summary, and evaluating texts. Students will enter ENGL 0399 through Texas Success Initiative (TSI) mandated remediation. (Not counted toward graduation) (Co-Requisite: ENGL 1301)

ENGL 1301 - Composition I

3 sem. hrs. TCCNS Equivalent: ENGL 1301
Principles, techniques, and processes of written composition, textual analysis, and critical thinking. Satisfies the university core curriculum requirement in composition

ENGL 1302 - Composition II

3 sem. hrs. TCCNS Equivalent: ENGL 1302
Principles, techniques, and processes of written composition, with an emphasis on research and argument. Satisfies the university core curriculum requirement in composition Prerequisite: ENGL 1301.

ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance

3 sem. hrs. TCCNS Equivalent: ENGL 2332
Study of important literary texts from the Ancient World to the Renaissance. May be used to satisfy the university core curriculum requirement in literature. Prerequisites: ENGL 1301 and 1302.

ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present

3 sem. hrs. TCCNS Equivalent: ENGL 2333
Study of important literary texts from the Enlightenment to the present. May be used to satisfy the university core curriculum requirement in literature. Prerequisites: ENGL 1301 and 1302.

ENGL 2334 - Themes and Genres in English Literatures

3 sem. hrs.
Study of literatures written by British authors and/or authors from former British colonies. May be used to satisfy the university core curriculum requirement in literature. Prerequisites: ENGL 1301 and 1302.

ENGL 2335 - Themes and Genres in the Literatures of the Americas

3 sem. hrs.
Study of literatures written by authors of the Americas. May be used to satisfy the university core curriculum requirement in literature. Prerequisites: ENGL 1301 and 1302.

ENGL 2370 - Introduction to English Studies

3 sem. hrs.
An introduction to literary analysis and scholarship for the intermediate writer. Emphasis placed on genres of literature, literary research, and expository and analytical composition. Familiarizes students with the various disciplines and related conversations within English Studies. Should be taken by sophomore-level English majors and minors. Prerequisites: ENGL 1301 and 1302.

ENGL 3301 - Technical and Professional Writing

3 sem. hrs.
A course designed to help students gain practical experience in finding and interpreting information and writing reports and documents for specialized audiences in the technical and professional world. ENGL 3301 will be held in a computer-assisted classroom. Satisfies university computer literacy requirement. Prerequisites: ENGL 1301 and 1302.

ENGL 3320 - The Bible as Literature

3 sem. hrs.
A consideration of the Bible and its development over time as an anthology of texts, including its influence on the literature of the Anglo-American tradition. For all majors. Prerequisites: ENGL 1302 and ENGL 2332, 2333, 2334, or 2335.

ENGL 3321 - Film and Literature

3 sem. hrs.
Studies the connections between the formal elements of literature and of film, with emphasis on theme, narrative style, and genre. By viewing films based on literary sources, students will analyze how literature is adapted into film as well as identify strategies to view and read critically. For all majors. Prerequisites: ENGL 1302 and ENGL 2332, 2333, 2334, or 2335.

ENGL 3322 - Literary Perspectives on Children’s Fiction and Poetry

3 sem. hrs.
Literary study of children’s literature through reading, analysis, discussion and interpretation. The course emphasizes issues connected with society, culture, history, and literary genre.

ENGL 3323 - Literary Perspectives on Young Adult Fiction and Poetry

3 sem. hrs.
Literary study of young adult literature through analysis, discussion, and interpretation. The course emphasizes literary issues connected with society, culture, history, and genre.

ENGL 3339 - Introduction to Linguistics

3 sem. hrs.
Introductory survey course covering phonetics, morphology, syntax, semantics, sociolinguistics, neurolinguistics, and language acquisition.

ENGL 3340 - Grammar

3 sem. hrs.
Presents a general descriptive overview of English grammar and provides a structural framework for analyzing English sentences.

ENGL 3341 - Literature of the English Renaissance

3 sem. hrs.
A study of significant works of poetry, prose, and non-Shakespearean drama from 1500 to 1660.

ENGL 3342 - British Literature before the Renaissance

3 sem. hrs.
A study of significant works of British literature (poetry, prose, and drama) produced before the Renaissance, primarily from the Anglo-Saxon up to the Early Modern period.

ENGL 3345 - British Literature of the 19th through 21st Centuries

3 sem. hrs.
A study of selected poetry, drama, and prose of the 19th through 21st centuries from a cultural perspective.

ENGL 3348 - Drama

3 sem. hrs.
A genre-oriented study of dramatic literature, using a wide range of texts. Variable content.

ENGL 3349 - Themes and Forms of Poetry

3 sem. hrs.
A genre-oriented study of poetry using a wide range of texts. Variable content.

ENGL 3353 - The Short Story

3 sem. hrs.
A study of the short story (mainly American) from its early beginnings in the mid-nineteenth century to present times.

ENGL 3354 - American Literature: to 1865

3 sem. hrs.
A study of significant works of American poetry, drama, and prose from the country's pre-European beginnings to 1865, including both oral and written traditions.

ENGL 3355 - American Literature: Late 19th and Early 20th Century

3 sem. hrs.
This course examines American poetry, drama, and prose from 1865 to 1945 with a focus on how these works reflect literary and cultural values.

ENGL 3356 - American Literature: Since 1945

3 sem. hrs.
This course examines American poetry, drama, and prose from 1945 to the present, with emphasis on the diversity of contemporary and postmodern American literature.

ENGL 3357 - Reading and Writing Autobiography

3 sem. hrs.
A study of autobiographies (mainly American) that focuses on the history and theory of the genre. The course also provides opportunities for students to write creatively in the genre.

ENGL 3360 - Current Approaches to Composition and Literature

3 sem. hrs.
Prepares prospective teachers to create developmentally appropriate learning environments and tasks that enable student success in writing and the study of literature in Language Arts and English courses. Prepares students to meet the increased writing and reading expectations in all subject areas, including their own writing. Prerequisite: One Reading Course.

ENGL 3361 - Strategies and Genres of Advanced Writing

3 sem. hrs.
Practice in techniques and tactics of the sophisticated writer. Focus on rhetorical strategies that succeed in specific discourse situations, both academic and non-academic. Satisfies university computer literacy requirement.

ENGL 3362 - Techniques of Creative Writing

3 sem. hrs.
Develops students' theoretical knowledge and practical experience in using the techniques of creative writing. Focuses on poetry and short fiction. For all majors. Prerequisites: ENGL 1302 and ENGL 2332, 2333, 2334, or 2335.

ENGL 3363 - Rhetoric

3 sem. hrs.
A study of the historical and theoretical development of rhetoric within the works of principal thinkers in the classical period, the Enlightenment, and the contemporary period. The analysis of rhetorical concepts in their relation to civic, cultural, political, and pedagogical developments and the construction of knowledge. Prerequisites: ENGL 1301 and ENGL 1302. For Honors students only. Should be taken by students in their first spring in the Honors program.

ENGL 3364 - Expressive Writing and the Journal

3 sem. hrs.
Explores the uses and benefits of expressive writing in a personal journal through reading and writing about published works of experienced writers and scholars in the field, through mastery of a variety of journal-writing techniques, and through learning how to transform this private writing into public forms, including fiction, creative non-fiction, and poetry.

ENGL 3365 - Second Language Acquisition

3 sem. hrs.
This course is an introduction to second language acquisition. The course is designed to be accessible to students from a wide variety of backgrounds and no basic knowledge of the linguistic structure of English will be assumed. This course will address issues related to how second language is learned by both children and adults.

ENGL 3366 - Language in Society

3 sem. hrs.
An introduction to the study of language as a function of several societal variables. Introduces basic concepts of language such as linguistic varieties, dialect, speech communities, and linguistic attitudes.

ENGL 3367 - TESOL Seminar

3 sem. hrs.
This course presents an introduction to and a critique of current and traditional methodologies of teaching English to speakers of other languages, with emphasis on aural comprehension; speaking, reading, and writing skills; testing and assessment; and linguistic-cultural differences. This course is open to all majors, but is required for students seeking the Certificate in TESOL.
ENGL 3365 Second Language Acquisition or Approval of Instructor

ENGL 3368 - Community Literacy and Service Learning

3 sem. hrs.
The course explores how literacy is used in specific contexts, particularly in service-learning practices. It also focuses on how literacy is used as a way to construct knowledge, reflection, and action.

ENGL 3369 - Topics in Linguistics

3 sem. hrs.
Exploration of topics such as second language acquisition, language assessment, history of English, and contrastive analysis. May be repeated when topics vary.

ENGL 3375 - Writing in the Professions

3 sem. hrs.

The course focuses on rhetorical theory in professional writing, such as the role of context, audience and purpose, delivery (oral, written, and visual), ethical decision making in problem solving, and the broad spectrum of types of documents. This course is held in a computer-assisted classroom. Satisfies university computer literacy requirement.

Students must make a C or better in ENGL 1301 or 1302.

ENGL 3378 - Document Design and Publishing

3 sem. hrs.
Focuses on the integration of text and visual rhetoric, such as graphics, for all kinds of professional publications including technical documents, media, public relations pieces, and advertisements. Satisfies university computer literacy requirement.

ENGL 3379 - Writing for the Web

3 sem. hrs.
Emphasizes practical concepts related to writing and communication on the internet and the World Wide Web. Attention is given to finding and analyzing information; analyzing and designing WWW sites and other digital, hypertextual environments; and analyzing and composing hypertext-hypermedia materials for digital, networked environments. For all majors. Satisfies university computer literacy requirement.

ENGL 4304 - Shakespeare: Texts and Contexts

3 sem. hrs.
A study of selected dramatic works by William Shakespeare studied in the context of Renaissance culture, dramatic traditions, and stage history. Discussion topics include: textual production in the age of Shakespeare, the history of Shakespeare's plays in print, and the role of collaboration in performance and interpretation. Offered in Spring.

ENGL 4305 - Major Authors in British Literature

3 sem. hrs.
This course studies the significant works of a single, major author in British Literature. Texts are placed in the context of the writer's life, of the society, culture, and history of the times, and will be viewed through a variety of critical perspectives.

ENGL 4306 - Major Authors in American Literature

3 sem. hrs.
This course studies the significant works of a single major author in the literatures of the Americas. Texts are placed in the context of the writer's life, of the society, culture, and history of the times, and viewed through a variety of critical perspectives.

ENGL 4311 - Literature of the English Romantic Period

3 sem. hrs.
A study of significant works of poetry and prose from 1790-1832, with attention to the cultural and intellectual background of the period.

ENGL 4312 - Literature of the English Victorian Period

3 sem. hrs.
A study of significant works of poetry and prose from 1832 to 1901, with attention to the cultural and intellectual background of the period.

ENGL 4313 - British Literature of the 20th and 21st Centuries

3 sem. hrs.
A study of significant works of poetry, prose, and drama from 1901 to the present, with attention to the cultural and intellectual background of the period.

ENGL 4320 - Professional Writing Workshop

3 sem. hrs.
Tailored for individual students' writing and publishing projects in their disciplines such as article writing, instructional manuals, grant writing, and feasibility studies.

ENGL 4321 - Grant Writing

3 sem. hrs.
Introduces students to the grant writing process and provides them with experience writing actual grant applications on behalf of local non-profit organizations.

ENGL 4330 - Creative Writing Workshop I

3 sem. hrs.
Develops students' skills as critics and writers of fiction and poetry in a workshop setting. For all majors. Prerequisite: ENGL 3362 or permission of instructor.

ENGL 4335 - Creative Writing Workshop II

3 sem. hrs.
A continuation of ENGL 4330. For all majors. Prerequisites ENGL 3362 and ENGL 4330.

ENGL 4340 - The Novel

3 sem. hrs.
A genre-oriented study of long-form prose fictions, using a wide range of texts. Variable content.

ENGL 4345 - Rhetoric, Literature, and Writing

3 sem. hrs.
This course examines the history and major theories of rhetoric and explores how rhetorical concepts and approaches function in literature and influence contemporary composition practices.

ENGL 4350 - Studies in Poetics and Poetry of the 19th to 21st Centuries

3 sem. hrs.
A study of topics in the poetics of the Anglo-American tradition, focusing on works written by (published) poets about poetry and poetics primarily from the 19th to the 21st centuries.

ENGL 4351 - Senior Capstone: 20th and 21st Century Literature and Writing

3 sem. hrs.
A study of twentieth and twenty-first century literature in English for graduating seniors. Emphasis is placed on genre, research, and analytical expository writing. Prerequisite: ENGL 2370. This course should be taken during the student's final year of academic study.

ENGL 4354 - Science Fiction

3 sem. hrs.
A thematic study of representative works in the genre.

ENGL 4360 - Literature and Gender

3 sem. hrs.
This course introduces students to literature that explores issues of gender and sexuality. It focuses on relevant literary periods and conventions, as well as on the historical, social, and cultural contexts of artistic productions. Sample topics: women's literature, queer literature, literature and masculinity.

ENGL 4361 - Ethnic American Literature

3 sem. hrs.
Topics focus on the social and cultural contexts of artistic productions by Native American, African American, or Chicana authors.

ENGL 4362 - Topics in American Literature

3 sem. hrs.
Studies of issues and movements that are central to the history of the literature of the Americas. Sample topics: American Renaissance, American Regionalism, Modern American Fiction, Transnational American Studies, and Borderland Studies. May be repeated for credit when topics vary.

ENGL 4370 - Oral Interpretation of Children's Literature

3 sem. hrs.
A study, primarily through the medium of performance, of various types and forms of literature for children. Strongly oriented toward teaching literature in the elementary school classroom. (Credit may not be given for both this course and COMM 4323 or THEA 4323.)

ENGL 4380 - Critical Approaches to Literature and Culture

3 sem. hrs.
A study of selected perspectives and critical approaches to literature and culture, including an examination of some of the theoretical assumptions upon which they are based, as well as their implications for the way we think about literature, human identity, and the power of language. Prerequisite: ENGL 2370.

ENGL 4390 - Topics in English

3 sem. hrs.
May be repeated when topics vary—see S.A.I.L. or advisor for further information.

ENGL 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application.

ENGL 4397 - Applied Experience in Technical/Professional Writing

3 sem. hrs.
Practical experience in technical and professional writing jobs. May apply for three hours credit in the minor. See college description of applied experience for courses numbered 4398. Offered by application.

ENGL 4398 - Applied Experience

3 sem. hrs.
See College description. Offered on application.

Engineering

ENGR 1211 - Foundations of Engineering I

2 sem. hrs. (1:2) TCCNS Equivalent: ENGR 1201
Introduction to the engineering profession, ethics, and disciplines; development of skills in teamwork, problem solving and design; other topics include computer applications and programming; visualization, orthographic drawings and CAD tools; introduction to electrical circuits, semiconductor devices, digital logic, communications and their application in systems; Newton's laws, unit conversions, statistics, Excel; basic graphics skills.

ENGR 1312 - Foundations of Engineering II

3 sem. hrs. (2:2) TCCNS Equivalent: ENGR 1204
Topics include, depending on the major: emphasis on computer applications and programming and solids modeling using CAD tools or other software; fundamentals of engineering science; advanced graphic skills.

ENGR 2316 - Thermodynamics

3 sem. hrs. (3:0)
Theory and application of energy methods in engineering; conservation of mass and energy; energy transfer by heat, work and mass; thermodynamic properties; analysis of open and closed systems; the second law of thermodynamics and entropy; gas, vapor and refrigeration cycles. Prerequisites: PHYS 2425 - University Physics I and MATH 2414 - Calculus II .

ENGR 2322 - Materials Science

3 sem. hrs. (2:3)
Structure and properties of metallic and nonmetallic materials; microstructure, mechanical testing, phase diagrams, heat treatment, testing, ceramics, polymers, composites, construction materials, failure analysis, nondestructive evaluation, corrosion and thermal properties of materials . Prerequisites: CHEM 1411 - General Chemistry I , PHYS 2425 - University Physics I .

ENGR 2325 - Statics

3 sem. hrs. (3:0) TCCNS Equivalent: ENGR 2301

Theory of engineering mechanics involving forces, moments, and couples on stationary structures; equilibrium in two and three dimensions; free body diagrams; truss analysis; friction; centroids; centers of gravity and moments of inertia. Prerequisite: PHYS 2425 - University Physics I

ENGR 2326 - Dynamics

3 sem. hrs. (3:0) TCCNS Equivalent: ENGR 2302
Theory of engineering mechanics involving the motion of particles, rigid bodies and systems of particles; Newton's Laws; work

and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems. Prerequisite: ENGR 2325 - Statics and MATH 2414 - Calculus II .

ENGR 2460 - Circuit Analysis

4 sem. hrs. (3:3) TCCNS Equivalent: ENGR 2305
This course covers principles of electronics: charge, voltage, resistance, current, and power; Ohm's Law; Kirchhoff's voltage and current laws; RC and LC circuits; periodic functions, average and RMS measurements; transformers, electrical measurement instruments. The laboratory provides hands-on experience with devices and circuits discussed in the classroom. Corequisite: PHYS 2426 - University Physics II .

ENGR 3315 - Fluid Mechanics

3 sem. hrs. (3:0)
Fluid properties, fluid statics, dynamics, and kinematics, conservation of energy and momentum incompressible, laminar and turbulent flow. Similitude and dimensional analysis, and viscous flow. Prerequisites: MATH 3315 - Differential Equations , ENGR 2326 - Dynamics and MATH 3470 - Calculus III .

ENGR 3320 - Strength of Materials

3 sem. hrs. (2:3) TCCNS Equivalent: ENGR 2332
Concepts in strength of materials, stress, strain; deformation under load, direct, shear, and combined stresses; stress concentrations, bending stresses and torsional shear stresses, deflection in beams and shafts; columns, and pressure vessels. Prerequisite: ENGR 2325 - Statics and ENGR 2322 - Materials Science .

ENGR 3350 - Manufacturing Processes

3 sem. hrs. (2:3)
Introduction to metal and non-metallic manufacturing processes; casting, forging, rolling, extrusion, sheet metal forming, cutting tools turning and milling operations, abrasive machining, welding and joining, powder compaction, molding, forming of plastics, surface treatment, human factors and safety. Prerequisite: ENGR 1312 - Foundations of Engineering II, ENGR 3320 - Strength of Materials and ENGR 2326 - Dynamics .

ENGR 4390 - Special Topics in Engineering

1-3 sem. hrs.
Subject material variable. May be repeated for credit when topics are different. Prerequisite: Junior or senior level standing, specifics vary depending upon topic. Offered on demand. May be repeated for a total of 6 hours.

Engineering Technology

ENTC 2325 - Statics

3 sem. hrs. (3:0)
Theory of engineering mechanics involving forces, moments, and couples on stationary structures; equilibrium in two and three dimensions; free body diagrams; truss analysis; friction; centroids; centers of gravity and moments of inertia. Prerequisite:PHYS 2425 - University Physics I .

ENTC 2326 - Dynamics

3 sem. hrs. (3:0)

Theory of engineering mechanics involving the motion of particles, rigid bodies and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems.
Prerequisite: ENTC 2325 - Statics .

ENTC 2414 - Circuit Analysis I

4 sem. hrs. (3:3) TCCNS Equivalent: ENGT 1401
Fundamental aspects of DC circuit analysis: charge, voltage, resistance, current, and power; Ohm's Law; methods of analysis; series and parallel circuits; Kirchhoff's voltage and current laws; Thevenin and Norton Theorems; electrical measurement instruments; and use of analysis software. Prerequisite: MATH 2413 - Calculus I Co-requisite: PHYS 2426 - University Physics II .

ENTC 2490 - Special Topics

1-4 sem. hrs.
Subject material variable. May be repeated for different topics. Prerequisites:Varies. May be repeated for a total of 6 hours.

ENTC 3302 - Manufacturing Processes

3 sem. hrs. (2:3)
Introduction to metal and non-metallic manufacturing processes; casting, forging, rolling, extrusion, sheet metal forming, cutting tools turning and milling operations, abrasive machining, welding and joining, powder compaction, molding, forming of plastics, surface treatment, human factors and safety. Prerequisites: ENGR 1312 - Foundations of Engineering II , ENTC 3408 - Strength of Materials , and ENTC 2326 - Dynamics .

ENTC 3323 - Robotics and Automation

3 sem. hrs. (2:3)
Automation in a manufacturing and assembly setting, material handling systems, remote guided vehicles, automated storage and retrieval systems, computer numerical machine tools, robotics. Prerequisite: ENTC 3415 - Circuit Analysis II

ENTC 3406 - Fluid Mechanics

4 sem. hrs. (3:3)

Fluid properties, fluid statics, dynamics, and kinematics, conservation of energy and momentum incompressible, laminar and turbulent flow. Similitude and dimensional analysis, and viscous flow.
Prerequisite: ENTC 2326 - Dynamics .

ENTC 3408 - Strength of Materials

4 sem. hrs. (3:3)
Concepts in strength of materials, stress, strain; torsion; deformation under load; direct, shear, and combined stresses; shear and moment diagrams; mohr's circle; stress concentrations, bending stresses and torsional shear stresses, deflection in beams and shafts; columns, connections, and pressure vessels. Prerequisites:ENTC 2325 - Statics and ENTC 3410 - Material Science .

ENTC 3410 - Material Science

4 sem. hrs. (3:3)
Structure and properties of metallic and nonmetallic materials; microstructure, mechanical testing, phase diagrams, heat treatment, testing, ceramics, polymers, composites, construction materials, failure analysis, nondestructive evaluation, corrosion and thermal properties of materials . Prerequisite: CHEM 1411 - General Chemistry I and PHYS 2425 - University Physics I .

ENTC 3415 - Circuit Analysis II

4 sem. hrs. (3:3)
AC circuit analysis principles: AC generation, periodic functions, complex numbers, phasors, impedance and admittance, network theorems, power, frequency response, filters, transformers, and balanced three-phase systems; and use of analysis software. Prerequisites:ENTC 2414 - Circuit Analysis I .

ENTC 3416 - Digital Fundamentals

4 sem. hrs. (3:3)
Introduces the principles of digital logic analysis and design: logic functions; logic gates, number systems and conversions;

Boolean algebra; logic simplification, combinational circuits, programmable logic devices, sequential circuits, and use of analysis and simulation software. Co-requisite: ENTC 2414 - Circuit Analysis I .

ENTC 3418 - Microprocessors/Microcontrollers

4 sem. hrs. (3:3)
Introduction to microprocessor architecture, assembly language programming, and interfacing. Topics include computer organization, addressing modes, instruction set, interrupts, timing, memory, and interfacing. Prerequisite: COSC 1330 - Programming for Scientists, Engineers, and Mathematicians or COSC 1435 - Introduction to Problem Solving with Computers I

ENTC 3420 - Thermodynamics

4 sem. hrs. (3:3)
Theory and application of energy methods in engineering; conservation of mass and energy; energy transfer by heat, work and mass; thermodynamic properties; analysis of open and closed systems; the second law of thermodynamics and entropy; gas, vapor and refrigeration cycles. Prerequisites:PHYS 2425 - University Physics I and MATH 2414 - Calculus II .

ENTC 3444 - Electronic Devices and Circuits I

4 sem. hrs. (3:3)
An introduction to semiconductor theory; solid state devices, including diodes, Bipolar Junction transistors, JFETs, and MOSFETs; principles of operational amplifiers; transducers and sensors. Prerequisites: ENTC 3415 - Circuit Analysis II .

ENTC 3445 - Electronic Devices and Circuits II

4 sem. hrs. (3:3)
The applications of electronic devices, including linear and non-linear Op-Amp circuits, oscillators, wave-shaping circuits, active filters, rectifiers, voltage regulators, and power supplies; industrial electronics. Prerequisite: ENTC 3444 - Electronic Devices and Circuits I and PHYS 2425 - University Physics I .

ENTC 3450 - Electronic System Design

4 sem. hrs. (3:3)
Principles of engineering design of electronic circuits and systems; time and frequency responses; network analysis; systems specifications; evaluation, testing, and verification; use of electronic design automation tools. Prerequisites: ENTC 3445 - Electronic Devices and Circuits II .

ENTC 3455 - Solid Modeling and Finite Elements

4 sem. hrs. (3:3)
Use of computer aided design and solid modeling tools in engineering design and manufacturing including: solid modeling, stress, flow and heat transfer analysis using finite element methods, and rapid prototyping. Prerequisite: ENTC 3408 - Strength of Materials .

ENTC 4320 - Heat Transfer

3 sem. hrs. (3:0)
Fundamental study of convection, conduction and radiation as applied to heat transfer, heat exchangers, boilers, other heat transfer equipment. Prerequisite: ENTC 3406 - Fluid Mechanics and ENTC 3420 - Thermodynamics .

ENTC 4322 - Programmable Logic Controllers

3 sem. hrs. (2:3)
Introduction to PLCs and their use in industrial automation. Topics include programming, counters, timers, interrupts, and process control applications. Prerequisite: ENTC 3416 - Digital Fundamentals .

ENTC 4335 - Energy Conversion

3 sem. hrs. (2:3)
Installation, design characteristics, operational performance, and maintenance of motors, turbines, pumps and compressors. Introduction to global energy concerns; fossil and nuclear fuels; energy consumption analysis; energy management and conservation techniques; renewable and alternative energy sources. Modern energy conversion devices such as fuel cells, photovoltaic cells, and micro-power turbines. Prerequisite: ENTC 3420 - Thermodynamics .

ENTC 4350 - Capstone Projects

3 sem. hrs. (1:5)
This course allows students to employ the knowledge attained in other courses to implement (including building, testing, and documenting) the project approved in ENTC 4415 - Project Management , within budget and on schedule. Course requirements include a written report and oral presentations. Normally taken in the student’s last semester. Prerequisite: ENTC 4415 - Project Management

ENTC 4360 - Mechanical System Design

3 sem. hrs. (3:0)
Analysis, management and cost, team work, optimal design, and computer simulation of mechanical systems and components; Applications in fluid flow and heat transfer, machine elements, and stress analysis. Selected course topics are assigned as projects. Prerequisite: ENTC 3408 - Strength of Materials .

ENTC 4415 - Project Management

4 sem. hrs. (3:2)
Foundations of engineering economy, cash flow and equivalence, and project justification. Introduction to project management, planning, scheduling, and control, use of project management software, GANTT charts, PERT charts, critical path. Students prepare proposals, including specifications, timelines, schedule, and budget, for projects to be implemented in ENTC 4350 - Capstone Projects . This course should be taken the semester preceding ENTC 4350 - Capstone Projects .

ENTC 4420 - Embedded Systems

4 sem. hrs. (3:3)
Characteristics of embedded systems, system design, interface devices, memory management, interrupt support, input/output applications, software-hardware co-design, modular programming, multitasking, simulation, and control of external devices. Prerequisites: ENTC 3416 - Digital Fundamentals or ENTC 3418 - Microprocessors/Microcontrollers .

ENTC 4430 - Power Transmission and Distribution

4 sem. hrs. (3:3)
This course covers principles of power transmission and distribution. Topics include unbalanced distribution; point to point measurements, operation control of systems; power systems; transmission lines; fault analysis; line modeling and unit analysis. Prerequisites: ENTC 3415 - Circuit Analysis II .

ENTC 4435 - Power Protection Systems

4 sem. hrs. (3:3)
Course topics include safety, reliability and availability in power systems; breaker operation; relay operation and relay circuit design; fault tolerance; cost analysis; control systems and sytem surveillance. Prerequisites: ENTC 3415 - Circuit Analysis II .

ENTC 4446 - Control Systems I

4 sem. hrs. (3:3)
Introduction to control systems; open and feedback; Laplace transform and frequency response; control valves; electric motors; P, PI, and PID modes of control; analog and digital controllers Process characteristics; analysis of control systems; gain and phase margin; stability. Prerequisites: ENTC 2414 - Circuit Analysis I .

ENTC 4490 - Selected Topics

3-4 sem. hrs.
Subject material variable. May be repeated for different topics. Prerequisites: Vary.

ENTC 4496 - Directed Independent Study

1-4 sem. hrs.
Requires a formal proposal of study to be completed in advance of registration, approval of supervising faculty and chairperson. Prerequisites: Varies.

Environmental Science

ESCI 1401 - Environmental Science I: Intro to Environmental Science

4 sem. hrs. (3:2) TCCNS Equivalent: ENVR 1401
Principles of the scientific method and critical thinking provide a foundation for subsequent consideration of environmental issues through a multidisciplinary approach. Laboratory exercises and local field experiences reinforce concepts introduced in the lectures. This course counts toward the natural science component of the University Core Curriculum. SMTE 0096 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course. Fall, Spring.

ESCI 1490 - Selected Topics

1-4 sem. hrs.
Subject materials variable. May be repeated for credit when topics are significantly different. Faculty approval required.

ESCI 3202 - Professional Skills

2 sem. hrs. (2:0)
Presentation and discussion of selected topics relating to the professional skills of practicing environmental scientists including literature searches, reviews, paper presentation, professional and career opportunities, professional ethics.

ESCI 3351 - Oceanography

3 sem. hrs. (3:0)
Methods and principles of oceanography. A survey of oceanography with emphasis placed on the physical processes affecting water and water masses of the world oceans. Prerequisites: CHEM 1412, or ESCI 1401, or GEOL 1403, or permission of instructor.

ESCI 3403 - Introduction to Meteorology

4 sem. hrs. (3:2)
This course is an introduction to meteorology and the dynamics of planetary atmospheres. Emphasis on atmospheric accretion, composition, evolution, structure, and dynamics. Lab exercises cover basic measurement techniques, weather maps, and forecasting. A student cannot receive credit for both this course and ATSC 3403 - Introduction to Meteorology. SMTE 0096 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

ESCI 3443 - Environmental Biology

4 sem. hrs. (3:2)
Historical, contemporary, and projected concerns of human activities on biological aspects of ecosystem functioning. Prerequisite: BIOL 1407 or consent of instructor. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

ESCI 4201 - Scientific Diving Techniques

2 sem. hrs. (2:0)
Theory, science, and art of underwater diving technology and its application to scientific objectives. Course helps fulfill some training requirements of the Texas A&M University-Corpus Christi Guidelines for scientific diving. Prerequisite: PADI certification or permission of instructor.

ESCI 4202 - Issues in Environmental Science

2 sem. hrs. (2:0)
Exploration of major issues in environmental science posing past, present and future challenges. Selected readings, student presentations and papers. Prerequisites: Juniors/seniors only and ESCI 1401 - Environmental Science I: Intro to Environmental Science or permission of instructor.

ESCI 4301 - Environmental Regulations

3 sem. hrs. (3:0)
A survey of state and federal environmental laws and regulations, and their impact on the environment. Case studies of environmental issues and legislated regulations. Prerequisites: POLS 2305 - U.S. Government and Politics and POLS 2306 - State and Local Government.

ESCI 4320 - Environmental Health

3 sem. hrs. (3:0)
Overview of the toxicology and epidemiology of pollutants in the air, water and soil. Associations of environmental exposure with adverse health effects such as cancer, cardiovascular disease, and reproductive outcomes; also chemical markers and symptoms of disease. Pollutants studied include lead, asbestos, radiation, radon, noise, metals, halogenated hydrocarbons, aromatic hydrocarbons, silica, indoor air quality, formaldehyde, and outdoor air pollutants.

ESCI 4321 - Introduction to Soil and Groundwater Restoration

3 sem. hrs. (3:0)
Introduction to methods for restoring contaminated soil and groundwater by examining the factors and processes influencing the efficacy of remediation systems. An emphasis will be placed on the scientific principles upon which soil and groundwater remediation is based.

ESCI 4322 - Introduction to Industrial Hygiene

3 sem. hrs. (3:0)

Introduction to health protection practices in the industrial environment. Health basis for OSHA laws, regulations. Sampling and testing procedures.

ESCI 4324 - Introduction to Industrial Toxicology

3 sem. hrs. (3:0)

Review of human physiology, general concepts of toxicology: dose-response relationship, interactions between the host and the agents, risk assessment, to provide an introductory understanding of toxicology related to the chemicals in the workplace.

ESCI 4330 - Oil Spill Prevention and Response

3 sem. hrs. (2:2)
Historical perspective of laws and regulations governing oil spill prevention and response. Current methods for control, containment, countermeasures, removal, and disposal of oil spills in an environmentally safe manner. Field exercises in use of boats, booms and skimmers. SMTE 0096 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

ESCI 4332 - Introduction to Wetlands Management

3 sem. hrs. (2:2)

Introduction to Federal wetland and riparian regulatory policy, wetland delineation, wetland plants, hydric soils, wetland mitigation, wetland construction and riparian habitat restoration. Field trips. Prerequisite: ESCI 3443 - Environmental Biology or CHEM 4443 - Environmental Chemistry or GEOL 3443 - Environmental Geology, or permission of instructor. SMTE 0096 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course.

ESCI 4335 - Climate and Climate Variability

3 sem. hrs. (3:0)
Course intended to guide environmental science majors in developing a conceptual understanding of Earth's global climate and its variability. Review of past climates, present mean state of the climate system, climate variability from seasonal to multidecadal time scales, and climate change. Special attention given to climates of the Gulf of Mexico, Caribbean Sea and surrounding land regions. Plausible climate-change scenarios, as well as mitigation and adaptation strategies are also discussed. Prerequisite: ESCI 3351 or ESCI 3403 or instructor's consent.

ESCI 4340 - Severe Weather

3 sem. hrs. (3:0)
Introduction to mesoscale weather systems including thunderstorms, squall lines and hurricanes, as well as the mechanisms of tornado and lighting. Methods of observing, analyzing, and predicting these severe weather systems with the interpretation of satellite and radar images will also be introduced in this class. Prerequisite: ESCI 3403 - Introduction to Meteorology.

ESCI 4344 - Air Pollution and the Clean Air Act

3 sem. hrs. 3:0
Introduction to the chemistry and physics of air pollution and regulations. Topics include photochemistry, acid rain, air pollution meteorology and dispersion, global change, and the Clean Air Act.

ESCI 4360 - Physical Oceanography

3 sem. hrs. (3:0)
Physical description of the sea, physical properties of seawater and sea ice, methods and measurements, wind-driven ocean circulation, thermohaline ocean circulation, boundary processes, waves, tides and mixing. Seasonal and interannual variability such as El Niño/Southern Oscillation phenomena. Implications for marine biology, marine geology, human impacts, other topics. Prerequisites: ESCI 3351, and PHYS 1401 or PHYS 2425 or consent of instructor.

ESCI 4365 - Occupational Safety and Accident Prevention

3 sem. hrs. (3:0)
This course provides students with fundamental knowledge of regulatory requirements on occupational safety and practical techniques on accident prevention in the work environment.

ESCI 4370 - Hazardous Waste Operations and Emergency Response

3 sem. hrs. (2:2)
Study of the laws and regulations of hazardous waste management from an historical perspective followed by current techniques for handling, reducing, and disposing of hazardous wastes in an environmentally safe manner. Lab exercises in use of personal protective gear and safe handling of hazardous substances. SMTE 0096 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

ESCI 4408 - Environmental Microbiology

4 sem. hrs. (3:3)
Relationships between microorganisms and their biotic and abiotic environment. Current topics such as air quality (i.e., molds), water quality and bioremediation will be discussed. Laboratory will include techniques for sampling from soil, air and water. Prerequisite: BIOL 2421 or consent of instructor. SMTE 0092 Biomedical Laboratory Safety Seminar is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

ESCI 4490 - Selected Topics

0-4 sem. hrs.
Subject materials variable. May be repeated for credit when topics are significantly different. Faculty approval required.

ESCI 4496 - Directed Independent Study

1-4 sem. hrs.
Requires a formal proposal of study to be completed in advance of registration and to be approved by the supervising faculty, the Chairperson, and the Dean of the College.

ESCI 4498 - Internship in Environmental Science

2 sem. hrs. (Ind study)
Two to four semester hours of credit may be earned by working in an internship position in a governmental agency or industry. Prerequisite: senior environmental science majors only; requires approval of the faculty. May be repeated for credit.

Educational Technology

IDET 3100 - Educational Technology for Preservice Teachers in Schools

1 sem. hrs.
This field-based integrated course is designed to provide educators with an overview of basic resource tools and instructional methods to be considered when designing and developing educational technology integrated curriculum plans. This field-based infused seminar will look at basic integrated applications in creating electronic portfolios for all students. Aspects of online collaborative tools and their pedagogical implications in EC-12 environments will also be incorporated.

IDET 3310 - Technology Applications for Teachers

3 sem. hrs.
This course enables preservice and inservice teachers to effectively use computer-based technology for instructional and professional purposes, and provides participants with the skills and knowledge required for teacher certification in Texas. This course meets the university computer literacy requirement.

Finance

FINA 1307 - Personal Finance

3 sem. hrs. TCCNS Equivalent: FINA 1307
Covers the foundations of financial planning, managing basic assets, managing credit, managing insurance needs, managing investments, and retirement and estate planning. This course is designed for nonbusiness as well as business majors to give them a basic understanding of the aspects of personal financial planning.

FINA 3310 - Financial Management

3 sem. hrs.
A survey of financial management issues emphasizing planning and decision making. Specific topics covered include discounted cash flow analysis, stock and bond valuation, financial intermediation, organizing, raising and managing capital, capital investment, risk analysis, and financial statement analysis. Prerequisites: ACCT 2301, ACCT 2302, BUSI 0011, MATH 1325 or equivalent and Junior standing or above.

FINA 3312 - Financial Markets and Institutions

3 sem. hrs.
Course coverage includes an analysis of financial markets and institutions; regulation, money market operations, global impact of

central banking principles and monetary policy, and determinants of interest rates with financial asset pricing. Prerequisites: ECON 2301, ECON 2302, and Junior standing or above.

FINA 3320 - Intermediate Corporate Finance

3 sem. hrs.
The study of asset pricing, capital budgeting, capital management, growth through mergers, and leasing. Emphasis is on the development of problem-solving capabilities. Prerequisites: FINA 3310 and Junior standing or above.

FINA 3331 - Investments

3 sem. hrs.
Framework of financial markets, valuation of the firm, security analysis, investment equity versus debt, efficiency of market evaluation, diversification efforts, investment goals, and portfolio selection. Prerequisites: ACCT 2301, MATH 1325 or equivalent and Junior standing or above.

FINA 3335 - Financial Modeling

3 sem. hrs.
This course will cover the use of spreadsheet analysis in financial applications and introduce students to spreadsheet tools and functions to conduct business and personal financial analysis, valuation of bonds and stocks, and financial forecasting.

FINA 3350 - Cash Management

3 sem. hrs.
An examination of the principles and methods of cash and liquidity management with particular attention to funds transfer procedures and requirements. Specific topics include the role of cash management in corporate financial management, a review of relevant accounting concepts, the structure of the financial environment, the system of disbursements and collections, accounts receivable management, accounts payable management, information technology and electronic commerce, cash flow forecasting, short-term investing and borrowing, financial risk management, international treasury management, and management of relationships. Prerequisites: FINA 3310 or consent of instructor and Junior standing or above.

FINA 3351 - Insurance Principles

3 sem. hrs.
Fundamentals of risk management as practiced in the commercial life, health, property, and casualty insurance industries. Prerequisite: Junior standing or above.

FINA 3354 - Real Estate Principles

3 sem. hrs.
Fundamentals of real estate including site selection, legal processes and documents, financing, value determination, management, and marketing. Prerequisite: Junior standing or above.

FINA 3355 - Employee Benefits and Retirement Planning

3 sem. hrs.
This course examines the financial aspects of retirement planning as well as employee benefit planning including group insurance plans and the characteristics of the various types of employee benefit plans: life insurance, medical expense, disability, and retirement income. Prerequisite: Junior standing or above

FINA 4310 - Advanced Financial Management

3 sem. hrs.
Application of financial management tools, examination and interpretation of financial statements, and integration of financial policy and structure on overall management of the enterprise. Prerequisites: FINA 3320 and Junior standing or above.

FINA 4315 - International Finance

3 sem. hrs.
A study of the institutions and relationships of the international financial system as it relates to the balance of payments, foreign exchange risk, arbitrage and the Eurocurrency market. The emphasis is on methods of arbitrage, forecasting exchange rates, and hedging against foreign exchange risk. Prerequisites: ECON 2301, ECON 2302, FINA 3310, and Junior standing or above.

FINA 4321 - Financial Institutions Management

3 sem. hrs.
A study of major financial institutions and the markets in which they operate, with emphasis on financial decision making and risk management. Topics include financial intermediation theory; measurement and management of interest rate risk, credit risk, off-balance-sheet risk, foreign exchange risk, country risk, and liquidity risk; capital adequacy; and product/market diversification. Prerequisites: FINA 3310, ECON 2302, and Junior standing or above.

FINA 4330 - Introduction to Derivative Securities

3 sem. hrs.
Course coverage includes an analysis of financial derivative contracts. The class includes options, futures and forward contracts; in particular comodity trading and hedging strategies will be covered in detail. Swaps and Interest Rate Options will be included in the presentation if time permits. (Prerequisites: MATH 1324 or equivalent or approval of instructor).

FINA 4332 - Security Analysis and Portfolio Management

3 sem. hrs.
Evaluation of investment securities of both private and public institutions through external analysis of financial statements and economic conditions, portfolio selection, expected return and risk selection, and conditions of market efficiency. Prerequisites: FINA 3310, FINA 3331, ORMS 3310, and Junior standing or above.

FINA 4334 - Financial Statement Analysis

3 sem. hrs.
A detailed study of financial reporting with emphasis upon practical interpretations. Attention will be given to financial statement analysis using financial accounting information and its finance implications. Assignments may differ depending on major. Prerequisites: ACCT 2301, ACCT 2302, FINA 3310, and Junior standing or above.

FINA 4390 - Current Topics in Finance

1-3 sem. hrs.
Selected topics for special study related to finance functions, processes or issues. May be repeated for credit when topics vary. Prerequisites: Junior standing or above, and others depending on topic. Contact the Dean’s office for information.

FINA 4396 - Directed Individual Study

1-3 sem. hrs.
Individual supervised study and completion of a final report. Prerequisites: permission of instructor, Junior standing or above, and others depending on selected topic. Inquire at the Dean's office for information.

FINA 4398 - Internship in Finance

3 sem. hrs.
Supervised full-time or part-time, off-campus training in business or government finance office. Oral and written reports required. Prerequisites: finance major, and Junior standing or above. Students must apply to program and be accepted prior to registration. May not be repeated for credit.

French

FREN 1311 - French I

3 sem. hrs. TCCNS Equivalent: FREN 1311
Introduction to listening, speaking, reading, and writing skills within a French cultural framework. For students without previous knowledge of the language. (Language laboratory required. One hour per week minimum.) A lab fee is required for this course.

FREN 1312 - French II

3 sem. hrs. TCCNS Equivalent: FREN 1312
Continued practice in listening, speaking, reading and writing skills within a French cultural framework. French 1311 or equivalent required. (Language laboratory required. One hour per week minimum.) A lab fee is required for this course.

FREN 2311 - French III

3 sem. hrs. TCCNS Equivalent: FREN 2311
Reviews French grammar through oral and written practice with emphasis on language proficiency. Utilizes cultural readings in French to expand vocabulary and knowledge of the French culture.

FREN 2312 - French IV

3 sem. hrs. TCCNS Equivalent: FREN 2312
Continued advanced development and review of all language skills within a French framework with an emphasis in the linguistic perspective. Successful completion of 2311 is required to receive credit for 2312.

FREN 3306 - French Lit 1800 to Present

3 sem. hrs.
This course will deal with a short story, a novel, a film script and a play written by three of the big names from the nineteenth and twentieth centuries, two men and a woman. Each work deals in its way with the relationships between men and women, loneliness and alienation, faith and other modern considerations. (Teleconference course)

Geography

GEOG 1300 - World Geography

3 sem. hrs. TCCNS Equivalent: GEOG 1300
This is a survey course of the major regions of the world. The significant physical and cultural aspects of each region will be covered.

GEOG 1470 - Geographic Information Systems I

4 sem. hrs. (3:2)
Introduction to topics in modern geography, including elements of Physical Geography (studies of the atmosphere, ocean, and land, surface environments) and an introduction to Geographic Information Systems (GISC). A significant part of course work will include computer-assisted mapping and GISC assignments. Prerequisite or corequisite: COSC 1315. (Credit may not be given for both this course and GISC 1470.)

GEOG 3331 - Geography of North America

3 sem. hrs.
This course introduces the five themes in geography and uses these themes to analyze the relationships between the physical and cultural aspects of the United States. The textbook information will be supplemented with satellite images and visual materials to enhance the learning experience of the student.

Geology

GEOL 1303 - Essentials of Geology

3 sem. hrs. (3:0)
One-semester introductory Earth science course for students majoring in a non-science subject area. Covers basic geologic material and concepts, such as minerals, rocks, the rock cycle, and plate tectonics theory. Origin, composition, and evolution of our planet, as well as the importance of geology in everyday life, including geologic resources, global change, earthquakes, and volcanism are examined. This course is not recommended for students majoring in Geology or Environmental Sciences. Course counts toward the natural science component of the University Core Curriculum Programs.

GEOL 1403 - Physical Geology

4 sem. hrs. (3:2) TCCNS Equivalent: GEOL 1403.
Introduction to the origin, classification, and composition of Earth materials. Study of internal and surface processes which shape and modify Earth. Laboratory studies of minerals and rocks, as well as topographic maps, geologic maps and geologic cross-sections. This course counts toward the natural science component of the University Core Curriculum. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 1404 - Historical Geology

4 sem. hrs. (3:2) TCCNS Equivalent: GEOL 1404.
Introduction to the origin and evolution of Earth and other planets. Changes in the form and distribution of Earth's continents and oceans, and succession of plants and animals through geologic time. Laboratory studies of fossils, geological maps, and the interpretation of ancient environments of rock formation. This course counts toward the natural science component of the University Core Curriculum. Prerequisite: GEOL 1403 or GEOL 1303. SMTE 0094 is a co-requisite for this course. Documented

completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 2101 - Geological Field Explorations

1 sem. hrs. (0:2)
Introduction to basic field skills in geology and other field-based sciences. Basic techniques in safe field practices, collection of field observations, note taking, and scientific reasoning. Two- to four-day field excursion to areas that display a variety of geologic phenomena within Texas. Field trip destinations may vary from year to year. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 2102 - Undergraduate Seminar in Geology-Careers in the Geosciences

1 sem. hrs. (1:0)
Introductory level seminar featuring diverse topics and speakers. Focus on careers in the geosciences as well as on how to successfully plan a college career. In-house as well as external speakers. May not be repeated for credit but attendance in subsequent semesters is encouraged. credit/no credit

GEOL 2103 - Undergraduate Seminar in Geology-Research in the Geosciences

1 sem. hrs. (1:0)
Introductory level seminar featuring diverse topics and speakers. Focus on current geologic research. In-house as well as external speakers. May not be repeated for credit but attendance in subsequent semesters is highly encouraged. Credit/no credit credit/no credit

GEOL 2490 - Selected Topics

1-4 sem. hrs. (1-4 : 0-6)
May be repeated for credit if topics are significantly different. Subject material variable. Faculty approval required. letter

GEOL 3326 - Introduction to Geological Field Methods

3 sem. hrs. (2:3)
Introduction to the basic techniques of geological fieldwork. Note taking in the field, proper use of geological field equipment, measurement and description of rock sections by several methods and degrees of detail, plus small area mapping of several types of terrain with topographic maps. Reports, sections, and maps will be produced from the field notes. Field trips required. Prerequisites: GEOL 1403, GEOL 1404, and GEOL 3411 (may be taken concurrently). SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 3329 - Geology of National Parks

3 sem. hrs. (3:0)
Introduction to the regional geology of the United States using selected U.S. National Parks representing a wide variety of geologic settings as examples. Application of major geologic principles and basic geologic concepts such as plate tectonics, rock cycle, stratigraphy, and geologic time. Prerequisite: GEOL 1303, or GEOL 1403, or GEOL 1404.

GEOL 3411 - Mineralogy

4 sem. hrs. (3:2)
Study of the physical and chemical properties of minerals. Introduction to the crystallography of minerals, optical mineralogy, and the use of the polarized light microscope. Laboratory study of mineral identification in hand specimens and thin sections. Prerequisites: GEOL 1403, CHEM 1411, and CHEM 1412 (may be taken concurrently). SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 3414 - Igneous and Metamorphic Petrology

4 sem. hrs. (3:2)
Genesis and occurrence of igneous and metamorphic rocks. Mineralogical composition and thermodynamics of geologic systems. Determination of rock types in hand specimens and thin sections.Prerequisite: GEOL 1403 - Physical Geology, CHEM 1411 - General Chemistry I, CHEM 1412 - General Chemistry II, GEOL 3411 - Mineralogy. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 3441 - Invertebrate Paleontology

4 sem. hrs. (3:2)
Morphology, classification, and paleoecology of fossil invertebrates. Applications to marine geology including paleoceanography, stratigraphy, economic geology. Field trip to Texas invertebrate fossil beds. Prerequisite: GEOL 1404 or permission of instructor. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 3442 - Geomorphology

4 sem. hrs. (3:2)
Study of landscapes and landforms at the surface of the Earth, and the processes and mechanisms by which they are developed. Prerequisite: GEOL 1403 or permission of instructor. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 3443 - Environmental Geology

4 sem. hrs. (3:2)
Study of the relationships of humans to Earth's physical environment. Geologic aspects of waste disposal, resources, conservation, land reclamation, geologic hazards, and land-use planning. Prerequisite: GEOL 1403, and science major or minor, or permission of instructor. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 3490 - Selected Topics

1-4 sem. hrs.
May be repeated for credit if topics are significantly different. Subject materials variable. Faculty approval required.

GEOL 4050 - Geology Field Safety Seminar

0 sem. hrs.
Restricted to geology majors attending field camp. Students required to meet with geology program coordinator prior to registration for this course.

GEOL 4311 - Paleoclimatology

3 sem. hrs. (3:0)
Reconstruction of Earth's climate system through time using natural archives and proxy evidence. Focus is mostly towards the Quaternary, though longer time spans will be considered, too. Mixed format with lectures, hand-on activities involving paleoclimate data sets, and seminar-style readings and discussions. Prerequisites:GEOL 1404 - Historical Geology , GEOL 3441 - Invertebrate Paleontology

GEOL 4316 - Marine Geoscience

3 sem. hrs. (3:0)
Introduction to the geology of the marine environment. Review of plate tectonic processes relevant to the evolution of continental margins and plate boundaries; geophysics and ocean morphology; geology of ocean crust; controls on the types, origin, and distribution of marine sediments; marine geochemistry; nearshore geological processes and the continental shelf; introduction to paleoceanography; global paleoceanographic evolution; critical events in ocean history. Special focus on the Gulf of Mexico. Prerequisites: GEOL 1403 - Physical Geology GEOL 1404 - Historical Geology CHEM 1411 - General Chemistry I CHEM 1412 - General Chemistry II.

GEOL 4321 - Introduction to Soil and Groundwater Restoration

3 sem. hrs. (3:0)
Introduction to methods for restoring contaminated soil and groundwater by examining the factors and processes influencing the

efficacy of remediation systems. An emphasis will be placed on the scientific principles upon which soil and groundwater remediation is based. Prerequisites: GEOL 1403 - Physical Geology , CHEM 1411 - General Chemistry I , CHEM 1412 - General Chemistry II, GEOL 3443 - Environmental Geology or equivalents, and/or with instructor's permission.

GEOL 4322 - Geophysics

3 sem. hrs. (3:0)
Introduction to quantitative techniques to assess physical properties and processes of the Earth. Topics include earthquake seismology, refraction and reflection seismology, gravimetry, magnetism, electrical methods, and radioactivity of Earth materials. Application of geophysical methods to the study of the Earth, in oil and gas exploration, and in economic and environmental geology. Prerequisites: GEOL 4421, PHYS 1401 or 2425, PHYS 1402 or 2426, MATH 2413, or permission of instructor.

GEOL 4326 - Field Seminar in Geology

3 sem. hrs. (1:4)
Designed to prepare students for summer field camp. Basic techniques of geologic mapping in the field, data analysis and interpretation, and report writing. Prerequisites: GEOL 4411 and GEOL 4421. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 4411 - Sedimentation and Stratigraphy

4 sem. hrs. (3:2)
Composition and origin of sediments and sedimentary rocks. Description and classification of rocks in hand specimen. Principles of stratigraphy, including stratigraphic units and correlation. Facies models for major depositional systems. Field trips. Prerequisites: GEOL 1403, GEOL 1404, GEOL 3411 (may be taken concurrently) and GEOL 3442, or permission of instructor. (May be taken for graduate credit.) SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 4415 - Economic Geology

4 sem. hrs. (3:2)
Study of geologic and tectonic parameters of mineral and metals formation. Ore geology and geochemistry. Mining, processing, fabrication, and marketing of natural resources. Field trip to mining operations. Prerequisites: GEOL 1403 and GEOL 3411. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 4416 - Introduction to Geochemistry

4 sem. hrs. (3:2)
Introductory study of the Earth processes using principles of chemical equilibrium, thermodynamics, isotope geochemistry and organic geochemistry. Applications of low-temperature geochemistry to geologic problems. Prerequisites: CHEM 1411, CHEM 1412, MATH 2413, GEOL 3411 and/or with instructor's permission. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course.

GEOL 4421 - Structural Geology

4 sem. hrs. (3:2)
Geometric and quantitative description of deformation of the Earth's crust, mechanics of brittle and crystal-plastic deformation processes of Earth materials, introduction to continuum mechanics of geologic systems, crustal deformation from micro-scale to global tectonics. Laboratory introduces principles of three-dimensional data representation and analysis, geologic map interpretation, cross-section techniques, and problems in stress and strain analysis. Prerequisites: GEOL 3411, MATH 2413, PHYS 1401 or 2425. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 4430 - Internship in Geology

1-4 sem. hrs. (Independent Study)
One to four semester hours of credit may be earned by working in an internship position in industry, with local government, private firm, or independent geologist. Prerequisite: Junior or Senior geology majors only; requires approval of the geology faculty. May be repeated for credit, but only four semester hours will count towards degree.

GEOL 4436 - Introduction to Petroleum Geology

4 sem. hrs. (3:2)
Basic concepts of petroleum geology and techniques used in the exploration and production of hydrocarbon systems. Lectures and lab exercises will cover principles of stratigraphy, sedimentology, hydrocarbon generation, hydrocarbon-trapping mechanisms, reservoir characterization, seismic interpretation, well-log interpretation, and geologic risk analysis. Prerequisites: GEOL 4411 (may be taken concurrently). Recommended: GEOL 4322 and GEOL 4421. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 4444 - Hydrogeology

4 sem. hrs. (3:2)
Introduction to the fundamentals of groundwater and surface water flow; well hydraulics and evaluation of groundwater as a resource; chemical properties of groundwater and groundwater contamination; groundwater and the environment; and groundwater modeling. This course also examines some of the techniques associated with field hydrogeology and laboratory methods in hydrogeology. Prerequisites: GEOL 1403, PHYS 1401 or 2425, and MATH 2413, or permission of instructor. (May be taken for graduate credit.) SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

GEOL 4490 - Selected Topics

1-4 sem. hrs.
May be repeated for credit if topics are significantly different. Subject materials variable. Faculty approval required.

GEOL 4496 - Directed Independent Study

1-4 sem. hrs.
Requires a formal proposal of study to be completed in advance of registration and to be approved by the supervising faculty, the chairperson, and the Dean of the College.

GEOL 4650 - Field Geology

6 sem. hrs. (0:12)
Field course involving practical application of geologic principles to field problems. Locations visited and material covered depends on hosting institution. Generally should include: mapping and outcrop data collection; measurement of stratigraphic sections; mapping and preparation of geologic cross-sections; preparation of geologic reports. Prerequisites:as required by hosting institution; generally includes: GEOL 3326 - Introduction to Geological Field Methods , GEOL 3414 - Igneous and Metamorphic Petrology , GEOL 3441 - Invertebrate Paleontology , GEOL 4411 - Sedimentation and Stratigraphy , GEOL 4421 - Structural Geology. SMTE 0094 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

German

GERM 1311 - German I

3 sem. hrs. TCCNS Equivalent: GERM 1311
Introduction to listening, speaking, reading, and writing skills within a German cultural framework. For students without previous knowledge of the language. (Language laboratory required. One hour per week.) A lab fee is required for this course.

GERM 1312 - German II

3 sem. hrs. TCCNS Equivalent: GERM 1312
Continued practice in listening, speaking, reading, and writing skills within a German cultural framework. German 1311 or equivalent required. (Language laboratory required. One hour per week.) A lab fee is required for this course.

GERM 2311 - German III

3 sem. hrs. TCCNS Equivalent: GERM 2311
Reviews German grammar through oral and written practice with emphasis on language proficiency. Utilizes cultural readings in German to expand vocabulary and knowledge of the German culture.

GERM 2312 - German IV

3 sem. hrs. TCCNS Equivalent: GERM 2312
Continued advanced development and review of all language skills within a German framework with an emphasis in the linguistic and cultural perspective. Successful completion of 2311 is required to receive credit for 2312.

Geographic Information Science

GISC 1301 - Physical Geography and Mapping

3 sem. hrs. (2:2) TCCNS Equivalent: GEOG 1301
The goal of this course is to encourage you to think geographically, examining the interactions between physical systems and human activities. Introduction to topics covered include elements of Physical Geography (studies of atmosphere, ocean and land surface environments), Geographic Information Systems (computer systems that capture, analysis, and display of geographic information), and human environmental interactions. (Students may not receive credit for both this course and GEOG 1301 - Physical Geography and Mapping .) This course counts toward the life and physical sciences foundational component area of the University Core Curriculum.

GISC 1336 - Digital Drafting and Design

3 sem. hrs. (2:2)
An introduction to graphic and drafting principles and practices in surveying and mapping science. This course includes the development of the basic drafting skills needed to produce surveying plats and graphical presentations. The elements of descriptive geometry are addressed. A major component of the course is an introduction to the fundamentals of computer-aided drafting and design (CADD).

GISC 1470 - Geospatial Systems I

4 sem. hrs. (3:3)
Introduction to geographic information systems (GIS) and its theoretical foundations. Topics covered include vector and raster data models, acquisition and manipulation of data, cartography, current topics, data quality, and basic spatial analysis. Principles and uses of GIS software also covered.

GISC 2250 - Field Camp I

2 sem. hrs. (0:6)
A one-week field camp with intensive field data collection and computations. Traversing between control points. Digital contour data and leveling control. Detail spatial data by total station. Construction set out using total station and steel band. Taken during the sophomore or junior year. Prerequisite: GISC 2470.

GISC 2301 - Geospatial Systems II

3 sem. hrs. (2:3)
An intermediate level course in the concepts and applications of geographic information systems (GIS). Topics covered include spatial database design and management, raster analysis, terrain mapping, analysis, and applications.
Prerequisite: GISC 1470

GISC 2438 - Geospatial Software Systems I

4 sem. hrs. (3:3)
Introduction to the design and development of GIS software to solve spatial problems. Topics covered include programming basics, design and implementation common tasks in GIS applications. Prerequisites:GISC 1470 - Geospatial Systems I and COSC 1435 - Introduction to Problem Solving with Computers I .

GISC 2470 - Geospatial Plane Measurement I

4 sem. hrs. (2:4)
Historical introduction to field measurement and mapping; distance measurement using electronic distance meters; calibration and reduction. Leveling instruments; principles, construction, testing and adjustment; ancillary equipment. Optical and electronic theodolites. Traverse computations and adjustment. Coordinate systems. Map projections. Prerequisite:GISC 1336 - Digital Drafting and Design and co-requisites MATH 1316 - Trigonometry or MATH 2413 - Calculus I.

GISC 3300 - Geospatial Mathematical Techniques

3 sem. hrs. (3:0)
Characteristics of geographic/spatial information; overview of relevant sections of numbers, algebra and geometry, plane and spherical trigonometry, matrices, determinants and vectors, curves and surfaces, integral and differential calculus, partial derivatives, with an emphasis on geospatial applications. Concepts of geospatial coordinate systems and geospatial coordinate transformations; overview of spatial statistics and best-fit solutions with geospatial applications. Prerequisite: MATH 2413 and MATH 2414

GISC 3325 - Geodetic Science

3 sem. hrs. (2:2)
History of geodetic measurement. Description of the geodetic model of the earth. Relationship between the ellipsoid, geoid, and earth's surface. Measurement of long baselines. Gravity and the geoid. Relationship between terrestrial observations and grid coordinates. Prerequisite: GISC 2470.

GISC 3412 - Geospatial Plane Measurement II

4 sem. hrs. (2:4)
Principles and reduction of observations and errors in spatial measurement. Techniques of horizontal and vertical angle measurement for precise positioning. Trigonometric heighting and vertical staff tacheometry. Setting out of structures. Design and computation of horizontal and vertical curves. Prerequisite: GISC 2470.

GISC 3420 - Geospatial Software Systems II

4 sem. hrs. (3:3)
Advanced programming course focusing on the design and implementation of GIS scripts and GIS web applications. Topics covered include GIS web applications, web mashups, GIS scripts, GIS tool creation, and advanced user interface design and implementation. Prerequisite: GISC 2438.

GISC 3421 - Visualization for GIS

4 sem. hrs. (3:3)
Basic elements of thematic cartography, cartographic theory, and cartographic projections. Integration of cartographic principles with GIS visualization. Principles of map design with GIS data. Prerequisites: GISC 1470 and MATH 2413 or MATH 1316.

GISC 4280 - Geospatial Systems Internship

2 sem. hrs. (0:6)
Internship education requires work with approved Geospatial Systems related industry employer. Students provide weekly written reports and final presentation to program at the end of internship. Must have completed 60 semester hours before attempting. Offered on a satisfactory/unsatisfactory (S/U) basis only.

GISC 4305 - Legal Aspects of Spatial Information

3 sem. hrs. (3:0)
Legal ownership of spatial data and information collected in the public sector. Public access to large digital databases. Copyright law as applied to spatial data. Legal issues related to property boundaries, statutory boundaries, voter district boundaries, and jurisdictional boundaries. Government fees and charges for access to spatial data. Social and economic value of spatial data. Prerequisite: GISC 2470.

GISC 4315 - Satellite Positioning

3 sem. hrs. (2:2)
Global reference systems. Use of satellite for navigation and positioning systems. History and review of satellite positioning systems. Measurement techniques using GPS. Point, differential, and kinetic positioning techniques. Error sources in satellite positioning. Future trends in satellite positioning technology. Prerequisites: GISC 2470 and MATH 2413.

GISC 4318 - Cadastral Systems

3 sem. hrs. (2:2)
Land ownership recording systems used in Texas and U.S. Investigation and research for artificial and natural boundaries. Title searches at county court house, title plants, and the Texas General Land Office. Other sources for cadastral research. Riparian and littoral boundaries. Boundary marking and preparation of cadastral plans. Metes and bounds descriptions. Writing field notes. Urban and rural cadastral issues. Use of coordinate systems in cadastral mapping. Prerequisite: GISC 2470.

GISC 4320 - Hydrography

3 sem. hrs. (2:2)
Introduction to offshore and inshore hydrographic mapping. Tidal datums and their computation. Review of hydrographic and nautical charts. Electronic position finding and bathymetric data collection. Echo sounding, side scan sonar. Seafloor mapping and underwater locating. Beach (combined land and hydrographic) mapping. Prerequisites: GISC 2470 and MATH 2413.

GISC 4326 - Geomatics Professional Practice

3 sem. hrs. (2:2)
An intensive one-week summer course presented by practicing geomatics professionals covering many of the aspects of operating a professional surveying practice in the State of Texas. Topics cover surveyor responsibility and liability, the surveyor in court, standards of practice, surveying mathematics, Texas coordinate system, celestial observations, and project control. Prerequisite: GISC 2250.

GISC 4335 - Geospatial Systems III

3 sem. hrs. (2:2)
Advanced spatial analysis and modeling in GIS. Topics covered include exploratory analysis of spatial data, network analysis, spatial point patterns, area objects and spatial autocorrelation, and spatial interpolation. Also covers new approaches to spatial analysis. Prerequisite: GISC 2301 - Geospatial Systems II and GISC 3421 - Visualization for GIS .

GISC 4340 - Geospatial Computations and Adjustment

3 sem. hrs. (3:0)
Theory of least squares adjustment of spatial data. Use of matrices for the solution of equations. Propagation of variances and

statistical testing of adjustment solutions. Error ellipses and confidence intervals. Use of spatial data reduction software. Prerequisites: GISC 2470, MATH 3342, and GISC 3300.

GISC 4350 - Field Camp II

3 sem. hrs. (0:6)
A one-week field camp undertaking projects in cadastral, engineering, hydrographic, and geodetic positioning. Reduction of digital field data to produce final plans and reports. Taken during the senior year. Prerequisites: GISC 3412 - Geospatial Plane Measurement II and GISC 4318 - Cadastral Systems and GISC 2250 - Field Camp I.

GISC 4351 - Geospatial Systems Project

3 sem. hrs. (0:6)
Requires a formal proposal of study to be completed in advance of registration and to be approved by the supervising faculty. Prerequisite: GISC 4350 - Field Camp II and GISC 4335 - Geospatial Systems III

GISC 4371 - History of Texas Land Ownership

3 sem. hrs. (3:0)
History of land and legal systems in Texas, including influences by Spain, Mexico, the Republic of Texas, and the State of Texas. Nature of land development in Texas. History of surface and mineral land tenure in Texas. Evolution of principles of land ownership boundary determination in Texas. Prerequisite: GISC 3412 - Geospatial Plane Measurement II

GISC 4431 - Remote Sensing

4 sem. hrs. (3:3)
Introduction to the acquisition, manipulation, and interpretation of global data sets acquired in the visible to microwave portion of the electromagnetic spectrum from orbital platforms. Rudimentary programming assignments will be used to demonstrate data structures, data normalization, and information extraction. Prerequisites: GISC 3300 - Geospatial Mathematical Techniques and PHYS 2425 - University Physics I.

GISC 4590 - Selected Topics

1-5 sem. hrs.
May be repeated for credit depending on topic. Variable content. Offered on request.

GISC 4596 - Directed Independent Study

1-5 sem. hrs.
See College description. Offered on request. May be repeated for credit.

GISC 4690 - Co-operative Education

1 sem. hrs.
Co-op education allows students to take time off their full-time studies to gain valuable experience-based learning with employers willing to put on students for a semester (14 weeks), six months, or over the summer. The Co-op program allows students to maintain their full-time status as a student (continue health insurance coverage with parents, not effect student loan repayment, access to college activities, etc.) while undertaking work in their field of interest. The Co-op program is a partnership between the employer, the student, and the university. Prerequisite: acceptance by Cooperative Education Coordinator.

History

HIST 1301 - U.S. History to 1865

3 sem. hrs. TCCNS Equivalent: HIST 1301
A survey of the political, social, economic, military, cultural and intellectual history of the United States from 1492 to 1865. Satisfies the university core curriculum requirement in U.S. History.

HIST 1302 - U.S. History Since 1865

3 sem. hrs. TCCNS Equivalent: HIST 1302
A survey of the political, social, economic, military, cultural and intellectual history of the United States from 1865 to the present. Satisfies the university core curriculum requirement in U.S. History.

HIST 2311 - Western Civilization I

3 sem. hrs. TCCNS Equivalent: HIST 2311
Survey of the cultures and civilizations of the Ancient Mediterranean world and the political, social, economic, military, cultural, and intellectual influences shaping the emergence and development of Europe to 1500.

HIST 2312 - Western Civilization II

3 sem. hrs. TCCNS Equivalent: HIST 2312
A survey of the political, social, economic, military, cultural, and intellectual development of Europe from 1500 to the present.

HIST 3301 - History of World Religions

3 sem. hrs.
Surveys the key beliefs, practices, rituals, figures, and historical developments of the world's major religious traditions, including Hinduism, Buddhism, Confucianism, Judaism, Christianity, Islam, and New Age religions. Gives particular attention to their encounter with modernity and their complicated place in today's global, diverse, post-modern world.

HIST 3302 - Latin American History

3 sem. hrs.
An overview of important Latin American themes from 1400 to the present.

HIST 3315 - Europe 1750-1815

3 sem. hrs.
Explores the processes which contributes to the establishment of a new political, economic, and social order in Europe. The course includes an in-depth focus upon the causes and consequences of the French Revolution as well as an examination of the European response to Napoleon.

HIST 3317 - Europe 1815-1914

3 sem. hrs.
The evolution of European industrial society from the Congress of Vienna to the outbreak of World War I. Themes include changes in the nature of work and family life, urbanization, and the emergence and growth of liberalism, socialism, nationalism, and romanticism as competing ideologies.

HIST 3319 - Europe 1914 to the Present

3 sem. hrs.
Political, social, economic and cultural developments since 1914: includes the impact of World War I, the Russian Revolution, Fascism, the origins of the Cold War, the tension between European unification and growing ethnic tensions and the dissolution of the Soviet empire.

HIST 3320 - Colonial and Revolutionary U.S.

3 sem. hrs.
Traces regional economic, social, and political change in the Americas from 1607 to the end of the Revolution.

HIST 3321 - The Early American Republic

3 sem. hrs.
This course examines American history from the end of the revolutionary war to 1850. Political, economic, and social issues

including, but not limited to, the creation of the Constitution, the development of the first and second party systems, the market revolution, antebellum reform, the Old South, and westward expansion.

HIST 3323 - Civil War and Reconstruction

3 sem. hrs.
Background and causes of the Civil War; military, political, diplomatic, and economic developments during the War; Reconstruction and post-war adjustments.

HIST 3324 - U.S. Gilded Age and Progressive Era

3 sem. hrs.
An examination of the dramatic period when the United States definitively settled the remaining portions of the continent and decisively moved towards becoming an industrial, urban nation with world-wide economic and political influence.

HIST 3325 - Emergence of Modern U.S.

3 sem. hrs.
Study of American life from World War I through World War II. Topics include America's rise to a world power, the social, cultural, and political effects of corporate enterprise, urbanization, and immigration, women’s suffrage, the Twenties, and the New Deal.

HIST 3326 - U.S. Since 2nd World War

3 sem. hrs.
A study of American life and development as a world power since World War II.

HIST 3331 - Texas History

3 sem. hrs.
Spanish colonial period, Mexican statehood, independence, the development of the Republic, annexation and growth as a state.

HIST 3335 - The U.S. Urban Experience

3 sem. hrs.
A general survey of the social, cultural, and political history of the American city, with particular emphasis on Corpus Christi and the ways our city illustrates these larger trends.

HIST 3340 - Modern Asia

3 sem. hrs.
This course will examine Asia from 1600 to the present. Topics include politics, the nation state, colonialism, empire, war, nationalism, the Cold War and revolution, all in a historical context.

HIST 3345 - American Environmental History

3 sem. hrs.
Examines the role of nature in the nation's past, looking beyond more traditional historical topics to discover how the environment has shaped society and the ways in which humans, in turn, have shaped nature throughout American history.

HIST 4320 - U.S. Cultural Experience

3 sem. hrs.
Explores ways that the myriad groups who have made up American society from the colonial period to the "information age" understood and expressed themselves and related to each other. (The chronological scope of this course may vary.)

HIST 4325 - U.S. Business and Labor History

3 sem. hrs.
The development of American business and its effect on the structure and experience of work from the age of the artisan through the period of the multinational corporation.

HIST 4327 - U.S. Modern Popular Culture

3 sem. hrs.
The historical development of modern popular culture—including television, movies, fiction, newspapers, music and consumption—and its effect on the structure and experience of U.S. society and work from the nineteenth century to the present.

HIST 4335 - The Military and United States History

3 sem. hrs.
The development of U.S. military strategy and policy from the Colonial Wars through Vietnam.

HIST 4336 - Mexican American History

3 sem. hrs.
Spanish and Mesoamerican backgrounds, conquest and mestizaje, settlement of Aztlán, interaction with Anglo-Americans, 20th

century immigration, urbanization, identity, the Chicano Movement, and Mexican American organizational/political development.

HIST 4337 - United States Women's History

3 sem. hrs.
Themes include transformations in the notion of womanhood and of sexual differences, changes in the structure, function, and concept of "family" and "household," and historical factors that have shaped women's role in the work force and public life.

HIST 4340 - European Women’s History

3 sem. hrs.
Study of the experiences of European women from the 18th to the 20th centuries. Also addresses the role that gender has played in the development of modern European societies. Some topics covered are women and the French Revolution, gender and class in industrial Europe, feminism and suffrage, and women and fashion.

HIST 4342 - The Holocaust

3 sem. hrs.
Examines the Holocaust by exploring the role of racism and anti-Semitism, the rise of Nazi policies, Jewish responses and resistance to them, deportation and genocide, the role of war, and the aftermath and memory of an event “beyond human imagination.”

HIST 4345 - European Thought and Culture, 1750-present

3 sem. hrs.
Survey of the major European intellectual and cultural movements from the Enlightenment to the present. Broader than a traditional course in intellectual history, special attention will be given to the emergence and development of the concepts of “modernity” and the challenges of “postmodernism.”

HIST 4346 - The Search for Modern China: From 1600 to the Present

3 sem. hrs.
This course surveys modern Chinese history from the late Ming dynasty to the present, with an emphasis on the late 19th and 20th centuries. Topics include empire, colonialism, nationalism, the nation state, modernization, revolution and the Cold War, all in a historical context.

HIST 4350 - Narratives of World War II in the Pacific

3 sem. hrs.
Examines how the relations between history, memory, and contemporary politics in post-WWII U.S. and Asia-Pacific have shaped the meaning of various contentious issues related to the Pacific War-such as war origins and responsibility, atrocities, racism, reparations, and nationalism-in textbooks, monuments, literature, art, films, political debates, exhibits, commemorative events, and scholarly works in different social and temporal contexts.

HIST 4373 - Mexico: the Colonial Period

3 sem. hrs.
Outlines the colonial foundations of modern Mexico by tracing economic, social, and political change from European contact to independence. Prerequisite: Junior standing or above

HIST 4374 - Mexico: the National Period

3 sem. hrs.
Traces economic, social, and political change in Mexico from independence to the present. Prerequisite: Junior standing or above

HIST 4385 - Historical Research and Writing

3 sem. hrs.
The study and writing of history, with emphasis on historical analysis, research, and writing. Designed as the capstone course for history majors and prospective social science teachers. This course will feature a senior research paper, and should be taken during the student's final year of undergraduate study. Required of all history majors and those seeking social studies teaching certificates.

HIST 4390 - Topics in History

3 sem. hrs.
Study of significant periods, countries, regions, or themes in history. May be repeated when topics vary. Offered on sufficient demand.

HIST 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application.

HIST 4398 - Applied Experience

3 sem. hrs.
See College description. Offered on application.

Health Sciences

HLSC 3300 - The Health Care System

3 sem. hrs. (3:0)
Addresses how the U.S. Health Services System is organized, how health services are delivered, and the mechanisms by which health services are financed in the United States. Provides an undergraduate level overview of the U.S. health services system and its key components, including health system resources, health system foundations, health system resources, health system processes, and health system outcomes. Should be taken during first semester of Health Sciences courses.

HLSC 3310 - Epidemiology

3 sem. hrs. (3:0)
Application of epidemiologic methods and procedures to the study of the distribution and determinants of health and diseases, morbidity, injuries, disability, and mortality in populations. Epidemiologic methods for the control of conditions such as infectious and chronic health hazards, and unintentional injuries are discussed. Other topics include quantitative aspects of epidemiology, for example, data sources, measures of morbidity and mortality, evaluation of association and causality, and study design.

HLSC 3320 - Health Care Marketing

3 sem. hrs. (3:0)
An introductory study of the essentials of marketing within the dynamically evolving health care system

HLSC 3330 - Financial Management in Health Care

3 sem. hrs. (3:0)
Introduction to health care financial management including selected topics from financial accounting, management accounting, finance, internal audit and personal finance. Health care payment and classification systems will be studied and practical applications will be emphasized.

HLSC 3340 - Quantitative Methods in Health Care

3 sem. hrs. (3:0)
Introduction to quantitative methods applicable to health care. Statistics, research methods and operations management are examined and applied to healthcare organizations Prerequisite: MATH 1442, 1342, or 2342

HLSC 3350 - Information Systems and Technology in Health Care

3 sem. hrs. (3:0)
Provides an overview of the role technology plays in management of health care information. Emphasis is placed on system analysis, techniques, and skills used in information management. Satisfies university computer literacy requirement

HLSC 3370 - Complementary and Alternative Medicine

3 sem. hrs. (3:0)
Introduction to complementary and alternative medicine with an emphasis on related economic, political, legal, and social issues.

HLSC 4300 - Management and Organization Behavior in Health Care

3 sem. hrs. (3:0)
Introduction to principles of management and organization behavior in healthcare with emphasis on human resource management topics and issues.

HLSC 4310 - Health Law

3 sem. hrs. (3:0)
Introduction to law and the legal system with special emphasis on health related topics including quarantine and key health law issues.

HLSC 4340 - Quality Management and Evaluation in Health Care

3 sem. hrs. (3:0)
Introduction to principles of quality assessment and outcome management in healthcare organizations.

HLSC 4390 - Selected Topics in Health Science

1-3 sem. hrs.
Selected topics for special study related to health science issues. May be repeated for credit when topics vary. Not required for the BSHS but may be used to fulfill elective requirement.

HLSC 4396 - Directed Independent Study

1-3 sem. hrs.
Course not required for the BSHS but may be used to fulfill elective requirement. Permission of Instructor required.

HLSC 4680 - Practicum

6 sem. hrs. (1:15)

The Health Science Practicum is an institution-based project course requiring the student to complete on-site practicum hours. It provides a structured and guided learning environment to help students make the most of their practicum experience. Course components facilitate students' professional development, focusing on the transition from the role of a student to the role of a healthcare professional. Prerequisites: Completion of 3000 level courses or last semester of enrollment. Prerequisites: Completion of 3000 level courses or last semester of enrollment.

Health

HLTH 2370 - Introduction to Health

3 sem. hrs.
Concepts essential to understanding the health profession: competencies and career opportunities for professional health educators in school and community settings.

HLTH 3342 - Sexuality in Health Education

3 sem. hrs.
Many aspects of human sexuality; physiology and function of human reproductive system, factors involved in learning sex roles, biological and emotional motivations associated with the sexual aspects of life and their relationship to marriage and family planning.

HLTH 3353 - Substance Abuse and Health

3 sem. hrs.
A basic knowledge and understanding of the physiological, psychological, social, environmental and behavioral aspects of drug use and abuse in this country to prepare students to make mature and responsible decisions regarding drug use and to assist others in making similar decisions affecting drug-taking behavior.

HLTH 3361 - Consumer Health

3 sem. hrs.
This course is designed to provide general concepts, strategies and sources of information in selecting health products and services.

HLTH 3371 - Community and Environmental Health

3 sem. hrs.
An overview of the function, organization, and leadership of health agencies at the national, state, and local levels as well as the dimensions of health affected by our environment.

HLTH 4308 - Organization and Administration of Health

3 sem. hrs.
Theory and practice in the development and use of creative and traditional health education strategies in schools, community settings; emphasis is given to cognitive, affective and behavioral teaching strategies.

HLTH 4310 - Exercise and Health

3 sem. hrs.
Interdisciplinary planning and implementation of exercise programs in school, community and worksite settings; applied exercise physiology, nonclinical exercise assessment; exercise-education strategies to promote adherence in health related exercise programs.

HLTH 4325 - Program Development and Evaluation

3 sem. hrs.
Theory and practice in evaluation of health programs in school and community; analysis of test results; evaluation of standardized health tests.

HLTH 4350 - Creative Life Styles for Wellness

3 sem. hrs.
A course supporting knowledge, attitudes, skills, and behaviors in the five wellness dimensions physical, social, emotion, intellectual, and environmental. Special emphasis will be placed on personal enrichment.

HLTH 4696 - Directed Individual Study

1-6 sem. hrs.
May be repeated for credit when the topic varies. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

Honors

COMM 1315.H01 - Honors Public Speaking

3 sem. hrs.

A study of the art of public speaking and the tools employed by the speaker to build his/her craft. Basic public speaking techniques and terminology will be emphasized. Satisfies the oral communication component of the University core curriculum.

ECON 2302.H01 - Microeconomics Principles

3 sem. hrs.

Demand and supply, consumer behavior, elasticity, production costs, competitive and non-competitive market structures and models of the modern market price system are analyzed. Emphasis on use of marginal analysis to determine prices, output, income and economic welfare in a market price system. Satisfies the economics component of the university core curriculum.

HONR 1101 - Honors Freshman Seminar

1 sem. hrs.
A seminar covering basic study skills, time-management skills, self-discipline issues, course problems as they arise, and discussions on integrative essays and books. Replaces the first year seminar component of the University core curriculum.

HONR 1102 - Honors Freshman Seminar

1 sem. hrs.
A seminar covering basic study skills, time-management skills, self-discipline issues, course problems as they arise, and discussions on integrative essays and books. Replaces the first year seminar component of the University core curriculum.

HONR 2101 - Sophomore Seminar

1 sem. hrs.
A seminar devoted to reading and discussing important works in various fields which are combined, pending funding, with field-trips to lectures, presentations, museums, and demonstrations.

HONR 2102 - Sophomore Seminar II

A seminar devoted to reading and discussing important works in various fields which are combined, pending funding, with field-trips to lectures, presentations, museums, and demonstrations.

HONR 3101 - Junior Seminar

1 sem. hrs.
A seminar built on refining skills in analysis and developing research topics for the Project of Excellence, with a special emphasis the second semester on application for graduate and professional school as appropriate.

HONR 3102 - Junior Seminar II

1 sem. hrs.
A seminar built on refining skills in analysis and developing research topics for the Project of Excellence, with a special emphasis the second semester on application for graduate and professional school as appropriate.

HONR 3340 - Academic and Field Research

3 sem. hrs.
examination of the assumptions and questions underlying research methods across disciplines, with special emphasis on how methodologies from different fields (such as science and humanities) can complement each other. The course will involve experts from across the university who will address issues such as 1) the distinct qualities of quantitative and qualitative research, 2) current uses of surveys, interviews, and market research, 3) the construction of new knowledge in various disciplines, from problem to publication, 4) the critical use and evaluation of electronic and print resources, archival materials, government documents, and scholarly list serves. Students will be expected to prepare a review of literature focusing on an issue or problem in their field of study.

HONR 3390 - Topics in the Humanities

3 sem. hrs.
Significant contemporary issues in arts, humanities, and education. Subject matter rotates and is determined by the honors director and the Honors Council through competitive submission from university faculty based on the course's interdisciplinary design. May be repeated when topics vary.

HONR 3490 - Topics in the Sciences

1-4 sem. hrs.

Significant contemporary issues in the disciplines of sciences, health sciences, social sciences, and business. Subject matter rotates and is determined by the honors director and the Honors Council through competitive submission from university faculty based on the course's interdisciplinary design. May be repeated when topics vary.

HONR 3491 - Science and Technology for Decision Makers

4 sem. hrs.
An honors science course team-taught by a mathematician, a physicist, a chemist, and a biologist on the relevance and interdisciplinary nature of science, the formal tools and techniques of critically evaluating scientific research, and the use of qualitative and quantitative data in the application of science and technology.

HONR 4101 - Senior Seminar

1 sem. hrs.
A seminar devoted to the balanced execution of projects of excellence, including peer draft review, group study sessions, mock presentations, and research analysis as appropriate.

HONR 4102 - Senior Seminar II

1 sem. hrs.
A seminar devoted to the balanced execution of projects of excellence, including peer draft review, group study sessions, mock presentations, and research analysis as appropriate.

HONR 4390 - Seminar in the Humanities

3 sem. hrs.
Study of specialized topics and themes in arts, humanities, and education. May be repeated when topics vary.

HONR 4396 - Honors Directed Independent Study

1-3 sem. hrs.
Individual supervised study / research. Requires a formal proposal of study to be completed in advance of registration to be approved by a supervising faculty member and the Honors Council, and result in a written product submitted to the faculty member and Honors Program office. For students with junior standing or above. Only 3 semester hours of Honors independent study credit may be counted toward the Honors graduation requirement.

HONR 4397 - Honors Internship

1-3 sem. hrs.
Practical experience in the student's major field. Activity must be connected to an academic research question and a body of knowledge that addresses some aspect of the activity to be undertaken. At the close of the internship, a written report and self-

assessment must be submitted to a supervising faculty member and the Honors Program office. Offered by pre-approved application to the Honors Council. For students with junior standing or above. Only 3 semester hours of Honors internship or applied experience credit may be counted toward the Honors graduation requirement.

HONR 4398 - Honors Applied Experience

1-3 sem. hrs.
Practical experience connected to the student's field of study, usually with a service or leadership component. Activity must be connected to an academic research question and a body of knowledge that addresses some aspect of the activity to be undertaken, and result in a written product submitted to a supervising faculty member and the Honors Program office. Offered by pre-approved application to the Honors Council and graded "credit" or "no credit." Applied experience courses will include no less than 45 hours (for one credit) and no more than 135 hours of work experience (for three credits). For students with junior standing or above. Only 3 semester hours of Honors applied experience credit may be counted toward the Honors graduation requirement.

HONR 4490 - Seminar in the Sciences

1-4 sem. hrs.
Study of specialized topics and themes in the sciences, health sciences, social sciences, and business. May be repeated when topics vary.

PHIL 2303.H01 - Honors Introduction to Logic

3 sem. hrs.

Basic principles and techniques used in understanding, constructing, and evaluating arguments. Topics covered may include formal methods of analyzing arguments, informal fallacies, scientific reasoning, and moral arguments.

PHIL 3340.H01 - Honors Professional Ethics

3 sem. hrs.
A rigorous and comprehensive study of theoretical and applied ethics with an emphasis on the application of ethical theory to clarify, explain, and resolve real-world ethical dilemmas. Satisfies the philosophy component of the University core curriculum.

Kinesiology

KINE 1101 - Beginning Racquetball

1 sem. hrs.
Instruction and practice in the skills, rules, and strategies of racquetball.

KINE 1102 - Swimming

1 sem. hrs.
Instruction and practice in the techniques, skills and safety practices for levels of swimming.

KINE 1103 - Badminton

1 sem. hrs.
Instruction and practice of badminton skills, rules and strategy.

KINE 1104 - Gymnastics

1 sem. hrs.
Skills, techniques, safety practices, rules and scoring criteria for gymnastics.

KINE 1105 - Sailing

1 sem. hrs.
Instruction and practice in skills and safety involved in sailing.

KINE 1106 - Weight Training

1 sem. hrs.
The study and practice of physiological principles related to training programs for the development of muscular strength and endurance.

KINE 1107 - Karate

1 sem. hrs.
Instruction and practice of contemporary techniques of karate.

KINE 1108 - Strength Conditioning for Women

1 sem. hrs.
The study and practice of physiological principles relating to training programs for the development of muscular strength and endurance for women.

KINE 1109 - Rhythmic Aerobics

1 sem. hrs.
A study of dance movement as it relates to physical fitness development.

KINE 1110 - Individual/Dual/Lifetime Sports

1 sem. hrs.
Instruction, participation, and practice in a variety of individual, dual, and lifetime sports.

KINE 1111 - Beginning Golf

1 sem. hrs.
The study of techniques and knowledge pertinent to the game of golf.

KINE 1112 - Personal Self Defense

1 sem. hrs.
Instruction and practice of contemporary techniques of self protection.

KINE 1113 - Tennis

1 sem. hrs.
Instruction and practice of techniques, skills, and strategy involved in tennis.

KINE 1114 - Volleyball

1 sem. hrs.
Instruction and practice of techniques, skills and strategy involved in volleyball.

KINE 1115 - Soccer

1 sem. hrs.
Instruction and practice of techniques, skills, and strategies involved in soccer.

KINE 1116 - Ranger Leadership Laboratory

1 sem. hrs.
Practical leadership and teamwork training in rappelling, rope bridges, weapons firing, map reading and land navigation, water safety, patrolling, and other ranger skills. Includes a weekend field trip where the techniques learned will be applied in competitive events. Cross listed with MSCI 1172. Prerequisite: approval of Professor of Military Science. May be repeated for credit.

KINE 1117 - Basketball

1 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in basketball.

KINE 1118 - Softball

1 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in softball.

KINE 1119 - Baseball

1 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in baseball.

KINE 1120 - Football

1 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in football.

KINE 1121 - Track and Field

1 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in track and field.

KINE 1122 - Non-traditional Team Sports

1 sem. hrs.
Instruction and practice of techniques, skills and instructional strategies involved in non-traditional team sports. Typical topics may include lacrosse, field/floor hockey, ultimate Frisbee, flickerball, cricket and team handball.

KINE 1123 - Beginning Rock Climbing

1 sem. hrs.
The study and practice of the technical and educational skills necessary to safely conduct rock climbing and climbing associated activities.

KINE 1124 - Beginning Jazz Dance

1 sem. hrs.
An examination of the basic steps (skills), movements, dance combinations and instructional practices that pertain to jazz dance. This course will also include multi-cultural application, history and choreography of jazz dance.

KINE 1130 - Beginning Fencing

1 sem. hrs.

Instruction and practice of the skills, techniques, equipment and safety as it pertains to fencing.

KINE 1131 - Yoga

1 sem. hrs.
Instruction and practice of Yoga postures, breathing, meditation and relaxation. May be repeated for credit by non-kinesiology majors. Materials fee required.

KINE 1132 - Fitness Walking

1 sem. hrs.
Instruction and practice of fitness walking.

KINE 1133 - Tai Chi

1 sem. hrs.
Instruction and practice in a short Taijiquan form and exercises. Solo and partner practice. An introduction to Chinese martial arts theory and practice. Introductory Qigong meditation practices for martial applications and health benefits.

KINE 1134 - Beginning Surfing

1 sem. hrs.
This course is designed to provide student with the skills and knowledge necessary to safely enjoy surfing activities. Through structured classroom lectures (including videos) and laboratory activities (beach program), the student will be introduced to the history of surfing, proper use of equipment, skill techniques of surfing, and environmental factors and issues specific to this sport.

KINE 1135 - Army Physical Fitness Training

1 sem. hrs.

Instruction and practice of the skills, techniques and fitness activities that are germane to typical Army training.

KINE 1136 - Pilates

1 sem. hrs. lab
Instruction and practice in the skills, techniques, and principles of Pilates with emphasis on the Classical Pilates matwork.

KINE 1151 - Scuba and Snorkeling

1 sem. hrs. TCCNS Equivalent: PHED 1151
Knowledge and techniques of snorkeling and scuba diving. Instruction will be directed toward obtaining a basic open water diver certification.

KINE 1222 - Basic Equestrian Skills

2 sem. hrs.
Instruction and practice of skills and abilities involved in basic horsemanship and equitation.

KINE 1320 - Introduction to Athletic Training

3 sem. hrs.
This course provides general knowledge of the athletic training profession, epidemiology of athletic injuries, the pre-participation physical exam, strength and conditioning of athletes, environmental concerns, protective equipment, emergency management of athletic injuries and sports nutrition. Materials fee required.

KINE 2101 - Teacher Development Practicum

1 sem. hrs. practicum
This course is designed to expose kinesiology majors with an EC-12 specialization to the teaching profession by working with and assisting cooperating physical education instructors who teach activity classes for the Department of Kinesiology. This will include, but is not limited to, assisting with planning lessons, teaching skills/games/activities, and evaluation of knowledge and skills. Prerequisite: KINE 2317.

KINE 2102 - Conditioning Swimming

1 sem. hrs. lab
The course addresses the principles and practice of conditioning swimming and other fitness activities in an aquatic environment. Pre-requisite: 800m swim test where student demonstrates competency in the front crawl, back, breast, and butterfly strokes.

KINE 2107 - Intermediate Karate

1 sem. hrs.
Instruction and practice in intermediate karate form and exercises. Solo and partner practice. Instruction and practice of contemporary techniques of karate. Prerequisite: KINE 1107 or permission by instructor.

KINE 2113 - Intermediate Tennis

1 sem. hrs. lab
Intermediate tennis is designed to provide instruction and practice of techniques, mental skills, and strategy involved in tennis at a level beyond what is taught at the beginning level tennis course (KINE 1113). Pre-requisite: KINE 1113 or instructor approval.

KINE 2134 - Advanced Tai Chi

1 sem. hrs.
Instruction and practice in advanced Taijiquan form and exercises. Solo and partner practice. May be repeated for credit by non-kinesiology majors. Prerequisite: KINE 1133 or permission by instructor.

KINE 2135 - Intermediate Surfing

1 sem. hrs.
This course is designed to provide students with the skills and knowledge necessary to safely enjoy intermediate surfing activities. Through structured classroom lectures (including videos) and beach laboratories the student will be introduced to: proper use of equipment, surfing history, environmental issues and the ‘Goals To Success In Surfing’. Prerequisite: KINE 1134 or instructor-approved demonstration of basic surfing skills.

KINE 2191 - Clinical Experience in Athletic Training I

1 sem. hrs.
A field based professional experience to provide the student the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession. Prerequisites: Admission to the athletic training program and concurrent enrollment in KINE 1320.

KINE 2192 - Clinical Experience in Athletic Training II

1 sem. hrs.
A field based professional experience to provide the student the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession. Prerequisites: Admission to the athletic training program and concurrent enrollment in KINE 3318.

KINE 2214 - Coaching of Volleyball

2 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in volleyball. Additional information will cover skill development strategies, class/group management, risk management, budget, fund raising and public/family relations.

KINE 2215 - First Aid and Safety

2 sem. hrs. TCCNS Equivalent: PHED 1206
Basic CPR and first aid instruction leading to American Red Cross certification.

KINE 2216 - Coaching of Soccer

2 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in soccer. Additional information will cover skill development strategies, class/group management, risk management, budget, fund raising and public/family relations.

KINE 2217 - Coaching of Basketball

2 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in basketball. Additional information will cover skill development strategies, class/group management, risk management, budget, fund raising and public/family relations.

KINE 2218 - Coaching of Softball

2 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in softball. Additional information will cover skill development strategies, class/group management, risk management, budget, fund raising and public/family relations.

KINE 2219 - Coaching of Baseball

2 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in baseball. Additional information will cover skill development strategies, class/group management, risk management, budget, fund raising and public/family relations.

KINE 2220 - Coaching of Football

2 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in football. Additional information will cover skill development strategies, class/group management, risk management, budget, fund raising and public/family relations.

KINE 2221 - Coaching of Track and Field

2 sem. hrs.
Instruction and practice of techniques, skills, and instructional strategies involved in track and field. Additional information will cover skill development strategies, class/group management, risk management, budget, fund raising and public/family relations.

KINE 2225 - Sports Conditioning

2 sem. hrs.
This course addresses the principles and practice of sports conditioning from a coaching perspective. Topics will include athletic needs evaluation, exercise programming, and program implementation. Issues regarding resistance exercise, speed, endurance, explosiveness training, and agility will be addressed.

KINE 2226 - Personal Training Instruction

2 sem. hrs.
This course is designed to provide theoretical knowledge and practical skills in preparation for a national certification exam in personal training. Topics include guidelines for instructing safe, effective, and purposeful exercise, essentials of the client-trainer relationship, conducting health and fitness assessments, and designing and implementing appropriate exercise programming. A national personal training certification is offered at the end of the course.

KINE 2227 - Group Fitness Instructor Training Certification

2 sem. hrs.
This course is designed to provide theoretical knowledge and practical skills in preparation for a national certification exam in group-fitness instruction. Topics include guidelines for instructing safe, effective, and purposeful exercise, essentials of the instructor-participant relationship, the principles of motivation to encourage adherence in the group fitness setting, effective instructor-to-participant communication techniques, methods for enhancing group leadership, and the group fitness instructor's professional role. A national group fitness instructor certification is offered at the end of the course.

KINE 2255 - Water Safety Instruction

2 sem. hrs.
Skills and techniques of aquatic rescues and swimming programs. May be repeated for credit by non-kinesiology majors. Materials fee required.

KINE 2313 - Foundations of Kinesiology

3 sem. hrs. TCCNS Equivalent: PHED 1301
An overview of the field of physical education which includes the history, philosophy, principles, current concepts of physical education and career options. For kinesiology majors this course must be taken prior to any senior level (4000) kinesiology courses.

KINE 2314 - Sport Management

3 sem. hrs.
The study of operating principles for programs in intercollegiate athletics, professional sports, recreational sports, and community sport associations.

KINE 2315 - CPR and First Aid for the Professional Rescuer

3 sem. hrs.
This course provides the skills needed by professional rescuers to respond appropriately to breathing, cardiac, and other first aid emergencies. This includes the use of automated external defibrillation (AED), oxygen, suctioning, and airway management devices to care for a victim of breathing or cardiac emergencies.

KINE 2316 - Health and Fitness

3 sem. hrs.
An overview of relevant health and fitness topics including mental and physical health, nutrition, human sexuality, communicable and non-communicable diseases, use and abuse of drugs/alcohol and safety. This course will include

KINE 2317 - Re-inventing Games

3 sem. hrs.
This course is designed to introduce a framework for the development of games, sports, and activities through an inclusive and developmentally appropriate process of change, challenge, and choice. A wide array of sports, sports-related games and activities (invasion, non-invasion, individual and team) are introduced, deconstructed for their current exclusivity and then reconstructed through a framework which seeks to change the existing exclusivity of the rules, to challenge participating students of all cognitive and physical abilities, and then build in a choice component into the activity. This course is a pre-requisite for KINE 3339.

KINE 2325 - Physiological Aspects of Kinesiology

3 sem. hrs.
An introduction to the fundamental principles of human physiology and their application to kinesiology.

KINE 2355 - Lifeguard Training

3 sem. hrs.
This course provides instruction in first aid, CPR for professional rescuers, Automated External Defibrillator (AED) training, water safety and rescue skills.

KINE 2357 - Sport Officiating

3 sem. hrs.
Designed to provide an understanding of the foundations of officiating for sport, and the effective organization, training, and supervision of officials for sport programs.

KINE 2375 - Nutrition for Human Performance

3 sem. hrs.
This course is an introduction to the physiological, anatomical, and psychological aspects of nutrition in relation to human performance and optimal health. Special emphasis is placed on sport and fitness enhancement and achievement of peak training levels, through proper nutrient ingestion.

KINE 3113 - Advanced Tennis

1 sem. hrs. lab
Advanced tennis is designed to provide instruction and practice for students with a high level of tennis ability and experience. Pre-requisite: KINE 2113 or instructor approval.

KINE 3214 - Physical Education Activities

2 sem. hrs.
Application of principles of physical activities, games and sports.

KINE 3244 - Rhythmic and Dance Activities

2 sem. hrs.
Instruction and practice in creative and structured dance as applied to elementary and secondary school programs.

KINE 3291 - Clinical Experience in Athletic Training III

2 sem. hrs.
A field based professional experience to provide the student the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession. Prerequisites: Admission to the athletic training program and concurrent enrollment in KINE 3320.

KINE 3292 - Clinical Experience in Athletic Training IV

2 sem. hrs.
A field based professional experience to provide the student the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession. Prerequisites: Admission to the athletic training program and concurrent enrollment in KINE 3324.

KINE 3301 - Outdoor Adventure Programs

3 sem. hrs.
An introduction to a variety of outdoor adventure activities and basic outdoor skills. In addition to skill acquisition and assessment, this course covers such topics as: history and philosophy of outdoor adventure programs, risk and legal liability and trip planning.

KINE 3318 - Prevention and Care of Athletic Injuries

3 sem. hrs.
Provides the general knowledge and general application of theory, principles, and skills used in the prevention, care, and rehabilitation of athletic injuries.

KINE 3320 - Therapeutic Modalities

3 sem. hrs.
Provides the student with the knowledge of current theory and application of therapeutic modalities used in the treatment of athletic injuries. Prerequisites: KINE 2325 or KINE 3318 or BIOL 2401.

KINE 3322 - Evaluation of Upper Extremity Injuries

3 sem. hrs.
Provides the student with general knowledge of evaluation techniques of athletic injuries to the upper extremities including range of motion testing, neurologic, and orthopedic evaluations. Prerequisite: KINE 2325 or KINE 3318 or BIOL 2401.

KINE 3324 - Evaluation of Lower Extremity Injuries

3 sem. hrs.
Provides the student with general knowledge of evaluation techniques of athletic injuries to the lower extremities including range of motion testing, neurologic, and orthopedic evaluations. Prerequisite: KINE 2325 or KINE 3318 or BIOL 2401.

KINE 3330 - Promotion of Sport

3 sem. hrs.
This course is designed to provide the sport manager with an understanding of the main marketing issues within the sport industry. Special emphases are placed on the application and assessment of marketing sport within the private and public sectors. Prerequisite: KINE 2314.

KINE 3335 - Legal Issues in Sport

3 sem. hrs.
Provides general knowledge of the judicial system and current legal issues in sport including risk management, eligibility, discrimination, drug testing, and Title IX.

KINE 3337 - Psychological Aspects of Kinesiology

3 sem. hrs.
This course provides general knowledge of the psychological factors that are associated with participation and performance in sport, exercise, and other types of physical activity with emphasis on motivational techniques, personality dynamics, and mental health serving as focal points.

KINE 3338 - Motor Development/Motor Learning

3 sem. hrs.
A study of the fundamental principles related to human motor development and the scientific principles related to motor learning. Materials fee required.

KINE 3339 - Elementary Physical Education Programs

3 sem. hrs.
The application of the fundamental principles related to human motor development, physical fitness, locomotor skills, non-locomotor skills, manipulative skills, and rhythmical activities with children at the elementary school level. Materials fee required. Prerequisites: KINE 2317 and KINE 3338.

KINE 3341 - Secondary Physical Education Programs

3 sem. hrs.
The application of the fundamental principles related to human motor development, physical fitness, sports related activities and dance with children at the secondary school level. Materials fee required. Prerequisite: KINE 3338 and KINE 3339.

KINE 3365 - Personnel Management in Sport

3 sem. hrs.
A study of human dynamics and behavior in the workplace of sport agencies. Prerequisite: KINE 2314.

KINE 3366 - Managing Leisure Services

3 sem. hrs.
Introduction of issues related to managing leisure services in a variety of settings such as universities, municipal recreation, corporate wellness centers, and government and private sectors. Prerequisite: KINE 2314.

KINE 4112 - Physiology of Exercise Lab

1 sem. hrs.
The required laboratory course with KINE 4312. Demonstration and hands-on learning will introduce students to the scientific basis, techniques, and methods used in exercise physiology. Lab activities will complement lecture materials from KINE 4312. Lab fee required. KINE 4112 must be taken concurrently with KINE 4312.

KINE 4127 - Biomechanics Lab

1 sem. hrs.
The required laboratory course with KINE 4327. The demonstration and application of mechanical factors and principles

affecting human motion. Qualitative and quantitative analysis of human motion with emphasis on sport and fitness activities. Lab fee required. KINE 4127 must be taken concurrently with KINE 4327.

KINE 4291 - Clinical Experience in Athletic Training V

2 sem. hrs.
A field based professional experience to provide the student the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession. Prerequisites: Admission to the athletic training program and concurrent enrollment in KINE 3322.

KINE 4292 - Clinical Experience in Athletic Training VI

2 sem. hrs.
A field based professional experience to provide the student the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession. Prerequisites: Admission to the athletic training program and concurrent enrollment in KINE 4322.

KINE 4293 - Clinical Experience in Athletic Training VII

2 sem. hrs.
A field based professional experience to provide the student the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession. Materials fee required. Prerequisites: Admission to the athletic training program and concurrent enrollment in KINE 4326.

KINE 4294 - Clinical Experience in Athletic Training VIII

2 sem. hrs.
A field based professional experience to provide the student the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession. Prerequisites: Admission to the athletic training program and concurrent enrollment in KINE 4324.

KINE 4308 - Facilities Design and Planning

3 sem. hrs.
Introduction to the process of developing a variety of facilities found in public and private sport settings. Prerequisite: KINE 2314.

KINE 4310 - Programs in Sports and Physical Fitness

3 sem. hrs.
A study of the principles of physical fitness and biomechanics of sports with an emphasis upon student performance in a variety of sport activities. Prerequisite: KINE 2313.

KINE 4311 - Measurement and Evaluation

3 sem. hrs.
Use and function of the various tests used in kinesiology together with the purpose, scope and techniques of test construction. Development of statistical techniques necessary for manipulation and interpretation of physical performance data. Prerequisites: KINE 1320 or KINE 2313.

KINE 4312 - Physiology of Exercise

3 sem. hrs.
This course is an application of anatomy and physiology that allows for the understanding of the effects of various forms of exercise and the environment on the body systems and performance. Lab activities will complement lecture materials. Prerequisites: KINE 2325 or BIOL 2401 and KINE 1320 or KINE 2313. KINE 4112 must be taken concurrently with KINE 4312.

KINE 4322 - Rehabilitation of Athletic Injuries

3 sem. hrs.
Rehabilitation for athletic injuries including goniometry, muscle testing, therapeutic exercises, and the use of SOAP notes. Prerequisite: KINE 2325 or KINE 3318 or BIOL 2401.

KINE 4324 - Administration of Athletic Training

3 sem. hrs.
Provides the general knowledge and application of athletic training administration including facility design, insurance claims, liability issues, and injury and treatment records. Prerequisite: KINE 1320.

KINE 4325 - Kinetic Anatomy

3 sem. hrs.
An analysis of the skeletal, muscular, and neurological structure and functional aspects of human movement with emphasis on sport and fitness activities. Prerequisites: KINE 2325 or BIOL 2401 and KINE 1320 or KINE 2313.

KINE 4326 - Medical Terminology and Conditions in Sport and Exercise

3 sem. hrs.
Provides information about team physician and athletic trainer relationships, physical examinations, emergency equipment, medical terminology, athletic injuries, and problems related to the team physician. Prerequisite: KINE 2325 or KINE 3318 or BIOL 2401.

KINE 4327 - Biomechanics

3 sem. hrs.
An analysis of the mechanical factors and principles influencing human motion with emphasis on sport and fitness activities. (KINE 4325 strongly recommended) Prerequisites: KINE 2325 or BIOL 2401, and KINE 1320 or KINE 2313. KINE 4327 must be taken concurrently with KINE 4127.

KINE 4328 - Sport and Exercise Pharmacology

3 sem. hrs.
Provides general knowledge of the classifications, legal concerns, therapeutic uses, actions, side effects, and adverse reactions of major drug groups related to sports activities. Prerequisite: KINE 2325 or KINE 3318 or BIOL 2401.

KINE 4339 - Special Populations in Kinesiology

3 sem. hrs.
A course designed to direct kinesiology educators toward meeting the program needs of the exceptional individual in physical education or kinesiology professional setting. Practical teaching application with exceptional individuals is stressed. Prerequisites: KINE 1320 or KINE 2313.

KINE 4340 - Exercise Testing and Prescription

3 sem. hrs.
This course provides classroom and hands on experience addressing all facets of exercise testing and prescription ranging from health appraisal, physical fitness testing, principles of exercise prescription, clinical exercise physiology, and special populations. Prerequisites: KINE 2325 or BIOL 2401, KINE 4312, and KINE 1320 or KINE 2313.

KINE 4363 - Sport Programming

3 sem. hrs.
Designed to provide initial foundation of basic sport programming skills, methods, and techniques necessary to deliver sports activities within a variety of settings, agencies and/or organizations. Prerequisite: KINE 2314.

KINE 4390 - Seminar in Exercise and Sport

1-3 sem. hrs.
Contemporary issues in Exercise and Sport; topics vary with the individual. May be repeated for credit when topic varies.

KINE 4693 - Professional Field Experience I

6 sem. hrs.
This course is a field-based experience (minimum of 200 hours) to provide the student the opportunity to apply knowledge and theory related to the student's specialization in kinesiology (e.g. Exercise Science, Pre-Allied Health Professional, Sport Management). Students must enroll in both KINE 4693 and KINE 4694 at the same time. To enroll students must have departmental approval as well as an overall and kinesiology GPA of 2.75. The field experience is for seniors only and they should enroll during their last semester. Students are allowed to enroll in other coursework but not to exceed the 18-hour university limit.

KINE 4694 - Professional Field Experience II

6 sem. hrs.
This course is in conjunction with Professional Field Experience I. A minimum of 200 hours is required for this portion of the internship for a total of 400 hours. Students must enroll in both KINE 4693 and KINE 4694 at the same time. All of the requisites and limitations of KINE 4693 apply to this course as well.

KINE 4696 - Directed Individual Study

1-6 sem. hrs.
Investigative study on selected problems by students with particular needs through special permission of the Department Chair and Dean. May be repeated for credit when topic varies.

Mathematics

MATH 0099 - Math Non-Course Based Development

0 sem. hrs. (0:0)
Preparation workshop to help students achieve College Readiness in mathematics under the Texas Success Initiative. Topics include four general areas: fundamental mathematics, algebra, geometry, and problem solving. Not counted toward graduation or semester enrollment load. Fee based course.

MATH 0200 - Brief Developmental Mathematics

1-2 sem. hrs. (1-2:0)

Topics as in MATH 0300. For students who have completed most topics in MATH 0300. Requires permission of MATH department. (Not counted toward graduation) Fall, Spring, Maymester, Summer.

MATH 0300 - Developmental Mathematics

3 sem. hrs. (3:0)
Topics include number concepts, computation, elementary algebra, geometry, and mathematical reasoning. Also, linear equations and inequalities, rational expressions, exponents and radicals, quadratics and word problems. May be repeated for credit as needed to complete mastery of all topics. (Not counted toward graduation.) Fall, Spring, Summer.

MATH 0398 - Introduction to Algebra

3 sem. hrs. (3:0)
Number concepts, computation, elementary algebra, geometry, and mathematical reasoning. (Not counted toward graduation.) Fall, Spring, Summer.

MATH 0399 - Intermediate Algebra

3 sem. hrs. (3:0)
Topics include linear equations and inequalities, rational expressions, exponents and radicals, quadratics and word problems. Prerequisite: MATH 0398 or placement into MATH 0399. Fall, Spring, Summer. Not counted toward graduation.

MATH 1314 - College Algebra

3 sem. hrs. (3:0) TCCNS Equivalent: MATH 1314
Quadratic equations, inequalities, graphs, logarithms and exponentials, theory of polynomial equations, systems of equations. Counts as the mathematics component of the University Core Curriculum. Prerequisite: MATH 0399 or placement into MATH 1314. Fall, Spring, Summer.

MATH 1316 - Trigonometry

3 sem. hrs. (3:0) TCCNS Equivalent: MATH 1316
Trigonometric functions, identities, equations involving trigonometric functions, solutions of right and oblique triangles. Prerequisite: MATH 1314 or placement into MATH 1316. Fall, Spring.

MATH 1324 - Business Mathematics

3 sem. hrs. (3:0) TCCNS Equivalent: MATH 1324
This course is designed specifically for students majoring in business. The course shows students how to apply the language of mathematics to business problems, and how to use computers to do mathematics. The course will provide students with communication skills, creative problem solving skills, and the ability to work in teams. The course is centered on two significant business problems and the tools, both mathematical and computer based, that are needed for their solutions. A spreadsheet will be used to assist students with the mathematics and with the presentation of their results. Counts as the mathematics component of the University Core Curriculum. Prerequisite: MATH 1314 or placement beyond MATH 1314.

MATH 1325 - Business Calculus

3 sem. hrs. (3:0) TCCNS Equivalent: MATH 1325
This class is intended to develop the fundamentals of calculus and optimization using technology. The topics to discuss include Graphing Functions, Trend Lines, Demand, Revenue, Cost and Profit, Differentiation (Rate of Change) and its applications, Using Solver, Integration (Area under the curve) and its applications, Normal Distributions, Simulating Normal Random Variables, Hospital Administration. Counts as the mathematics component of the University Core Curriculum. Prerequisite: MATH 1324. Fall, Spring, Summer.

MATH 1390 - Introduction to Mathematical Topics

1-3 sem. hrs. (3:0)
A course to introduce students to mathematical topics in a formal setting. The course may support problem solving, or systematic investigations of topics outside the current mathematical catalog. May not be substituted for regularly scheduled offerings. Prerequisite: Permission of the Department Chair. Cr/NC. May be repeated for credit.

MATH 1442 - Statistics for Life

4 sem. hrs. (3:2) TCCNS Equivalent: MATH 1442
An introduction to statistical concepts and methods used in all disciplines to enhance decision making based on data analysis, including: basic experimental design models, measurement and data collection through sampling; display and summary of information, and assessment of relationship through descriptive techniques; probability concepts leading to estimation and hypothesis testing of means, variance and proportions, regression analysis, one-factor ANOVA and chi-square test of independence; and applications through case studies. The laboratory component of the course offers applications of the theory presented during the classroom sessions. Counts as the mathematics component of the University Core Curriculum. Prerequisite: MATH 0399 or placement beyond MATH 0399; also non-remedial status in Reading and Writing as determined by placement testing or THEA. Fall, Spring, Summer.

MATH 1470 - Introduction to Modeling

4 sem. hrs. (3:2)
A course designed to lead the student to an understanding of how mathematics can be used to model real world systems. Modeling topics include: types of models; identifying relevant variables and potential relationships between them; collecting data; evaluating the fit between model and reality; and explaining the model and its implications to others. Includes a laboratory component. Mathematical examples are taken from the areas of population, biology, optimization, and game theory. Counts as

the mathematics component of the University Core Curriculum. Prerequisite: MATH 0399 or placement beyond MATH 0399; also non-remedial status in Reading and Writing as determined by placement testing or THEA. Fall, Spring, Summer.

MATH 2305 - Discrete Mathematics I

3 sem. hrs. (3:0) TCCNS Equivalent: MATH 2305
An introduction to topics in Discrete Mathematics with an emphasis on applications in Mathematics and Computer Science. Topics include formal logic, graphs, trees and related algorithms, and combinatorics and discrete probability. Prerequisites: MATH 1314 and 1316, or MATH 2312, or placement beyond MATH 2312. Fall, Spring, Summer.

MATH 2312 - Precalculus

3 sem. hrs. (3:0) TCCNS Equivalent: MATH 2312
A more rapid treatment of the material in MATH 1314 and MATH 1316, this course is designed for students who wish a review of the above material, or who are very well prepared. Functions, graphs, trigonometry, and analytic geometry. Prerequisite: MATH 1314 or placement into MATH 2312. Fall, Spring, Summer.

MATH 2413 - Calculus I

4 sem. hrs. (3:2) TCCNS Equivalent: MATH 2413
Limits, continuity, derivatives, applications of the derivative, and an introduction to integrals. Contains a laboratory component. Counts as the mathematics component of the University Core Curriculum. Prerequisite: MATH 1314 and 1316, or MATH 2312, or placement beyond MATH 2312. Fall, Spring, Summer.

MATH 2414 - Calculus II

4 sem. hrs. (3:2) TCCNS Equivalent: MATH 2414
Integration, applications of integration, especially to differential equations, sequences, series, Taylor polynomials and series. Contains a laboratory component. Prerequisite: MATH 2413. Fall, Spring, Summer.

MATH 3300 - Geospatial Mathematical Techniques

3 sem. hrs. (3:0)
Characteristics of geographic/spatial information; overview of relevant sections of numbers, algebra and geometry, plane and spherical trigonometry, matrices, determinants and vectors, curves and surfaces, integral and differential calculus, partial derivatives, with an emphasis on geospatial applications. Concepts of geospatial coordinate systems and geospatial coordinate transformations; overview of spatial statistics and best-fit solutions with geospatial applications. Students may not receive credit for both MATH 3300 and GISC 3300. Prerequisite: MATH 2413 and MATH 2414

MATH 3310 - Mathematical Analysis for Mechanical Engineering

3 sem. hrs. (3:0)
Applications of fundamentals of linear algebra, vector analysis, numerical methods, computer programming and probability and statistics into mechanical engineering. May not count towards the MATH major. Students may not receive credit for both MATH 3310 and MEEN 3310. Prerequisite: MATH 3315.

MATH 3311 - Linear Algebra

3 sem. hrs. (3:0)
Fundamentals of linear algebra and matrix theory. Topics include vectors, matrix operations, linear transformations, fundamental properties of vector spaces, systems of linear equations, eigenvalues and eigenvectors. Applications. Prerequisite: MATH 2413. Fall, Spring, Summer.

MATH 3312 - College Geometry

3 sem. hrs. (2:2)
A careful study of the foundations of Euclidean geometry by synthetic methods with an introduction to non-Euclidean geometries. An introduction to transformational geometry. Prerequisite: MATH 2413 - Calculus I and junior standing; MATH 3311 - Linear Algebra recommended. Spring, Summer.

MATH 3313 - Foundations of Number Theory

3 sem. hrs. (3:0)
This course assists a student's transition to advanced mathematics. Fundamentals of logic and proof are reviewed and applied to topics from elementary number theory. Prerequisites: MATH 2305 - Discrete Mathematics I and MATH 2414 - Calculus II.

MATH 3314 - Foundations of Real Numbers

3 sem. hrs. (3:0)
This course assists a student's transition to advanced mathematics. Fundamentals of logic and proof are reviewed and applied to development of the real number line. Prerequisites: MATH 2414 and MATH 2305 .

MATH 3315 - Differential Equations

3 sem. hrs. (3:0)
An introduction to both theoretical and applied aspects of ordinary differential equations. Topics include: first order equations, linear second order equations, elementary numerical methods, and the Laplace transform. Prerequisites: MATH 2414. Fall, Spring and Summer.

MATH 3342 - Applied Probability and Statistics

3 sem. hrs. (3:0)
A calculus based introduction to probability and statistics. Emphasis will be on development of statistical thinking and working with data. Topics include probability theory, descriptive statistics, common distributions, and statistical inference. Prerequisite: MATH 2413 - Calculus I. Fall, Spring. MATH 3342 - Applied Probability and Statistics and MATH 3345 - Statistical Modeling and Data Analysis cannot both be counted toward the major.

MATH 3345 - Statistical Modeling and Data Analysis

3 sem. hrs. (3:0)
An introduction to probability/statistical modeling and data analysis techniques to investigate data. Topics include: exploratory data analysis, probability models and simulation, sampling distributions, statistical inference. Applications to real world problems. Students will be expected to present and justify results orally and in writing. Prerequisities: MATH 2414 - Calculus II and COSC 1330 - Programming for Scientists, Engineers, and Mathematicians or equivalent.

MATH 3385 - Linear Optimization and Decisions

3 sem. hrs. (3:0)
This course introduces the linear programming and optimization problems arising in many applications. Contents include linear programming models with solutions, the simplex method, duality theory and its use for management decision making, dual simplex method and sensitivity analysis. Prerequisite: Math 3311 and Math 2413. Fall.

MATH 3390 - Problem Solving in Mathematics

1-3 sem. hrs. (3:0)
A problem solving course for students who want to participate in math problem solving competitions, train for the actuarial or other professional examinations, work on research aimed at conference presentations, or perform research projects at the junior level that are not at the level of directed independent study material. Prerequisites: A grade of C or better in MATH 2414 and permission of the Department Chair. May not be substituted for regularly scheduled offerings.

MATH 3470 - Calculus III

4 sem. hrs. (3:2)
Parametric equations, vectors, functions of two and three variables. Contains a laboratory component. Prerequisite: MATH 2414. Fall, Spring.

MATH 4301 - Introduction to Analysis

3 sem. hrs. (3:0)
An advanced treatment of the foundations of calculus stressing rigorous proofs of theorems. Topics include: elements of propositional and predicate logic, topology of the real numbers, sequences, limits, the derivative, and the Riemann integral. Prerequisites: MATH 3470 and MATH 3313. Fall.

MATH 4306 - Modern Algebra

3 sem. hrs. (3:0)
Fundamentals of set operations, maps and relations, groups, rings and field theory. Topics include permutation groups, cosets, homomorphisms and isomorphisms, direct product of groups and rings, integral domains field of quotients, fundamental properties of integers, the ring of integers modulo n, and rings of polynomials. Applications. Prerequisites: MATH 3311 and MATH 3313. Spring.

MATH 4315 - Partial Differential Equations

3 sem. hrs. (3:0)
An introduction to partial differential equations emphasizing the wave, diffusion and potential (Laplace) equations. A focus on understanding the physical meaning and mathematical properties of solutions of partial differential equations. Methods include fundamental solutions and transform methods for problems on the line, and separation of variables using orthogonal series for problems in regions with boundary. Additional topics include higher dimensional problems and special topics like Harmonic functions, the maximum principle, Green's functions etc. Prerequisites: MATH 3315 and MATH 3470. Offered Spring of even years.

MATH 4321 - Applied Regression Analysis

3 sem. hrs. (2:2)
Introduction to the formulation of linear models and the estimation of the parameters of such models, with primary emphasis on least squares. Application of multiple regression and curve fitting and the design of experiments for fitting regression models. Prerequisites: MATH 1342 or MATH 2342 or the equivalent, or MATH 1470. Offered on sufficient demand.

MATH 4328 - Discrete Mathematics II

3 sem. hrs. (3:0)
A continued study of topics from Discrete Mathematics I with additional topics from discrete mathematics that have strong application to the field of computer science. Additional topics include: recurrence relations, formal languages, and finite-state machines. Prerequisites: MATH 2305, COSC 2437. Spring.

MATH 4342 - Introduction to Mathematical Statistics

3 sem. hrs. (3:0)
A first course in mathematical statistics and is taught from a classical viewpoint. Topics include: Set theory, counting techniques, probability axioms, probability density and distribution functions, common distributions, mathematical expectations, functions of random variables, sampling distributions, estimation, hypothesis testing including the likelihood ratio test and the Neyman Pearson theory, regression and correlation. Prerequisite: MATH 3470 required, MATH 3342 recommended. Spring of odd years.

MATH 4385 - Applied Modeling

3 sem. hrs. (3:0)
Capstone course for mathematics majors. The construction of mathematical models from areas such as economics, refining, biology and mariculture, etc. Where possible, local phenomena will be modeled with the assistance of outside consultants. Prerequisites: MATH 3315, MATH 3342, and completion of at least 90 hours. Spring.

MATH 4390 - Selected Topics

3 sem. hrs. (3:0)
Offered on sufficient demand. Prerequisites vary.

MATH 4690 - Contracted Experience in Mathematics

1-6 sem. hrs.
Individual contract agreement involving student, faculty, and cooperating agency to gain practical experience in research or industrial setting. May only count as an Open Elective. Prerequisite: Permission of the department. Cr/No Cr

MATH 4696 - Directed Independent Study

1-6 sem. hrs. (3:0)
See college description. Prerequisite: Permission of the instructor. May not be substituted for regularly scheduled offerings.

Mechanical Engineering

ENGR 4350 - Machine Vision and Image Processing Applications

3 sem. hrs. (3:0)

Introduces students to automated vision systems and components, camera models, testing and measurement, and fundamentals of image processing. Topics include image analysis and processing in binary, gray scale and color images in spatial- and frequency-domain. Texture and shape analysis, hyperspectral imaging, other transforms, and filters are discussed and applied.

Prerequisites: COSC 1330 - Programming for Scientists, Engineers, and Mathematicians or COSC 1435 - Introduction to Problem Solving with Computers I , and ENGR 2460 - Circuit Analysis , and MATH 2414 - Calculus II.

MEEN 3310 - Engineering Analysis for Mechanical Engineering

3 sem. hrs. (3:0)
Applications of fundamentals of linear algebra, vector analysis, numerical methods, computer programming, and probability and statistics for mechanical engineering. (Cross-listed with MATH 3310 - Mathematical Analysis for Mechanical Engineering) Prerequisite: MATH 3315 - Differential Equations .

MEEN 3330 - Solid Mechanics for Mechanical Engineering

3 sem. hrs. (2:3)
Stress analysis of deformable bodies and mechanical elements; stress transformation; combined loading; failure modes; material failure theories; fracture and fatigue; deflections and instabilities; thick cylinders; curved beams; design of structural/mechanical members; design processes. Prerequisites: ENGR 3320 - Strength of Materials .

MEEN 3340 - Solid Modeling and Finite Elements

3 sem. hrs. (2:3)
Use of computer aided design and solid modeling tools in engineering design, and analysis, and manufacturing including: solid modeling, stress, flow, and heat transfer analysis using finite element methods. Prerequisite: MEEN 3310 - Engineering Analysis for Mechanical Engineering and ENGR 3320 - Strength of Materials .

MEEN 3345 - Heat Transfer

3 sem. hrs. (3:0)
Steady and unsteady conduction in one- and two-dimensions; forced convection, internal and external flows; heat exchangers; introduction to radiation; elements of thermal system design. Prerequisite: ENGR 2316 - Thermodynamics and Corequisite: ENGR 3315 - Fluid Mechanics .

MEEN 4240 - Project Management

2 sem. hrs. (2:2)
Foundations of engineering economy, cash flow and equivalence, and project justification. Introduction to project management, planning, scheduling, and control, use of project management software, GANTT charts, PERT charts, and critical path. Students prepare proposals, including specifications, timelines, schedule, and budget, for projects to be implemented in MEEN 4370 - Capstone Projects . This course should be taken the semester preceding MEEN 4370 - Capstone Projects Prerequisite: MEEN 3330 - Solid Mechanics for Mechanical Engineering and MEEN 3345 - Heat Transfer .

MEEN 4320 - Engineering Lab

3 sem. hrs. (2:3)
Experimentation and analysis of thermal/fluid systems, energy balances, performance measurements of devices and systems, data

analysis and correlation, elements of experimental design. Prerequisite: MEEN 3330 - Solid Mechanics for Mechanical Engineering , MEEN 3345 - Heat Transfer and ENGR 2460 - Circuit Analysis .

MEEN 4325 - Energy Conversion

3 sem. hrs. (2:3)
Natural resources: fuels, solar, wind, geothermal, wave, and ocean thermal; thermodynamics of power cycles and processes: Rankine, Brayton, gas turbine, IC engines, fuel cell; nuclear power; direct energy conversion: photovoltaic, thermoelectric, thermionic, magnetohydrodynamics; non-reactive processes: wind, wave/tidal, ocean thermal energy, solar thermal; concept of life cycle assessments of carbon foot print. Student teamwork of a class term paper is expected. Prerequisite: ENGR 2316 - Thermodynamics .

MEEN 4330 - Introduction to Plasma Engineering and Applications

3 sem. hrs. 2:2

Physical, electrical, chemical properties of plasmas; differences in properties of thermal and non-thermal plasmas, direct and alternating current plasma sources, inductive and capacitive coupled plasma sources, diagnostics and applications of plasmas. Prerequisites: ENGR 2322 - Materials Science , and ENGR 2460 - Circuit Analysis or PHYS 2426 - University Physics II .

MEEN 4335 - Introduction to Aircraft Aerodynamics and Performance

3 sem. hrs. 3:0

Forces on aircraft; standard atmosphere; steady-state cruise, climb, and turn performance; performance optimization; introduction to aircraft longitudinal stability. Prerequisites: ENGR 2326 - Dynamics .

MEEN 4345 - Sensors and Systems

3 sem. hrs. 3:0

This course covers sensors and sensing systems where sensing modalities, analysis of sensed data, data transmission and reception are discussed. Filtering and estimation in sensing systems are considered. The course covers sensors at component level to develop subsystems and more complex sensing systems that monitor physical phenomena in laboratory or marine/terrestrial environments. Other topics include multidimensional signal and image processing,

object tracking, multisensory data fusion, applications in environmental monitoring, remote sensing and surveillance. Prerequisites:MATH 2414 - Calculus II , PHYS 2426 - University Physics II and ENGR 2460 - Circuit Analysis .

MEEN 4350 - Controls, Automation and Robotics

3 sem. hrs. (2:3)
Automation in a manufacturing and assembly setting for ocean and marine environments, material handling systems, remote guided vehicles, automated storage and retrieval systems, computer numerical machine tools, robotics. Prerequisite: MATH 3315 - Differential Equations , ENGR 2326 - Dynamics and ENGR 2460 - Circuit Analysis .

MEEN 4355 - Marine Fabrication

3 sem. hrs. (2:3)
Advanced topics in manufacturing and fabrication related to ships and offshore platforms and construction. Prerequisite: ENGR 3350 - Manufacturing Processes .

MEEN 4360 - Thermal Systems Design

3 sem. hrs. (3:0)
Analysis, management and cost, optimal design, and computer simulation of thermal systems and components; Applications in fluid flow and heat transfer, pumps, turbines and heat exchangers. Selected course topics are assigned as projects. Prerequisite: MEEN 3345 - Heat Transfer .

MEEN 4365 - Mechanical Systems Design

3 sem. hrs. (3:0)
Analysis, management and cost, optimal design, and computer simulation of mechanical systems and components; machine elements, and stress analysis. Selected course topics are assigned as projects. Prerequisite: MEEN 3330 - Solid Mechanics for Mechanical Engineering .

MEEN 4370 - Capstone Projects

3 sem. hrs. (1:5)
This course allows students to employ the knowledge attained in other courses to implement (including building, testing, and documenting) an approved project, within budget and on schedule. Course requirements include a written report and oral presentations. Prerequisite: MEEN 4240 - Project Management . Corequisite: MEEN 4360 - Thermal Systems Design and MEEN 4365 - Mechanical Systems Design . To be taken in the student’s final long semester before graduation.

MEEN 4375 - Fuel Cells

3 sem. hrs. 3:0

Students will acquire an understanding of thermodynamics, transport phenomena and reaction fundamentals that are required to understand the processes and phenomena that pose limits on fuel cell performance. Prerequisites: ENGR 2316 - Thermodynamics ,MEEN 3345 - Heat Transfer and CHEM 1411 - General Chemistry I .

MEEN 4380 - Renewable Energy

3 sem. hrs. (2:2)
Renewable and alternative energy sources and fuels; modern energy conversion devices, such as offshore wind farms, marine current turbines, fuel cells, photovoltaic cells, and micro-power turbines. Cost and environmental analysis of renewable sources. Installation, design characteristics, operational performance, and maintenance of motors, turbines, pumps and compressors. Introduction to global energy concerns; fossil and nuclear fuels; energy consumption analysis; energy management and conservation techniques. Prerequisite: ENGR 2316 - Thermodynamics ,ENGR 2460 - Circuit Analysis and MEEN 4325 - Energy Conversion .

MEEN 4385 - Offshore Energy Management

3 sem. hrs. (3:0)
Topics related to the design and energy management of ships and offshore platforms will be covered. Such topics may include oil and gas exploration, wind and marine energy systems, and environmental protection. Prerequisite: MEEN 3345 - Heat Transfer .

MEEN 4390 - Introduction to Computational Fluid Dynamics

3 sem. hrs. (2:3)
Introduction to numerical, computational, modeling and simulation of thermo-fluid systems. Applications related to ships and offshore platforms and structures will be presented. Prerequisite: MEEN 3345 - Heat Transfer .

MEEN 4395 - Offshore Water Exploration and Desalination Systems

3 sem. hrs. (2:3)
Advanced and future applications of sea floor mapping, under-water acoustics and GIS for fresh water exploration and mining. Renewable energy driven coastal, near-shore, and offshore desalination systems. Prerequisite: ENGR - 2316 - Thermodynamics .

MEEN 4396 - Directed Independent Study

1-3 sem. hrs.
Requires a formal proposal of study to be completed in advance of registration, approval of supervising faculty and chairperson. Prerequisites: Varies.

Management

MGMT 3312 - Behavior in Organizations

3 sem. hrs.
Interactions of individuals and groups in work environments. Topics include decision making, motivation, leadership, power, conflict, stress, and diversity. Other coverage includes management functions and environmental constraints affecting managerial practice and decisions. Prerequisite: BUSI 0011 and Junior standing or above.

MGMT 3315 - Communicating in Business

3 sem. hrs.
A study of the fundamentals of effective communication in business and administration. Emphasis is placed on the application of modern techniques to business writing, and oral reporting. Prerequisites: BUSI 0011, and Junior standing or above.

MGMT 3320 - Concepts of Human Resource Management

3 sem. hrs.
A study of the comprehensive set of managerial activities carried out in organizations to develop and maintain a qualified workforce. Topics include the legal environment, human resource planning, recruitment, selection, employee appraisal, compensation systems, and an introduction to labor relations. Prerequisite: MGMT 3312 and Junior standing or above.

MGMT 3325 - Introduction to Quality Management

3 sem. hrs.
The contributions of the masters in quality management are examined. Applications of concepts in manufacturing and service organizations are presented. The class is managed by utilizing these concepts. Prerequisite: Junior standing or above.

MGMT 3330 - Small Business Strategy

3 sem. hrs.
This course will focus on both the entrepreneurial aspects and the ongoing management of a small business enterprise, with a focus on achieving and sustaining competitive advantage as a small organization. This course generally defines a small business as one that has fewer than 100 employees, has a target customer in close proximity to its bricks-and-mortar operations, and where only one or a few individuals had provided the original startup financing. This course will focus on the leadership, decision-making, management, marketing, financial controls and other mission-critical processes that ensure a successful startup and ongoing health of a small business enterprise. Prerequisite: MGMT 3312 and/or Permission of Instructor

MGMT 3335 - Strategic Issues in Family Business

3 sem. hrs.
This course examines the new discipline that has developed over the last 20 years and focuses on the unique aspects of family business. Strategy, finance, accounting, organizational behavior, law, operations management and basic small business concepts are integrated throughout this course. Students will have an opportunity to work as consultants to a family firm and assist with the development of a firm strategic, business or transitional plan. Prerequisite: MGMT 3312 and/or Permission of Instructor

MGMT 3355 - Organization Change and Development

3 sem. hrs.
An in-depth study of group and organization-wide interventions designed to improve the group and organization's ability to cope with change and manage continuous improvement. Emphasis is on developing processes to improve group dynamics, organization-wide health and effectiveness, and on a systems approach to diagnosing and solving problems. Prerequisites: MGMT 3312 and Junior standing or above.

MGMT 3360 - Social Entrepreneurship

3 sem. hrs.
Social entrepreneurs are gaining international attention motivated by change and to see the world as it can be, not as it is. Students in the course are expected to participate in the creation of solutions to address a social problem. The intention of the course is to combine the goal of serving others while deepening each student's understanding of the world around them. This interdisciplinary course will help students from all majors learn how social entrepreneurship can create a better world by starting with the strength of their major field and applying to the problems of a disadvantaged population. The field of social entrepreneurship is in its infancy, and as such, we are collaborating to share knowledge and gain experience in this emerging field. Prerequisite: Junior standing or above

MGMT 3390 - Training, Development and Career Planning

3 sem. hrs.
A study of the concepts and methods appropriate to the functions of training, career development, and career planning. Students will learn self-assessment skills, job search techniques, and will apply these learned skills and concepts to the design of a training program and the development of a career plan. Prerequisites: MGMT 3312 and Junior standing or above.

MGMT 4305 - Staffing and Development

3 sem. hrs.
A study of the concepts, methods, and problems encountered in the development, validation, and utilization of employee recruitment, selection, training, and career development. Legal defensibility, and organizational effectiveness of staffing and development will be discussed. Prerequisites: ORMS 3310, MGMT 3320, or permission of instructor if taken as an elective, and Junior standing or above.

MGMT 4310 - Managing Dysfunctional Workplace Behavior

3 sem. hrs.
This course focuses on conceptual content and skills that today's managers can use to improve the workplace environment and management of subordinate performance. More specifically, the course focuses on the causes, consequences and management of many difficult employee behaviors including aggression, violence, sexual harassment, sabotage, and theft. The material is based upon previous coursework and extends student understanding of important topics including motivation, discipline, leadership, group behavior, and performance management. Prerequisites: MGMT 3312, 3320 and Junior standing or above.

MGMT 4315 - Multinational Management

3 sem. hrs.
A study of management processes and their application across different cultural, economic and legal environments. The course focuses on differences among values, beliefs, perceptions, attitudes and behaviors across national and cultural boundaries that affect the employee work and performance. Prerequisites: MGMT 3312, 3320, or permission of instructor if taken as an elective, and Junior standing or above.

MGMT 4320 - Leadership and Managerial Effectiveness

3 sem. hrs.
A chronological study of leadership models, styles, and practices highlighting the paradigm shift from the industrial age to the information age. Focuses on the characteristics of leaders important to effective leadership outcomes, cross-cultural skills essential for effective leadership in international and culturally diverse settings, self-assessment and the development of a personal leadership vision, and the strategic skills necessary for providing vision and strategic direction of the organization. Prerequisites: MGMT 3312, 3320, 3355, or permission of instructor if taken as an elective, and Junior standing or above.

MGMT 4330 - Business Ethics

3 sem. hrs.
Historical and contemporary views of business as a social institution; focus is on the nature of ethics and the utilization of codes of ethics. Prerequisite: Junior standing or above.

MGMT 4335 - Compensation and Appraisal Systems

3 sem. hrs.
A study of the issues involved in planning, processing and administering employee compensation programs and performance appraisal systems. Topics include incentive pay, executive compensation, fringe benefits, health and pension plans, methods of performance appraisal and use of appraisals in compensation decisions. Prerequisites: MGMT 3320, or permission of instructor if taken as an elective, and Junior standing or above.

MGMT 4340 - Critical Thinking and Decision Making

3 sem. hrs.
This course integrates theory and practice in order to develop and accumulate problem solving skills--the ability to analyze, think, perform, evaluate, and adapt to the changing needs of organizations. Focuses on complex decision making processes, critical thinking skills and creative problem solving techniques for the learning organization, motivation and coaching of others, development of conflict resolution skills, and the management of stress and well-being. Prerequisites: MGMT 3312, 3320, 3355, 4320, or permission of instructor if taken as an elective, and Junior standing or above.

MGMT 4385 - Human Resource Planning

3 sem. hrs.
A study of the concepts important to human resource planning; both strategic planning and budgetary planning will be discussed. The course will focus on developing skills necessary to estimate and evaluate the costs of various human resource activities, and on decision-making activities in a human resource management environment. Prerequisites: MGMT 3320, or permission of instructor if taken as an elective, and Junior standing or above.

MGMT 4388 - Administrative Policy and Strategy

3 sem. hrs.
Analytical process and methodology for policy-strategy formulation, approached as a multi-level, integrative process. Analysis focused on integration of skills and competencies acquired through the BBA program. Open only to business majors who are in their last semester or within 12 hours of graduation and have completed all other courses in the Business Core.

MGMT 4390 - Current Topics in Management

1-3 sem. hrs.
Selected topics for special study related to management functions, processes or issues. May be repeated for credit when topics vary. Prerequisites: Junior standing or above, and others depending on topic. Contact the Dean’s office for information.

MGMT 4396 - Directed Individual Study

1-3 sem. hrs.
Individual supervised study and a final report. Prerequisites: permission of instructor, Junior standing or above, and others depending on selected topic. Inquire at the Dean's office for information.

MGMT 4398 - Internship in Management

3 sem. hrs.
Supervised full-time or part-time, off-campus training in business or government organization. Oral and written reports required. Prerequisites: management major, and Junior standing or above. Students must apply to program and be accepted prior to registration. May not be repeated for credit.

Management Information Systems

MISY 2305 - Computer Applications in Business

3 sem. hrs. TCCNS Equivalent: BCIS 1305
Survey of modern business computer hardware, software, and applications. Opportunities to create programs and use existing application software to solve various management information technology-oriented problems. Emphasizes the end-user's perspective, and interactions with management information technology. Satisfies university computer literacy requirement.

MISY 3310 - Management Information Systems Concepts

3 sem. hrs.
Provides an understanding of the importance of computer-based information in the success of the firm. Illustrates ways in which companies utilize computer systems to strategically compete within certain industries. Emphasis is on the role of information systems within each of the functional areas of business. Major concepts include data management, decision support, and management information systems. Prerequisites: BUSI 0011, and Junior standing or above.

MISY 3320 - Business Data Communication and Networking I

3 sem. hrs.
Characteristics of contemporary business data communication components, their configurations, and their impact on management information systems design. Topics include designing, managing, securing, and implementing business data communication networks, and their integration into management information systems. Exercises and assignments use various data communication facilities. Prerequisites: Junior standing or above.

MISY 3330 - Database Management

3 sem. hrs.
Concepts and methodology of data base planning, design, development, and management of the computerized data base of a management information system. The emphasis is on logical data base design and a study of hierarchical, network, and relational implementations. Normalization exercises are completed relative to the logical design of relational data bases. Exercises and assignments use a relational DBMS package. Prerequisites: Junior standing or above.

MISY 3340 - Systems Analysis and Design

3 sem. hrs.
Develops ability to analyze an existing information system within an organization, to identify information requirements, and to

specify the functions of a new information system. Includes cost/benefit analysis of proposed information systems. Exercises and assignments use a Computer Aided Software Engineering (CASE) tool. Prerequisites: Junior standing or above.

MISY 3350 - Business Applications Development

3 sem. hrs.
This course provides an understanding of the Visual Basic programming environment in the context of business application design and development. This course will place emphasis on performance characteristics and user interface design considerations. Prerequisites: Junior standing or above.

MISY 3360 - ERP Overview

3 sem. hrs. 3:0
A study of the management of information technology as it is practiced in organizations today. Traditional organizations are moving toward a more interconnected or networked business environment. A major focus is understanding the role and use of complex technology in the support of individual, workgroup, enterprise, inter-enterprise and international computing. This course will utilize a business process management approach through the use of enterprise software. Prerequisite: ONLY Juniors or Post-Baccalaureate

MISY 4310 - Business Data Communications and Networking II

3 sem. hrs.
Design, implementation, and operation of client-server network systems for organizational Intranets and Internet presence. Exercises and assignments use selected data communications facilities. Prerequisites: MISY 3320 and Junior standing or above.

MISY 4325 - Business Decision Support Systems and Expert Systems

3 sem. hrs.
A survey of decision support systems and expert systems used in business. Topics include artificial intelligence (AI), knowledge engineering, knowledge acquisition, expert system shells, modeling, simulation, and selection of appropriate computer package support. Exercises and assignments use various computer packages such as neural network systems and expert system shells. Prerequisites: Junior standing or above.

MISY 4330 - Website Development for Business

3 sem. hrs.
This course provides an understanding of the principles and techniques for client-side web development using HTML, XHTML and CSS. Text editors and the software tools such as Dreamweaver and FrontPage will be used. This course includes designing for web standard, accessibility, usability, and workflow for web design. Prerequisites: Junior standing or above.

MISY 4340 - Electronic Commerce Management

3 sem. hrs.
A broad overview of electronic commerce topics as they relate to various users. General coverage includes electronic commerce history, opportunities, limitations, and risks. Technical discussions include the internet, intranets, extranets, firewalls, security, protocols, servers, and browsers. Prerequisites: Junior standing or above.

MISY 4350 - Business Intelligence and Analytics

3 sem. hrs.
Overview of important concepts of business intelligence, and the use of analytics, technologies, applications and processes used by organizations to gain data-driven insights. These insights and predictions can be used to aid decision-making and performance management across functional areas, including marketing, operations, and finance. Students will learn to extract and manipulate data, and create reports, scorecards and dashboards, including mobile apps. ONLY Juniors or Post-Baccalaureate or Seniors for MISY 4350

MISY 4365 - Data Warehousing and Data Mining for Business Intelligence

3 sem. hrs.
In the information age, organizations can and do collect massive amounts of data. Yet organizations are often "data rich" but "information and knowledge poor". This course is designed to prepare business professionals who, by using analytical methods and data mining and data visualization tools such as XLMiner, SAP Lumira and SAP Hanna, will be able to harness the potential of data by extracting business intelligence that can be used to improve decisions and operations at various points in the value chain. Prerequisites: MISY 2305, MISY 3330, ORMS 3310, and Junior standing or above.

MISY 4375 - IT Project Management

3 sem. hrs. 3:0
This course covers issues related to managing projects in organizations. The course focuses on the management of projects and working as a team. Students are expected to draw on materials from other management information system courses, especially the System Analysis and Design, and Database Management courses. Prerequisites: MISY 3330 (Database Managment)

MISY 4390 - Current Topics in Management Information Systems

1-3 sem. hrs.
Selected topics for special study related to management information systems. Prerequisites: Junior standing or above, and others depending on topic. Contact the Dean's office for information.

MISY 4396 - Directed Individual Study

1-3 sem. hrs.
Individual supervised study and a final report. Prerequisites: permission of instructor, Junior standing or above, and others depending on selected topic. Inquire at the Dean's office for information.

MISY 4398 - Internship in Management Information Systems

1-3 sem. hrs.
Supervised practical experience in business computer systems. Prerequisites: MIS major, Junior standing or above, and others depending on selected internship. Students must be accepted prior to registration. May not be repeated for credit.

Marketing

MKTG 3310 - Principles of Marketing

3 sem. hrs.
The initial course in Marketing. Description and analysis of the flow of goods, services and ideas to consumers and industrial users. Factors outside the firm are also considered as they affect marketing decisions. Prerequisite: BUSI 0011 and Junior standing or above.

MKTG 3311 - Salesmanship: Concepts and Practices

3 sem. hrs.
An introduction to professional salesmanship as a marketing tool. Emphasis is placed on the theory and application of the professional selling process. Prerequisite: Junior standing or above.

MKTG 3315 - Advertising and Promotional Strategy

3 sem. hrs.
The student will learn about the development and implementation of a coordinated and integrated advertising and promotions strategy. Emphasis is placed on the interrelationships among advertising, sales management, and sales promotion activities. Prerequisites: MKTG 3310 and Junior standing or above.

MKTG 3320 - Basic Advertising

3 sem. hrs.
Advertising concepts and a critical analysis of commercial advertising practices. Students apply advertising concepts in projects such as case studies, campaign evaluations, and simulation exercises. Prerequisite: Junior standing or above.

MKTG 3325 - Entrepreneurial Marketing

3 sem. hrs.
Entrepreneurial marketing provides entrepreneurs and small business owners with the knowledge needed to successfully perform marketing activities (primarily promotion) on a very low budget. Students will learn the utilization of techniques and the analysis of market characteristics that impact the small entrepreneurial organization, its products and services. Additionally, students will learn how to develop specific yet flexible marketing plans and activities, and the effective management of practices, finances, and obligations associated with the marketing of smaller entrepreneurial firms. Factors inside and outside the firm are researched and analyzed as they affect successful small business marketing decisions. Prerequisites: Junior standing or above and/or permission of the instructor for non-business majors.

MKTG 3330 - Consumer Behavior

3 sem. hrs.
An examination of the psychological and social influences that affect consumer decision making. Emphasizes the development of marketing programs designed with behavioral considerations in mind. Prerequisites: MKTG 3310 and Junior standing or above.

MKTG 3333 - Marketing on the Internet

3 sem. hrs.
This course introduces students to the theories, strategies, tools, and techniques of effective online marketing. The course emphasizes the essential concepts, methods, technologies, and decision making criteria for business-to-business and business-to-consumer Internet marketing. The broad concepts of ethics, social responsibilities, sustainability, and globalization are integrated through the course. Topics include online marketing research, business intelligence, Web site design, and Internet marketing strategy. Prerequisites: MKTG 3310 (or equivalent) and Junior status. NOTE: This course was previously offered as MKTG 4390: Current Topics in Marketing: Internet Marketing. Students may NOT earn credit toward their degree for both classes.

MKTG 3340 - Retail Management

3 sem. hrs.
A managerial approach to retailing. Topics such as trade area evaluation, buying, layout, pricing, cost and expense analysis are considered. Prerequisites: MKTG 3310 and Junior standing or above.

MKTG 3345 - Sales Management

3 sem. hrs.
An exploration of the problems and practices of sales and sales management. Organizational structure and development of programs to assure a competent and effective sales force are stressed. Prerequisites: MKTG 3310 and Junior standing or above.

MKTG 4310 - Distribution Systems in Marketing

3 sem. hrs.
An analysis of the development of integrated distribution systems. Topics include retail and wholesale institutions, channel conflict and cooperation, channel control, franchising and emerging developments in distribution channels. Prerequisites: MKTG 3310 and Junior standing or above.

MKTG 4320 - Marketing Research and Analytics

3 sem. hrs.
The study of research in marketing with emphasis on the collection and interpretation of data and its application to the solution of marketing problems. Prerequisites: ORMS 3310, MKTG 3310, 6 hours of advanced marketing, and Junior standing or above.

MKTG 4340 - International Marketing.

3 sem. hrs.
A study of the economic, social and cultural environment of international marketing. The course focuses on marketing decision making in this environment. Prerequisites: MKTG 3310 and Junior standing or above, or permission of instructor.

MKTG 4350 - Marketing Problems and Policies

3 sem. hrs.
Capstone course in Marketing. The development and implementation of marketing strategy. The development of marketing programs that affect and are affected by the competitive environment. Prerequisites: MKTG 3310, nine additional hours of upper-division marketing, and Senior standing.

MKTG 4390 - Current Topics in Marketing

1-3 sem. hrs.
Selected topics for special study related to marketing functions, processes, or issues. May be repeated for credit when topics vary. Prerequisites: Junior standing or above, and others depending on topic. Contact the Dean’s office for information.

MKTG 4396 - Directed Individual Study

1-3 sem. hrs.
Individual supervised study and a final report. Prerequisites: permission of instructor, Junior standing or above, and others depending on selected topic. Inquire at the Dean's office for information.

MKTG 4398 - Internship in Marketing

3 sem. hrs.
Supervised full-time or part-time, off-campus training in business or government organization. Oral and written reports required.

Prerequisites: marketing major, and Junior standing or above. Students must apply to program and be accepted prior to registration. May not be repeated for credit.

Military Science

MSCI 1170 - Leadership and Personal Development Lab

1 sem. hrs. Lab
The lab component explores the practical applications of the lessons being taught in the classroom. Students will participate as a team member through a variety of group exercises and tactical scenarios. The emphasis is on exploring, and developing skills in decision-making that the student will need in their advanced classes. The lab continues to building on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation, individual, squad, and platoon tactics. Concurrent enrollment in MSCI 1370.

MSCI 1171 - Introduction to Tactical Leadership Lab

1 sem. hrs. Lab
The lab component explores the practical application of the lessons being taught in the classroom. Students will participate as a team member through a variety of group exercises and tactical scenarios. The emphasis in on exploring, and developing skills in decision-making that the student will need in their advanced classes. The lab continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation, individual, squad, and platoon tactics. Concurrent enrollment in MSCI 1371.

MSCI 1370 - Leadership and Personal Development

3 sem. hrs.
MSCI 1370/MSL 1301 introduces you to the personal challenges and competencies that are critical for effective leadership. You will learn how the personal development of life skills such as goal setting, time management, physical fitness, and stress management related to leadership, officership, and the Army profession. The focus is on developing basic knowledge and comprehension of Army leadership dimensions, attributes and core leader competencies while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

MSCI 1371 - Introduction to Tactical Leadership

3 sem. hrs.
MSCI 1371/MSL 1302 introduces leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. You will explore dimensions of leadership attributes and core leader competencies in the context of practical, hands-on, and interactive exercises.

MSCI 2170 - Innovative Team Leadership Lab

1 sem. hrs. lab
The lab component explores the practical applications of the lessons being taught in the classroom. Students will participate as a team member through a variety of group exercises and tactical scenarios. The emphasis is on exploring, and developing skills in decision-making that the student will need in their advanced classes. The lab continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation, individual, squad, and platoon tactics. Concurrent enrollment in MSCI 2370.

MSCI 2171 - Foundations of Tactical Leadership Lab

1 sem. hrs. lab
The lab component explores the practical applications of the lessons being taught in the classroom. Students will participate as a team member through a variety of group exercises and tactical scenarios. The emphasis is on exploring and developing skills in decision making that the student will need in their advanced classes. The lab continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation, individual, squad and platoon tactics. Concurrent enrollment in MSCI 2371.

MSCI 2370 - Innovative Team Leadership

3 sem. hrs.
MSCI 2370/MSL 201 explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework. Aspects of personal motivation and team building are practiced planning, executing and assessing team exercises. While participation in the leadership labs is not mandatory during the Military Science Level II (MSL II) year, significant experience can be gained in a multitude of areas and participation in the labs is highly encouraged. The focus continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation and squad tactics. Case studies will provide a tangible context for learning the Soldier's Creed and Warrior Ethos as they apply in the contemporary operating environment.

MSCI 2371 - Foundations of Tactical Leadership

3 sem. hrs.
MSCI 2371/MSL 202 examines the challenges of leading tactical teams in the complex contemporary operating environment (COE). This course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. MSCI 2371 provides a smooth transition into MSCI 3303. Cadets develop greater self awareness as they assess their own leadership styles and practice communication and team building skills. COE case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios.

MSCI 3103 - Adaptive Team Leadership Lab

1 sem. hrs. lab
The lab component explores the practical applications of the lessons being taught in the classroom. Students will learn to apply

leadership strategies and styles as they plan, execute and assess individual and team exercises. The emphasis is on exploring, evaluating, and developing skills in decision-making, and persuading and motivating team members in the contemporary operating environment (COE). The lab continues to build on developing knowledge of the leadership attributes and core leader competencies though the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation, individual, and squad tactics. Concurrent enrollment in MSCI 3303.

MSCI 3104 - Applied Team Leadership Lab

1 sem. hrs. lab
The lab component explores the practical applications of the lessons being taught in the classroom. Students will learn to apply leadership strategies and styles as they plan, execute and assess individual and team exercises. The emphasis is on exploring, evaluating, and developing skills in decision-making, and persuading and motivating team members in the contemporary operating environment (COE). The lab continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation, individual, and squad tactics. Concurrent enrollment in MSCI 3304.

MSCI 3303 - Adaptive Team Leadership

3 sem. hrs.
MSCI 3303/MSL 301 this is an academically challenging course where you will study, practice, and apply the fundamentals of Army leadership, Officership, Army values and ethics, personal development, and small unit tactics at the team and squad level. At the conclusion of this course, you will be capable of planning, coordinating, navigating, motivating and leading a team or squad in the execution of a tactical mission during a classroom practical exercise (PE), a Leadership Lab, or during a Situational Training Exercise (STX) using Outcomes Based Training and Education (OBT&E). OBT&E will help prepare you for success at the ROTC Leader Development and Assessment Course (LDAC) which you will attend next summer. OBT&E will also help you critically think, adapt in a complex environment, and achieve the desired results. This course includes reading assignments, homework assignments, small group assignments, briefings, case studies, and practical exercises, a mid-term exam, and a final exam. You will receive systematic and specific feedback on your leader attributes values and core leader competencies from your instructor and other ROTC cadre and MS IV Cadets who will evaluate you using the ROTC Leader Development Program (LDP) model. Prerequisite: Approval of Professor of Military Science.

MSCI 3304 - Applied Team Leadership

3 sem. hrs.
MSCI 3304/ MSL 302 this is an advanced academically challenging course where you will study, practice, and apply the fundamentals of Army leadership, Officership, Army values and ethics, personal development, and small unit tactics at the team and squad level. At the conclusion of this course, you will be capable of planning, coordinating, navigating, motivating and leading a team or squad in the execution of a tactical mission during a classroom PE, a Leadership Lab, or during a Situational Training Exercise (STX) using Outcomes Based Training and education (OBT&E) will help prepare you for success at the ROTC Leader Development and Assessment Course (LDAC) which you will attend next summer. OBT&E will also help you critically think, adapt in a complex environment, and achieve the desired results as a Second Lieutenant in the U.S. Army. This course includes reading assignments, homework assignments, small group assignments, briefings, case studies, and practical exercises, a mid-term exam, and a final exam. You will receive continued systematic and specific feedback on your leader attributes values and core leader competencies from me and other ROTC cadre and MS IV Cadets who will evaluate you using the ROTC Leader Development Program (LDP) model. Prerequisite: Approval of Professor of Military Science.

MSCI 3499 - Leadership Development Assessment Course (LDAC)

4 sem. hrs.
Four weeks of instruction and practical application in field training, demonstration of leadership capabilities, and leadership opportunities of problem analysis, decision making, and troop-leading. CR/NC only. Prerequisite: MSCI 3303, 3304 and a ROTC contracted Cadet and approval of the Professor of Military Science.

MSCI 4103 - Adaptive Leadership Lab

1 sem. hrs. lab
The lab component explores the practical applications of the lessons being taught in the classroom. Students will learn to apply leadership strategies and styles as they plan, execute and assess individual and team exercises. The emphasis is on coaching, mentoring, evaluating, and developing skills of younger cadets in their decision making, and ability to persuade and motivate team members in the contemporary operating environment (COE). The lab continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation, individual, and squad tactics. Concurrent enrollment in MSCI 4303.

MSCI 4104 - Leadership in a Complex World Lab

1 sem. hrs. lab
The lab component explores the practical applications of the lessons being taught in the classroom. Students will learn to apply leadership strategies and styles as they plan, execute and assess individual and team exercises. The emphasis is on coaching, mentoring, evaluating, and developing skills of younger cadets in their decision making, and ability to persuade and motivate team members in the contemporary operating environment (COE). The lab continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation, individual, and squad tactics. Concurrent enrollment in MSCI 4304.

MSCI 4303 - Adaptive Leadership

3 sem. hrs.
MSCI 4303/MSL 401 is a practical application of adaptive leadership. Throughout the semester, students are assigned the duties and responsibilities of an Army staff officer and must apply the fundamentals of principles of training, the training management, the Army writing style and military decision making to weekly training meetings. During these weekly training meetings, the student will plan, execute and assess ROTC training and recruiting events. Students will study the special trust proposed to Army Officers by the US Constitution and the President of the United States--a special trust given to no other civilian professions. Students will study how Army values and leader ethics are applied in the Contemporary Operating Environment and how these values and ethics are relevant to everyday life. The student will study the Army officer's role in the Uniform Code of Military Justice, the counseling of subordinates, administrative actions and the management of an Army Officer's career. Students will be given numerous opportunities to train, mentor and evaluate underclass students enrolled in the ROTC Basic Course while being mentored and evaluated by experienced ROTC cadre. Prerequisite: Approval of Professor of Military Science.

MSCI 4304 - Leadership in a Complex World

3 sem. hrs.
MSCI 4304/MSL 402 explores the dynamics of leading in the complex situations of current military operations in the contemporary operating environment (COE). You will examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. You also explore aspects of interacting with non-government organizations, civilians on the battlefield, and host nation support.The course places significant emphasis on preparing you for BOLC II and III, and your first unit of assignment. It uses case studies, scenarios, and "What Now, Lieutenant?" exercises to prepare you to face the complex ethical and practical demands of leading as a commissioned officer in the United States Army. Prerequisite: Approval of Professor of Military Science.

MSCI 4305 - Advanced Problem Solving

3 sem. hrs.
Military Science special problems course designed for individual study in modern day military structure and policies. Prerequisite: Approval of Professor of Military Science.

MSCI 4696 - Military Science Directed Individual Study

1-6 sem. hrs.
Programs will be designed for individual cases through special permission of the Department Chair and Dean. May be repeated for credit when the topic varies. Prerequisite: Approval of Professor of Military Science.

Music

MIND 3311 - Applications of Music Technology

3 sem. hrs.
Designed for both music majors and non-majors, this course will focus on hands-on learning in a workshop environment. Students will gain perspective on the people, procedures, data, software and hardware associated with the creation of music. Topics discussed include: computer proficiency, MIDI, computer based music notation, sequencing music evaluation, music and the Internet, and current trends in music technology.

MIND 3312 - Recording Techniques I

3 sem. hrs.
Designed for both music majors and non-majors, this course is an examination of the art of audio recording. The curriculum will cover signal flow of the mixing console as it applies to both recording and sound reinforcement; microphones and techniques of application; use of sonic effects; recording devices (Digital, and Hard Disk); synchronization formats; etc.

MIND 3313 - Recording Techniques II

3 sem. hrs.
A continuation of MIND 3312 Recording Techniques. The curriculum will cover advanced topics regarding digital console technology, power and ground related issues, studio acoustics and design, digital audio technology, multimedia and web applications, amplifiers, noise reduction, monitoring, surround sound, and mastering procedures.

MIND 3314 - Live Sound Engineering

3 sem. hrs.
Designed for both music majors and non-majors, an overview of the basic principles of sound and reinforcement and how audio can be manipulated utilizing current live sound technology. Topics will include signal flow, microphone selection and placement, signal processing, and mixing.

MIND 3315 - Musical Acoustics

3 sem. hrs.
Designed for both music majors and non-majors, an overview of acoustics with emphasis in the areas of scientific knowledge that are relevant to music: the physiological properties of sounds; the effect of acoustical environment; the acoustical behavior of musical instruments; and the various applications of electronics and computers to the production, reproduction, and composition of music.

MIND 3316 - Introduction to MIDI Sound Synthesis and Control

3 sem. hrs.
Designed for both music majors and non-majors, this course introduces students to the Musical Instrument Digital Interface (MIDI) sequencing using computer software and keyboard synthesizers. Students learn concepts, basic theory and techniques, and the application of MIDI techniques to the production of music. Hands-on projects are completed using MIDI keyboard synthesizers and sequencer software.

MIND 3320 - Music Business Survey

3 sem. hrs.
Designed for both music majors and non-majors, this course is an overview of the practices and procedures of the music industry, including such topics as career possiblities, publishing, labels, marketing, and copyrights. It also includes an overview of career options will include performer, composer, record producer and engineer, artist manager, booking agent, concert promoter, sales, marketing, and entertainment attorney.

MIND 3321 - Music Business II

3 sem. hrs.
Designed for both music majors and non-majors, this course is an in depth examination of the practices and procedures of the

music industry that pertain to accounting, taxes, copyright, licensing, marketing and contracts. The primary objective of this course is to develop a working knowledge of the music industry and to remain in compliance with the U.S. legal system.

MIND 3322 - Entertainment Law and the Music Industry

3 sem. hrs.
Designed for both music majors and non-majors, an overview of the legal practices and ramifications of United States law and its influence on the music industry. Topics will include intellectual property, business structures, contracts, distribution regulations, and copyrights. Legal practices for entertainment mediums will include television, film, live stage performances, recording, and publishing.

MIND 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application.

MIND 4398 - Applied Experience

3 sem. hrs.
See College description. Offered on application.

MUSI 1116 - Aural Training I

1 sem. hrs. TCCNS Equivalent: MUSI 1116
A companion course to MUSI 1311, designed to strengthen the understanding of theoretical principles through the development of aural perception and skills; exercises in melodic, harmonic, and rhythmic dictation; and drill in sight singing.

MUSI 1117 - Aural Training II

1 sem. hrs. TCCNS Equivalent: MUSI 1117
Continuation of MUSI 1116; a companion course to MUSI 1312. Prerequisite: Passing score on the Music Department Theory Fundamentals Placement Exam OR prior completion of MUSI 1116 and MUSI 1311 with grades of “C” or better.

MUSI 1181 - Class Piano I

1 sem. hrs. TCCNS Equivalent: MUSI 1181
Group instruction in piano for music majors, covering piano technique and literature, major and minor scales, transposition, sight reading, and simple harmonization of melodies. In extraordinary circumstances, students may substitute one semester of secondary applied piano for this course. Keyboard majors accepted for degree-level study should substitute four semesters of Secondary Applied Studio.

MUSI 1182 - Class Piano II

1 sem. hrs. TCCNS Equivalent: MUSI 1182
Group instruction in piano for music majors, covering piano technique and literature, major and minor scales, transposition, sight reading, and simple harmonization of melodies. In extraordinary circumstances, students may substitute one semester of secondary applied piano for this course. Keyboard majors accepted for degree-level study should substitute four semesters of Secondary Applied Studio.

MUSI 1301 - Fundamentals of Music

3 sem. hrs.
Designed to teach beginning music students the basic tenet of music theory: note reading, rhythm, scales, key signatures, basic intervals and triads, and solfeggio. There are no prerequisites, and this course is open to music majors and non-music majors.

MUSI 1302 - Non-major Class Piano I

3 sem. hrs.
Group instruction in the elements of piano playing, designed for the non-major. No previous experience necessary.

MUSI 1303 - Basic Guitar I

3 sem. hrs. TCCNS Equivalent: MUSI 1303
Group instruction in the fundamentals of guitar playing, designed for the non-major. The student must furnish an acceptable instrument. No previous experience necessary.

MUSI 1306 - Understanding and Enjoying Music

3 sem. hrs. TCCNS Equivalent: MUSI 1306
A course for the non-music major. Study of selected music literature of contrasting styles and forms with emphasis on listening to music with understanding. Satisfies the university core curriculum requirement in fine arts.

MUSI 1307 - Elements of Musical Style

3 sem. hrs. TCCNS Equivalent: MUSI 1307
A survey of selected western and non-western musical styles, based upon the analysis of the characteristic use of the elements of music. Required for music majors and recommended for non-majors with a significant high school music background. Satisfies the university core curriculum requirement in fine arts.

MUSI 1310 - History of Rock and Roll

3 sem. hrs.
A general survey of composers, performers, and styles of rock and roll. Emphasis on understanding stylistic elements of music, including rhythm, texture, form, and harmony.

MUSI 1311 - Musicianship I

3 sem. hrs. TCCNS Equivalent: MUSI 1311
First principles of chord progression and phrase harmonization. Theory assessment required prior to enrollment.

MUSI 1312 - Musicianship II

3 sem. hrs. TCCNS Equivalent: MUSI 1312
Continuation of MUSI 1311, with a study of more advanced chord structures and their placement within the phrase through written exercises, analysis, and correlated keyboard projects. Prerequisite: Passing score on the Music Department Theory Fundamentals Placement Exam OR prior completion of MUSI 1311 and MUSI 1116 with grades of “C” or better.

MUSI 2116 - Aural Training III

1 sem. hrs. TCCNS Equivalent: MUSI 2116
Continuation of MUSI 1117; a companion course to MUSI 2311. Designed to further the understanding of advanced theoretical principles and techniques through related aural exercises, dictation, and sight singing. Prerequisite: Prior completion of MUSI 1117 and MUSI 1312 with grades of “C” or better.

MUSI 2117 - Aural Training IV

1 sem. hrs. TCCNS Equivalent: MUSI 2117
Continuation of MUSI 2116; a companion course to MUSI 2312. Prerequisite: Prior completion of MUSI 2116 and MUSI 2311 with grades of “C” or better.

MUSI 2181 - Class Piano III

1 sem. hrs. TCCNS Equivalent: MUSI 2181
Group instruction in piano for music majors, covering piano technique and literature, major and minor scales, transposition, sight reading, and simple harmonization of melodies. In extraordinary circumstances, students may substitute one semester of secondary applied piano for this course. Keyboard majors accepted for degree-level study should substitute four semesters of Secondary Applied Studio.

MUSI 2182 - Class Piano IV

1 sem. hrs. TCCNS Equivalent: MUSI 2182
Group instruction in piano for music majors, covering piano technique and literature, major and minor scales, transposition, sight reading, and simple harmonization of melodies. In extraordinary circumstances, students may substitute one semester of secondary applied piano for this course. Keyboard majors accepted for degree-level study should substitute four semesters of Secondary Applied Studio.

MUSI 2302 - Non-major Class Piano II

3 sem. hrs.
Extension of skill development begun in MUSI 1302 Non-Major Class Piano I. Prerequisite: successful completion of MUSI 1302 or permission of instructor.

MUSI 2303 - Basic Guitar II

3 sem. hrs.
Extension of skill development begun in MUSI 1303 - BASIC GUITAR I. The student must furnish an acceptable instrument. Prerequisite: successful completion of MUSI 1303 or prior permission of instructor.

MUSI 2311 - Musicianship III

3 sem. hrs. TCCNS Equivalent: MUSI 2311
Continuation of MUSI 1312. A broad summary of classical and chromatic harmony, explored through written exercises, analysis, and. correlated keyboard drill. Prerequisite: Prior completion of MUSI 1312 and MUSI 1117 with grades of “C” or better.

MUSI 2312 - Musicianship IV

3 sem. hrs. TCCNS Equivalent: MUSI 2312
Continuation of MUSI 2311. An exploration of 20th-century techniques through written exercises, analysis, and correlated keyboard drill. Prerequisite: Prior completion of MUSI 2311 and MUSI 2116 with grades of “C” or better.

MUSI 3085 - Junior Recital

0 sem. hrs.
Required for all students presenting a Junior Recital in partial fulfillment of the requirements for the Bachelor of Music in Performance Degree. Specific policies governing the presentation and evaluation of such recitals are given in the document, Preparing and Presenting Degree Recitals, available from the Music Department Chair. Requires concurrent enrollment in an appropriate Principal Studio course. Graded CR/NC.

MUSI 3162 - Diction for Singers I

1 sem. hrs.
Learning to use the International Phonetic Alphabet (IPA) with sufficient fluency to effectively teach and learn proper pronunciation of song texts in English and French.

MUSI 3165 - Diction for Singers II

1 sem. hrs.
Learning to use the International Phonetic Alphabet (IPA) with sufficient fluency to effectively teach and learn proper pronunciation of song texts in Italian and German.

MUSI 3166 - Woodwind Techniques I

1 sem. hrs.
Basic techniques of playing and teaching the oboe, bassoon, and saxophone. Includes a survey of pedagogical materials and basic performance literature. For music majors only.

MUSI 3167 - Woodwind Techniques II

1 sem. hrs.
Basic techniques of playing and teaching the flute and clarinet. Includes a survey of pedagogical materials and basic performance literature. For music majors only.

MUSI 3168 - Brass Techniques I

1 sem. hrs.
Basic techniques of playing and teaching the trumpet and French horn. Includes a survey of pedagogical materials and basic performance literature. For music majors only.

MUSI 3169 - Brass Techniques II

1 sem. hrs.
Basic techniques of playing and teaching the trombone, euphonium, and tuba. Includes a survey of pedagogical materials and basic performance literature. For music majors only.

MUSI 3170 - Voice Techniques for Instrumentalists

1 sem. hrs.
Group instruction and practical experience in the fundamentals of voice production and song interpretation for the instrumental music educator. Includes a survey of pedagogical materials and basic performance literature. For music majors only.

MUSI 3188 - Percussion Techniques

1 sem. hrs.
Basic techniques of playing and teaching the instruments of the percussion family. Includes a survey of pedagogical materials and basic performance literature. For music majors only.

MUSI 3189 - String Techniques

1 sem. hrs.
Basic techniques of playing and teaching the violin, viola, ‘cello, and string bass. Includes a survey of pedagogical materials and basic performance literature. For music majors only.

MUSI 3252 - Foundations of Music Programs

2 sem. hrs.
A survey of the historical, social, and philosophical bases of music education in the United States, psychological theories of learning and musical responsiveness, and studies of how these foundations have been applied in various types of music curricula. Prerequisite: Prior completion of MUSI 2311 and MUSI 2116 with grades of "C" or better.

MUSI 3253 - Basic Conducting

2 sem. hrs.
A skills acquisition course designed to give students competence in basic baton techniques and musical control of an ensemble. Includes score study and musical terminology. Prerequisite: Prior completion of MUSI 2311 and MUSI 2116 with grades of "C" or better.

MUSI 3310 - History of Jazz

3 sem. hrs.
A study of jazz styles, influences, trends, innovators, and literature. Readings include interviews and articles that discuss origins of jazz, definitions of jazz, and race politics of jazz. No previous experience is necessary.

MUSI 3311 - Popular and Jazz Harmony I

3 sem. hrs.
Popular and Jazz Harmony is a class designed to develop comprehensive skills in harmony, rhythm, and melody as applied to

popular music and jazz idioms. Course work is designed to develop practical knowledge in music grammer, vocabulary and structure currently utilized in a variety of professional settings as well as improve aural skills. Curriculum is organized to assist professional musicians as well as music industry professionals.

MUSI 3334 - Music Cultures of the World

3 sem. hrs.
The course introduces the student to ethnomusicology and the cross-cultural study of music and society. It emphasizes the role of music in human life, and explores music and performance from around the world. The student will learn about classical, folk and popular styles found on all seven continents. This course is appropriate for any student of any musical background.

MUSI 3345 - Composition

1-3 sem. hrs.
Creative writing with a view toward developing an individual style of musical composition. Variable credit, 1, 2, or 3 hrs. One private lesson per week. Prior permission of the instructor is required. Prerequisite: Prior completion of MUSI 2312 and MUSI 2117 with grades of "C" or better. May be repeated for credit. Music Studio course fee schedule is applicable to this course.

MUSI 3346 - Form and Analysis of Tonal Music

3 sem. hrs.
Analysis of the melodic and harmonic design of tonal music, including the aural and visual analysis of scores for piano, voice, chamber ensembles, and orchestra. Prerequisite: Prior completion of MUSI 2312 and MUSI 2117 with grades of “C” or better.

MUSI 3354 - Advanced Conducting

3 sem. hrs.
A continuation of MUSI 3252. Advanced experiences with score preparation and effective ensemble rehearsal and management techniques. Prerequisite: Prior completion of MUSI 3252 with a grade of "C" or better.

MUSI 3370 - Class Voice

3 sem. hrs.
Group instruction and practical experience in the fundamentals of voice production, music reading, and song interpretation. Dramatic stage movement and singing will be explored using Classical and Broadway song literature. This course is designed for the non-major. No previous experience is necessary.

MUSI 4085 - Senior Recital

0 sem. hrs.
Required for all students presenting a Senior Recital in partial fulfillment of the requirements for any music degree. Specific policies governing the presentation and evaluation of such recitals are given in the document, Preparing and Presenting Degree Recitals, available from the Music Program Coordinator. Requires concurrent enrollment in an appropriate Principal Studio course. Graded CR/NC.

MUSI 4334 - History of Western Music I

3 sem. hrs.
An in-depth study of the evolution of Western musical style from antiquity through the 18th-century. Prerequisite: Prior completion of MUSI 1307, MUSI 2312, and MUSI 2117 with grades of "C" or better.

MUSI 4335 - History of Western Music II

3 sem. hrs.
Continuation of MUSI 4334, an in-depth study of the evolution of Western musical style from the age of Beethoven to the present. Prerequisite: Prior completion of MUSI 4334 with a grade of “C” or better.

MUSI 4340 - Studies in Repertoire

3 sem. hrs.
Systematic examination of the history and literature of a specific performance medium.

MUSI 4346 - Orchestration and Arranging

3 sem. hrs.
The compass, timbre, and techniques of arranging and/or orchestration for instruments and/or voices. Practical experience in arranging for orchestra, band, and other instrumental and vocal combinations. Prerequisite: Prior completion of MUSI 2312 and MUSI 2117 with grades of "C" or better.

MUSI 4355 - Music for Young Children

3 sem. hrs.
Study of musical development in children in grades K-6. Study of and practical experience with pedagogical approaches and materials appropriate for that age group. Prerequisite: Prior completion of MUSI 3252 with a grade of "C" or better.

MUSI 4357 - Choral Literature and Techniques

3 sem. hrs.
Advanced study of the literature, pedagogy, and management techniques required for successful vocal ensembles in secondary schools. Prerequisite: Prior completion of MUSI 3253 with a grade of "C" or better.

MUSI 4358 - Instrumental Literature and Techniques

3 sem. hrs.
Advanced study of the literature, pedagogy, and management techniques required for successful instrumental ensembles in secondary schools. Includes a segment pertaining to the development of marching band shows. Prerequisite: Prior completion of MUSI 3253 with a grade of "C" or better.

MUSI 4360 - Studies in Pedagogy

3 sem. hrs.
Methods, materials and psychology of presenting musical materials to students at various ages. Evaluation of teaching materials and techniques. Classes are organized by specific performance areas.

MUSI 4385 - Senior Capstone

3 sem. hrs.
The Senior Capstone is intended to provide students seeking the Bachelor of Arts in Music with an opportunity to demonstrate their musical scholarship through scholarly analysis and writing within a field of music of their choosing. May include a performance component, as in a lecture recital, but musical performance may comprise no more than 40% of the capstone project.

MUSI 4390 - Topics in Music

1-3 sem. hrs.
May be repeated for credit when topics vary.

MUSI 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application.

MUSI 4398 - Applied Experience

3 sem. hrs.
See College description. Offered on application.

Music (Applied)

MUAP 11xx - Principal Studio

1 sem. hrs.
The first two semesters of private studio for all students pursuing any of the three music degrees. Normally unavailable to students not majoring in music. One hour of private instruction and a one-hour studio/recital class each week.

MUAP 11xx - Secondary Studio

1 sem. hrs.
This level of study is designed for music majors seeking instruction in performance areas secondary to their major applied field. Study at this level is open to students whose majors are outside the field of music only under very limited circumstances, and with the prior permission of the Music Department Chair. One half-hour lesson each week. Requires permission of the department chair.

MUAP 21xx - Principal Studio

1 sem. hrs.
The appropriate studio level for sophomore students enrolled in the Bachelor of Arts or Bachelor of Music with Teacher Certification degree programs. Normally unavailable to students not majoring in music. One hour of private instruction and a one-hour studio/recital class each week.

MUAP 21xx - Secondary Studio

1 sem. hrs.
This level of study is designed for music majors seeking instruction in performance areas secondary to their major applied field. Study at this level is open to students whose majors are outside the field of music only under very limited circumstances, and with the prior permission of the Music Department Chair. One half-hour lesson each week. Requires permission of the department chair.

MUAP 23xx - Principal Studio

3 sem. hrs.
Sequence of studio courses limited to sophomore students enrolled in the Bachelor of Music in Performance degree program.

One hour of private instruction and a one-hour studio/recital class each week.

MUAP 31xx - Secondary Studio

1 sem. hrs.
This level of study is designed for music majors seeking instruction in performance areas secondary to their major applied field. Study at this level is open to students whose majors are outside the field of music only under very limited circumstances, and with the prior permission of the Music Department Chair. One half-hour lesson each week. Requires permission of the department chair.

MUAP 32xx - Principal Studio

2 sem. hrs.
The appropriate studio level for junior students enrolled in the Bachelor of Arts or Bachelor of Music with Teacher Certification degree programs. Normally unavailable to students not majoring in music. One hour of private instruction and a one-hour studio/recital class each week.

MUAP 33xx - Principal Studio

3 sem. hrs.
Sequence of studio courses limited to junior students enrolled in the Bachelor of Music in Performance degree program. One hour of private instruction and a one-hour studio/recital class each week.

MUAP 41xx - Secondary Studio

1 sem. hrs.
This level of study is designed for music majors seeking instruction in performance areas secondary to their major applied field. Study at this level is open to students whose majors are outside the field of music only under very limited circumstances, and with the prior permission of the Music Department Chair. One half-hour lesson each week. Requires permission of the department chair.

MUAP 42xx - Principal Studio

2 sem. hrs.
The appropriate studio level for senior students enrolled in the Bachelor of Arts or Bachelor of Music with Teacher Certification degree programs. Normally unavailable to students not majoring in music. One hour of private instruction and a one-hour studio/recital class each week.

MUAP 43xx - Principal Studio

3 sem. hrs.
Sequence of studio courses limited to senior students enrolled in the Bachelor of Music in Performance degree program. One hour of private instruction and a one-hour studio/recital class each week.

Music (Ensemble)

MUEN 1122 - Concert Band

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester. For rotation of music courses see departmental office.

MUEN 1123 - Symphonic Winds

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1124 - Concert Orchestra

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1127 - Pep Band

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble

director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1128 - Stage Band

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1131 - Piano Accompanying

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1132 - Classical Guitar Ensemble

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1133 - Percussion Ensemble

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1135 - Brass Ensemble

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1136 - Woodwind Choir

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1137 - Clarinet/Sax Ensemble

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1138 - Jazz Guitar Ensemble

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1139 - Flute Ensemble

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1140 - String Ensemble

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1143 - Chorale

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1151 - University Singers

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1153 - Chamber Choir

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1157 - Performance for Singers

1 sem. hrs.
Membership in music ensembles is open to all University students. Ensembles meet for periods of rehearsal ranging from two to five hours each week. All ensemble courses carry one semester hour of credit, and all may be repeated for credit. Some degree programs limit the amount of such credit that may be applied to the degree. In some instances, an audition with the ensemble director may be required for admission to the course. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

MUEN 1158 - Opera Main Stage Productions

1-3 sem. hrs.
This course is an intensive study of opera role preparation and performance culminating in fully staged opera productions or opera scenes programs. Membership in this music ensemble is open to all university students by competetive audition. All ensemble courses carry one semester hour of credit, and may be repeated for credit. Some degree programs limit the amount of such credit that jay be applied to the degree. Every full-time music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.

Mexican American Studies

MXAS 3301 - Introduction to Mexican American Studies

3 sem. hrs.
An introduction to the area of Chicano Studies including the cultural, historical, and linguistic approaches. This basic course includes the study of major authors, significant historical events, and important linguistic considerations.

MXAS 3307 - Mexican American Folklore

3 sem. hrs.
Studies folklore through selected examples of traditional Mexican and Mexican American culture. Possible topics include: folk songs, folk healing, folk art, fold foods, testimonials, tales, proverbs, riddles, or other cultural element characteristics of the Mexican American experience.

MXAS 3311 - Mexican American Literature

3 sem. hrs.
An analysis of Chicano literature. Special emphasis will be given to the new consciousness of the Chicano in the most current literature of the various genres.

MXAS 4390 - Topics in Mexican American Studies

3 sem. hrs.
May be repeated when topics vary.

Nursing

NURS 3150 - Professional Nursing Issues I

(1:0)
Concentrates on legal and ethical issues affecting the nurse as an individual and a professional, and health care delivery to clients, groups and aggregates. Consideration is given to self-discovery, personal assertiveness, role conflict, negotiation and collective bargaining. Students are encouraged to apply critical thinking strategies during classroom discussions and presentations. Prerequisites: NURS 3318, 3342, 3435, 3614

NURS 3318 - Nurse as therapeutic Communicator

3 sem. hrs. (3:0)
Emphasis is on caring communication as an essential dimension of professional nursing. Theories are presented to explain the dynamic relationship between human behavior, health, and illness, and the impact of interpersonal relationship skills to effect positive changes in individuals and their families. Nurse communication in the role of educator will be introduced as part of the teaching/learning course content.

NURS 3342 - Use of Pharmacology Principles

3 sem. hrs. (3:0)
Focuses on the basic drug classifications, concepts and principles of pharmacology, with special consideration for the nursing role in developing a comprehensive approach to the clinical application of drug therapy through the use of the nursing process. Nursing implications relative to the utilization of drug therapy are examined. Dosage calculations are evaluated for competency. (Is a pre-requisite for admission into the nursing program.)

NURS 3435 - Health Assessment

4 sem. hrs. (3:3)
Focuses on health assessment skills and application of the nursing process in selected pathophysiological disorders through analysis and synthesis of information obtained from subjective and objective data collection methodologies. Specified frameworks are utilized for data categorization and processing. The data are used to make judgments about health status or determine care needs for a given individual. Students are assigned to a weekly two-hour lab to practice under supervision and demonstrate health assessment skills.

NURS 3435 - Health Assessment - RN/BSN

4 sem. hrs. (3:3)
Focuses on health assessment skills and application of the nursing process in selected pathophysiological disorders through analysis and synthesis of information obtained from subjective and objective data collection methodologies. Specified frameworks are utilized for data categorization and processing. The data are used to make judgments about health status or determine care needs for a given individual.

NURS 3548 - Nursing Care of Children and their Families

5 sem. hrs. (3:6)
Applying a family-centered approach, this course focuses on health promotion, acute and chronic health conditions, and rehabilitative needs of children. Emphasis is placed on developmental, physiological, psycho-social, cultural, and spiritual care of the child within the family unit. Using the nursing process, strategies are formulated for promoting and maintaining optimal functioning of the child-family unit and for enhancing the strengths of the family unit. Clinical activities emphasize the application of theory to practice in a variety of acute care settings. Prerequisites: NURS 3318, 3342, 3435, and 3614.

NURS 3550 - Nursing Care of Parents/newborns

5 sem. hrs. (3:6)
A study of the theoretical and empirical basis for nursing care of childbearing families using both nursing and developmental theories. Biopsychosocial factors such as legal/ethical and cultural considerations related to pregnancy, birth and newborn periods are included. A historical overview of obstetrical advances and parent-child nursing will be presented. Practice in providing nursing care to families during each phase of the childbearing cycle will occur in selected local hospitals and clinics. The nursing process is used with emphasis on the theoretical and empirical basis of practice. Prerequisites: NURS, 3318, 3614, 3342, 3435

NURS 3614 - Fundamentals of Nursing Care

6 sem. hrs. (3:9)
Fundamentals of Nursing Care is developed for the incoming nursing student and introduces them to nursing practice and philosophies that underpin clinical practice. Fundamental nursing skills are an integral part of the nursing experience and include, but are not limited to, patient safety, with a focus on techniques related to environmental concerns, positioning and transporting, asepsis and sterile technique, medication administration, and selected intrusive therapies. The critical thinking process, art of caring, and nursing theories upon which clinical practice is based will be integrated throughout the course to provide and manage safe, holistic care practices. The campus laboratory and clinical settings will afford practical experiences that include simulation and direct patient care interventions. These experiences facilitate learner application and integration of the principles and skills taught in the theory portion of this class. Students are expected to demonstrate beginning competency in application of the nursing process. Prerequisite NURS 4322; Co-requisite: 3435, 3318.

NURS 3628 - Nursing Care of Adults I

6 sem. hrs. (3:9)
Introduces the student to the use of the nursing process in the care of adults with chronic or non-complex illness. Uses a systems approach to discuss the effects of illness on individual and family, and to examine the disruption of growth and development patterns across the lifespan from young adult to senior years. The course includes clinical laboratory to allow the student the opportunity to apply theoretical concepts to clinical practice in diverse adult populations. Prerequisites: NURS 3318, 3435, 3614, 3342

NURS 4150 - Professional Nursing Issues II

(1:0)
Concentrates on economic and political issues affecting the nurse as an individual and a professional, and health care delivery to clients, groups and aggregates. Consideration is given to self-discovery, personal assertiveness, role conflict, negotiation and collective bargaining. Students are encouraged to apply critical thinking strategies during classroom discussions and presentations. Prerequisites/Corequisites NURS 3628, 4564, 3548, 3550

NURS 4250 - Professional Nursing Issues - Generic & RN/BSN

2 sem. hrs. (2:0)
Concentrates on legal, ethical, economic and political issues affecting the nurse as an individual and a professional, and health care delivery to clients, groups and aggregates. Consideration is given to self-discovery, personal assertiveness, role conflict, negotiation and collective bargaining. Students are encouraged to apply critical thinking strategies during classroom discussions and presentations.

NURS 4318 - Nurse as Research Consumer

3 sem. hrs. (3:0)
Study of theory and research as a base for nursing practice. Critically analyzes published research studies with regard to implications for clinical practice. The course is planned for collaborative peer examination of the research process through critique of nursing studies. Prerequisite: MATH 1442, 1342, or 2342. The web-based version of this course (NURS 4318W01) satisfies the university computer literacy requirement.

NURS 4318 - Nurse as Research Consumer -RN/BSN

3 sem. hrs. (3:0)
A study of theory and research as a base for nursing practice. Critical analysis of published research studies with regard to implications for clinical practice. The course is planned for collaborative peer examination of the research process through critique of nursing studies. Pre/Co-requisite: MATH 1342, 1442, or 2342. The web-based version of this course (NURS 4318W01) satisfies the university computer literacy requirement.

NURS 4320 - Principles and Concepts of Patient Education - RN/BSN

3 sem. hrs. (3:0)
Provides opportunities for students to apply principles of teaching and learning with clients, families and identified groups. Special emphasis is placed on patient teaching within a rapidly changing health care environment. Students will examine learning readiness and intervene with groups and families from diverse backgrounds and educational preparation.

NURS 4322 - Health Alterations

3 sem. hrs. (3:0)
Relates manifestations of disease, risk factors for disease, and the principles of pathology underlying illness and injury to

therapeutic nursing interventions and outcomes. (Is a prerequisite for admission into the nursing program.) Prerequisites: BIOL 2401 and BIOL 2402. May be taken in place of BIMS 3401 Pathophysiology.

NURS 4322 - Health Alterations - RN/BSN

3 sem. hrs. (3:0)
Relates manifestations of disease, risk factors for disease, and the principles of pathology underlying illness and injury to therapeutic nursing interventions and outcomes. Prerequisites: BIOL 2401 and BIOL 2402. Maybe taken in place of BIMS 3401 Pathophysiology.

NURS 4324 - Nurse as Caregiver - RN/BSN

3 sem. hrs. (3:0)
Emphasis is on socialization into professional nursing. Theories are presented to explain the relationship between human behavior, health and illness and the impact of interpersonal relationship skills to effect positive changes in individuals. Application of caring theories as a basis for decision-making in nursing practice with clients and families is the focus of clinical activities.

NURS 4370 - Nurse Coordinating Care

3 sem. hrs. (2:3)

This class provides a theoretical and experiential approach to identifying the coordinating role of the professional nurse within health care and its delivery. Current theories of management, leadership, and change are examined and related to nursing practice. Critical thinking is required in case analysis and student assessments of their own thinking, ideas and use of intellect.

NURS 4380 - Nursing Honors

3 sem. hrs.
Provides superior nursing students who have demonstrated ability to function independently an opportunity to design and implement a creative learning experience in an area of interest. Prerequisites: Must be in last semester of senior year and meet eligibility requirements for nursing honors.

NURS 4390 - Dimensions in Nursing

1-3 sem. hrs.
Focuses on literature study and in-depth knowledge of selected topics relevant to the nurse as a professional provider of care or coordinator of care. Variable content is directed by faculty specialties.

NURS 4390 - Dimensions in Nursing - RN/BSN

3 sem. hrs.
Focuses on literature study and in-depth knowledge of selected topics relevant to the nurse as a professional provider of care or coordinator of care. Variable content is directed by faculty specialties.

NURS 4396 - Directed Independent Study

1-3 sem. hrs.
The College offers courses in directed independent study. The student must register for a specific number of credit hours according to a course plan approved by the Instructor, Undergraduate Chair, and the Dean in advance of registration.

NURS 4396 - Directed Independent Study RN/BSN

1-3 sem. hrs.
The College offers courses in directed independent study. The student must register for a specific number of credit hours according to a course plan approved by the instructor, Undergraduate Chair, and the Dean in advance of registration.

NURS 4465 - Care of the Individual within a Family -RN/BSN

4 sem. hrs. (2:6)
Utilizes a health patterns framework with systematic nursing inquiry to examine the impact of illness on families. In addition, primary, secondary, and tertiary prevention activities are emphasized as they relate to individuals, families, and aggregates. Data from individual and family assessment is used to judge and design interventions and evaluate client(s) outcomes.

NURS 4470 - Professional Transitions

4 sem. hrs. (2:6)

This capstone course focuses on the role of the developing professional nurse's ability to use evidence-based practice and quality standards to deliver safe holistic care to culturally diverse and complex clients and families. Emphasis is on the transition of the student nurse into a professional role which includes the ability to apply concepts related to leadership, interprofessional teamwork, informatics, and patient-centered care. Strategies for successful completion of the graduate licensure exam will be included.

NURS 4560 - Nursing Care of Community - RN/BSN

5 sem. hrs. (3:6)
Explores community health nursing, focusing on historical development, philosophy, health care systems, epidemiology, and individuals, families, and specific aggregate groups. Applies theoretical and empirical knowledge in using the nursing process in

community settings to promote, maintain and restore health. Focuses on transcultural nursing concepts, rural and home health care delivery. Progressively more independent behaviors are expected of students in community health practice. Diverse roles of the community and public health nurse are examined and a community assessment is completed using research and data processing skills. Prerequisites: NURS 4318, 4324.

NURS 4564 - Nursing Care of Psychiatric Clients

5 sem. hrs. (3:6)
Focus is on the nurse as a provider of care to individuals, families and groups experiencing psychiatric-mental health problems. Theoretical foundations for the practice of psychiatric-mental health nursing will be studied. Application of nursing process to promote, maintain or restore mental health of individuals, families and groups. During the clinical experience, students will demonstrate theory-based practice and collaboration with interdisciplinary team participants. Pre-Corequisite: NURS 3550, 3628

NURS 4628 - Nursing Care of Adults II

6 sem. hrs. (3:9)
Presents to the senior student critical thinking and problem-solving strategies for care of adults with acute or complex illness and/or injury. The effects of acute illness are examined in relation to the individual's developmental stage, culture, and gender. Building on Nursing Care of Adults I, a systems approach is used to analyze and intervene in alterations to the health of the individual and family. The course includes clinical laboratory to allow the student the opportunity to integrate theoretical concepts and clinical practice in diverse populations. Pre-Corequisites: NURS 3550, 3548 and 3628

NURS 4660 - Nursing Care of Community Health Clients

6 sem. hrs. (3:9)
Explores Community Health Nursing, focusing on historical development, philosophy, health care systems, epidemiology, and specific target groups. Primary, secondary and tertiary prevention activities are emphasized as they relate to individuals, families, and aggregates. Applies theoretical and empirical knowledge in using the nursing process in community settings to promote, maintain and restore health. Focuses on transcultural nursing concepts, rural and home health care delivery. Progressively more independent behaviors are expected of students in community health practice. Diverse roles of the community and public health nurse are examined and a community assessment is completed using research and data processing skills. Prerequisites: NURS. 3614, 3318, 3435

NURS 4670 - Nurse Coordinating Care

6 sem. hrs. (3:9)
Uses a systems framework and critical thinking strategies to study the coordinating role of the professional nurse within health care delivery. Current theories of management, leadership and change are examined and related to nursing practice. Focuses on synthesis of this knowledge to develop innovative and creative approaches to nursing practice. Applies theoretical and empirical concepts through supervised experiences gained in local health care institutions. Students will participate in several activities that demonstrate their understanding of leadership principles applied to nursing in their classroom and clinical course work. Prerequisites: NURS 4564, Pre-Corequisites: NURS 4318, 4628.

NURS 4671 - Leadership/management - RN/BSN

6 sem. hrs. (6:0)
Uses a systems framework and critical thinking strategies to study the coordinating role of the professional nurse within health care delivery. Current theories of management, leadership and change are examined and related to nursing practice. Focuses on synthesis of this knowledge to develop innovative and creative approaches to nursing practice. Applies theoretical and empirical concepts through experiences gained in local health care institutions. Prerequisites: NURS 4318, 4324

Operations Management

OPSY 4314 - Operations Management

3 sem. hrs.
The design, operation, and control of the transformation process in both service and production operations. Includes analysis and application of various decisions regarding site selection, process and facilities design, capacity planning, scheduling techniques, materials management, and cost and quality control. Prerequisites: ORMS 3310 and Junior standing or above.

OPSY 4345 - Materials Management and Purchasing

3 sem. hrs.
Management of ordering, storage and distribution of the materials and services purchased by the organization. Emphasis on skill and knowledge required in the practice of purchasing, inventory management and cost reduction in materials. Prerequisite: OPSY 4314 and Junior standing or above.

OPSY 4390 - Current Topics in Operations Management

3 sem. hrs.
Selected topics for special study related to operational functions, processes, or issues. May be repeated for credit when topics vary. Prerequisites: Junior standing or above, and others depending on topic. Contact the Dean’s office for information.

OPSY 4396 - Directed Individual Study

3 sem. hrs.
Individual supervised study and a final report. Prerequisites: permission of instructor, Junior standing or above, and others depending on selected topic. Inquire at the Dean's office for information.

Operations Research/Management Science

ORMS 3310 - Data Analysis and Statistics

3 sem. hrs.
A study of descriptive statistics, probability distributions, the normal distribution, confidence intervals and hypothesis testing, regression analysis and chi-square. Prerequisites: BUSI 0011, MATH 1314 and MISY 2305 or equivalents.

Philosophy

PHIL 1301 - Introduction to Philosophy

3 sem. hrs. TCCNS Equivalent: PHIL 1301
An examination of major philosophical issues such as the existence of God, freedom and determinism, moral rights and obligations, and the nature and limits of human knowledge. Meets the University Core Curriculum requirement for the Language, Philosophy, and Culture foundational component area.

PHIL 2303 - Introduction to Logic and Critical Thinking

3 sem. hrs. TCCNS Equivalent: PHIL 2303
Basic principles and techniques used in understanding, constructing, and evaluating arguments. Topics covered may include formal methods of analyzing arguments, informal fallacies, scientific reasoning, and moral arguments. Meets the University Core Curriculum requirement for the Mathematics foundational component area.

PHIL 2306 - Foundations of Professional Ethics

3 sem. hrs. 1.5:1.5

Lectures present overview of ethical theories and basic principles of ethical reasoning. Students also enroll in and attend weekly recitation sections, involving application of theories and principles to ethical problems that arise in various professions. Weekly lecture and recitation hours are designated above (lecture: recitation) following the semester hours.
This course satisfies the University core requirement for philosophy.

PHIL 3306 - History of Eastern Philosophy I

3 sem. hrs.

An historical and critical examination of traditional Indian philosophical and religious systems (such as various versions of Hinduism, Jainism, and Buddhism) and their relevance for contemporary people and societies.

PHIL 3307 - History of Eastern Philosophy II

3 sem. hrs.
A historical and critical examination of some of the philosophical and religious systems developed in China, Tibet, and Japan (such as various schools of Mahayana Buddhism, Taoism, Confucianism, and Zen Buddhism).

PHIL 3327 - American Philosophy

3 sem. hrs.

An introduction to American philosophy and the influential movement known as Pragmatism. The course focuses on the works of C.S. Peirce, William James, John Dewey, and George Santayana. Issues addressed include skepticism, the rejection of foundationalism, the role of belief in inquiry, verification and meaning, and the nature of truth.

PHIL 3342 - Philosophy of Love and Sex

3 sem. hrs.
This course is a study of the ethics of human relationships. Topics include friendship, romance, marriage, sexual orientation, adultery, promiscuity, sexual consent, sexual harassment, rape, pornography, and prostitution.

PHIL 3343 - Philosophy of Law

3 sem. hrs. lecture
An introduction to philosophical issues concerning the law, such as the nature of law, relations between law and morality, theories of legal responsibility, and the role of law in society.

PHIL 3344 - Social and Political Philosophy

3 sem. hrs. lecture
A survey of classical and contemporary material in social and political philosophy, covering topics such as individual liberty and government intervention, the role of government, and social justice.

PHIL 3345 - The Meaning of Life

3 sem. hrs.
An exploration of a variety of views concerning the meaning of life. Three kinds of responses to the question of life's meaning will be examined: theistic responses; non-theistic responses focusing on the creation of personal meaning within a natural universe; and responses that challenge the intelligibility of the question regarding the meaning of life.

PHIL 3346 - Elementary Formal Logic

3 sem. hrs.
A course on technical methods and foundational issues in Philosophy, Computer Science, and Mathematics. Topics include the Propositional Calculus, First-Order Predicate Calculus, meta-theoretic results (such as consistency, soundness, completeness, and decidability), and Zermelo-Fraenkel Set Theory.

PHIL 3347 - Philosophy and Science Fiction

3 sem. hrs.
An exploration of issues in contemporary philosophy such as the nature of life, personhood and self, knowledge and skepticism, time travel, and obligations to the non-human world. The course combines the reading of purely philosophical works with an examination of contemporary works of science fiction (including novels, short stories, and films).

PHIL 3348 - Ethics, War, and Terrorism

3 sem. hrs.

Why is it wrong to kill? Is killing an innocent person ever justified? Under what conditions can we justify war? How should we respond to terrorist threats? The course explores ethical theories in application to these and similar issues.

PHIL 4303 - Minds and Machines

3 sem. hrs.
A study of the relationship of the mental to the physical as it pertains to the foundations of psychology, artificial intelligence, and robotics.

PHIL 4304 - Metaphysics

3 sem. hrs.
An examination of issues in contemporary metaphysics, such as freedom of the will and determinism, the nature of causation, the mind-body problem, and the existence of abstract and concrete entities.

PHIL 4305 - Epistemology

3 sem. hrs. lecture
An exploration of central issues in the theory of knowledge, such as the nature and extent of knowledge, skepticism, and theories of justification.

PHIL 4321 - Ancient Philosophy

3 sem. hrs.
A survey of the ancient Western philosophical tradition, including the Presocratics, Plato, Aristotle, and the Hellenistic Philosophers.

PHIL 4322 - Modern Philosophy

3 sem. hrs.
A study of some of the major philosophical developments of the 17th-20th centuries, focusing on topics such as the relation between mind and body, religious belief and the problem of evil, rationalism and empiricism, and the limits of human knowledge.

PHIL 4323 - Contemporary Philosophy

3 sem. hrs. lecture

A course on important trends in contemporary philosophy beginning with the Fregean linguistic turn, and examining the major works of philosophers such as Frege, Russell, Wittgenstein, Quine, Davidson, Dummett, Putnam, Kripke, and Lewis.

PHIL 4330 - Philosophy and History of Science and Technology

3 sem. hrs.
An exploration of important issues concerning the natural and formal sciences from the standpoint of historical disputes and technological advances. Issues include the nature of science and of scientific progress, the justification of scientific theories, the possibility of objective knowledge of the world, the distinction between science and pseudo-science, and the relationship between faith and science.

PHIL 4331 - Issues in Philosophy of Religion

3 sem. hrs.
Standard philosophical methods will be used to explore issues such as the existence and nature of God, the problem of evil, and the relationship between morality and religion.

PHIL 4332 - Moral Issues in Contemporary Medicine

3 sem. hrs.
An examination of moral issues that arise in medicine, focusing on topics such as euthanasia, genetic interventions, medical research involving vulnerable subjects, and the distribution of medical resources.

PHIL 4333 - Environmental Ethics

3 sem. hrs.
An examination of our ethical obligations with respect to animals, plants, and environmental systems, and of the foundations of environmental law and policy.

PHIL 4335 - Moral Philosophy

3 sem. hrs. lecture
A study of moral theories, and of moral issues such as whether morality is subjective, whether there are moral facts, and the justification of practices such as capital punishment and abortion.

PHIL 4336 - Advanced Seminar in Philosophy

3 sem. hrs.

In-depth exploration of philosophical topics, designed for philosophy majors, with emphasis on student research and presentations.

PHIL 4337 - Philosophy of Language

3 sem. hrs. lecture
A philosophical investigation into the nature of language. Topics include meaning, truth, theories of mediated reference, theories of direct reference, and speech acts.

PHIL 4390 - Topics in Philosophy

3 sem. hrs.
Study of important philosophical themes and figures. May be repeated for credit when topics vary. Topics may include, for example, Minds and Machines, Eastern Philosophy, Ancient Philosophy, Environmental Ethics, American Philosophy, and Moral Issues in Contemporary Medicine.

PHIL 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application.

Physics

PHYS 1401 - General Physics I

4 sem. hrs. (3:3) TCCNS Equivalent: PHYS 1401
Introduction to Newtonian physics. Topics include Aristotelian physics and its overthrow, Newton's laws of motion and gravitation, and the motion of particles, rigid bodies and fluids. The idea of the universe as a law-governed system will be developed. Laboratory activities provide introduction to empirical methods in science. This course counts toward the natural science component of University Core Curriculum. Prerequisite: MATH 1314 or placement beyond MATH 1314. SMTE 0095 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

PHYS 1402 - General Physics II

4 sem. hrs. (3:3) TCCNS Equivalent: PHYS 1402
Introduction to oscillatory and wave phenomena, electricity and magnetism. The classical theory of fields will be used to study electric and magnetic phenomena, including light, and their role in modern technology. Laboratory activities provide introduction to empirical methods in science. This course counts toward the natural science component of University Core Curriculum. Prerequisite: MATH 1314 or placement beyond MATH 1314, and PHYS 1401 or PHYS 2425. SMTE 0095 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

PHYS 2425 - University Physics I

4 sem. hrs. (3:3) TCCNS Equivalent: PHYS 2425
A calculus based introduction to Newtonian physics. Topics include Aristotelian physics and its overthrow, Newton's laws of motion and gravitation, and the motion of particles, rigid bodies, and fluids. The idea of the universe as a law-governed system will be developed. Laboratory activities provide introduction to empirical methods in science. This course counts toward the natural science component of University Core Curriculum. Prerequisite: MATH 2413 or placement beyond MATH 2413. SMTE

0095 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

PHYS 2426 - University Physics II

4 sem. hrs. (3:3) TCCNS Equivalent: PHYS 2426
Calculus based introduction to oscillatory and wave phenomena, electricity and magnetism. The classical theory of fields will be used to study electric and magnetic phenomena, including light, and their role in modern technology. This course counts toward the natural science component of University Core Curriculum. Prerequisites: PHYS 2425 and MATH 2414 (or placement beyond MATH 2414). SMTE 0095 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

PHYS 3331 - Mechanics I

3 sem. hrs. (3:0)

Fundamentals of classical mechanics. Topics include particle dynamics in one, two and three dimensions: conservation laws; dynamics of a system of particles; motion of rigid bodies; central force problems; accelerating coordinate systems; Newton's theory of gravitation; Lagrange's and Hamilton's formulations of classical mechanics.
This course is offered through the Texas Physics Consortium (TPC). See their website (http://www.tarleton.edu/tpc/) for details.
Prerequisite: PHYS 2426. Corequisite: MATH 3315.

PHYS 3332 - Electromagnetism

3 sem. hrs. (3:0)

Electrostatics; Laplace's equation; the theory of dielectrics; magnetostatic fields; electromagentic induction; magnetic fields of currents; Maxwell's equations.
This course is offered through the Texas Physics Consortium (TPC). See their website (http://www.tarleton.edu/tpc/) for details.
Prerequisite: PHYS 2426 - University Physics II

Corequisites: MATH 3315 - Differential Equations OR MATH 3470 - Calculus III

PHYS 3333 - Thermodynamics

3 sem. hrs. (3:0)

Concept of temperature, equations of state; the first and the second law of thermodynamics; entropy; change of phase; the thermodynamics functions.

This course is offered through the Texas Physics Consortium (TPC). See their website (http://www.tarleton.edu/tpc/) for details.
Prerequisite: PHYS 2426 - University Physics II
Corequisite: MATH 3470 - Calculus III

PHYS 3334 - Modern Physics I

3 sem. hrs. (3:0)

A course in special relativity and elementary quantum mechanics. Topics include relativistic description of space-time, relativistic energy and momentum, the uncertainty principle, Schrödinger's equation, observables and operators, bound states, potential barriers, and the quantum description of the hydrogen atom.
This course is offered through the Texas Physics Consortium (TPC). See their website (http://www.tarleton.edu/tpc/) for details.
Prerequisite: PHYS 2426. Corequisite: MATH 3315.

PHYS 3490 - Selected Topics

1-4 sem. hrs.

Subject materials will be chosen from Electromagnetic Field Theory, Thermodynamics, Mathematical Methods of Physics, Waves and Optics, Advanced Modern Physics, Quantum Theory, Computational Physics, Geophysics, Environmental Physics and Medical Physics. May be repeated for credit if topics selected are different.
This course will be used for upper-level physics electives offered from other Texas Physics Consortium (TPC) schools. See their website (http://www.tarleton.edu/tpc/) for details. Prerequisites vary. Instructor's permission required.

PHYS 4161 - Physics Research Project

1 sem. hrs. (1:0)

The first half of a two semester sequence. The student will work with a faculty member to develop and conduct a senior research project including a search of the relevant literature and presentation of the proposed research idea.
This course is offered through the Texas Physics Consortium (TPC). See their website (http://www.tarleton.edu/tpc/) for details.
PHYS 3334 - Modern Physics I

PHYS 4162 - Physics Research Seminar

1 sem. hrs. (1:0)

The second half of a two semester sequence. The student will work with a faculty member to conduct a senior research project including giving an oral presentation of the final results and writing up the results in a form suitable for publication.

This course is offered through the Texas Physics Consortium (TPC). See their website (http://www.tarleton.edu/tpc/) for details.
PHYS 4161 - Physics Research Project

PHYS 4330 - Mathematical Methods for Physicists

3 sem. hrs. (3:0)

Mathematical techniques from the following areas: infinite series; integral transforming; applications of complex variables; vectors, matrices, and tensors; special functions; partial differential equations; Green's functions; perturbation theory; integral equations; calculus of variations; and groups and group representatives.
This course offered through the Texas Physics Consortium (TPC). See their website (http://www.tarleton.edu/tpc/) for details.
Corequisite: MATH 3315 - Differential Equations

PHYS 4335 - Quantum Physics

3 sem. hrs. (3:0)

The Schroedinger equation; one dimensional systems; the Heisenberg uncertainty principle; magnetic moments and angular momentum; two and three dimensional systems; approximation methods; spin.
This course is offered through the Texas Physics Consortium (TPC). See their website (http://www.tarleton.edu/tpc/) for details.
Prerequisite: PHYS 3334 - Modern Physics I Corequisite: MATH 3315 - Differential Equations OR MATH 3470 - Calculus III

PHYS 4337 - Nuclear Physics

3 sem. hrs. (3:0)

The study of nuclear phenomena and properties including mass, stability, magnetic moment, radioactive decay processes and angular momentum. The use of nuclear techniques as applied to other scientific fields including electronics and medicine.
This course is offered through the Texas Physics Consortium (TPC). See their website (http://www.tarleton.edu/tpc/) for details.
Prerequisite: PHYS 3334 - Modern Physics I Corequisite: PHYS 4335 - Quantum Physics Additional Corequisite: MATH 3315 - Differential Equations OR MATH 3470 - Calculus III

PHYS 4340 - Physics Advanced Lab

3 sem. hrs. (2:3)

A laboratory course focusing on experimental design, advanced data analysis and reduction, and experimental laboratory techniques and instrumentation. Experiments will be drawn from a variety of physics areas.

This course is offered through the Texas Physics Consortium (TPC). See their website (http://www.tarleton.edu/tpc/) for details. Corequisite: PHYS 3334 - Modern Physics I and SMTE 0095 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course.

PHYS 4496 - Directed Independent Study

1-4 sem. hrs.
Requires a formal proposal of study to be completed in advance of registration and to be approved by the supervising faculty, the Chairperson, and the Dean of the College.

Political Science

POLS 2305 - U.S. Government and Politics

3 sem. hrs. TCCNS Equivalent: GOVT 2305
A basic survey of American government, including fundamental political institutions, with special attention to the United States and Texas Constitutions. Meets the University core requirement and the Texas state statutory requirement for U.S. and Texas constitutions

POLS 2306 - State and Local Government

3 sem. hrs. TCCNS Equivalent: GOVT 2306
The politics, government, and administration of American states, counties, cities, and special districts, with special emphasis on Texas. Meets the University core requirement and the Texas state statutory requirement for U.S. and Texas constitutions

POLS 3303 - Contemporary Political Analysis

3 sem. hrs.
Analysis of current problems in national and international politics. Emphasis is on methods of analysis, particularly the use of computers. Includes a segment on career opportunities for political science majors. Satisfies university computer literacy requirement.

POLS 3311 - Women and Politics

3 sem. hrs.
The course will examine public policies affecting women, political participation, women in public office, and political attitudes of women.

POLS 3312 - Campaigns and Elections

3 sem. hrs.
A survey of the literature on campaigns and elections including theories of voter choice; effects of mass media and campaign finance regulations on the conduct and outcome of elections; effects of elections on policy; emphasis on U.S. national elections.

POLS 3313 - The Legislative Process

3 sem. hrs.
Survey and description of the legislative process in the United States Congress with relevant comparisons to practices within the several states and foreign nations. Emphasis upon the law-making process explained in terms of structure, participants, groups, associations and power relationships.

POLS 3314 - Public Opinion

3 sem. hrs.

An analysis of the kinds and distributions of opinions and attitudes in the mass public and the effects of those opinions on activities of policy makers, with special attention to problems of linking public opinion to public policy.

POLS 3315 - Political Parties

3 sem. hrs.
Organization, history, and activities of political parties and functions they serve in national, state, and local politics in the United States and elsewhere.

POLS 3316 - The American Presidency

3 sem. hrs.
A study of the federal executive branch with an emphasis upon the American Presidency with its relationships to other American political institutions and processes. Suggested background POLS 2305.

POLS 3317 - Judicial Politics

3 sem. hrs.
This course examines the political factors that influence judicial selection, decision-making and the policy-making role of courts. Furthermore, attention is directed at the impact of court decisions and the structure of the judiciary.

POLS 3318 - Interest Groups

3 sem. hrs. lecture
Role of interest groups in politics: types of groups and resources; internal dynamics; group strategies/tactics (including PACs); forms of indirect and direct lobbying; influence of groups in the political arena.

POLS 3321 - Comparative Politics

3 sem. hrs.
Concepts, theories and analytical frameworks for comparing different types of political systems around the world. Emphasis is placed on learning about different political systems and using the comparative method to evaluate and develop a richer understanding of politics, political culture, political behavior, and political institutions.

POLS 3331 - International Relations

3 sem. hrs.
Examination of the structure and function of the international system focusing on the power relationships among states, international organizations, and the critical issues animating contemporary international relations.

POLS 3341 - Introduction to Public Administration

3 sem. hrs.
Study of organization and management theories and practices of public administration affecting federal and subnational governments. Bureaucratic structures and procedures will be examined for their effects on policy, program development and evaluation.

POLS 3342 - Introduction to Public Policy

3 sem. hrs.
A survey of the policy process in the United States. The course will examine factors affecting the development, implementation and impact of public policies as well as a discussion of policy alternatives and controversies.

POLS 3343 - Bureaucracy

3 sem. hrs. lecture
Examines the concept of the political role of the bureaucracy and the impact of other government institutions on bureaucratic

structures, functions and behavior. The role of bureaucracy in public policy making and the influence of politics on implementation is analyzed.

POLS 3351 - U.S. Constitution and Federalism

3 sem. hrs.
The course will examine the development of the U.S. Constitution since 1789 through legal decisions and interpretations. The development, evolution, and interpretations of federalism are also addressed. (Note: This course will complete the Texas Teacher Certification requirement in government for those who already have three semester hours in U.S. Government and need three additional semester hours that include the government and constitution of Texas.)

POLS 3361 - Western Political Theory

3 sem. hrs.
The fundamental concepts and problems of political theory, as viewed by the major classical philosophers and contemporary theorists, including justice, power, authority, obligation, freedom, equality.

POLS 3365 - Political Theory and Ideologies

3 sem. hrs.
Major 19th and 20th-Century political theorists and ideological movements. Includes a review of capitalism, socialism, fascism, and liberalism.

POLS 4303 - Seminar in Political Science

3 sem. hrs.
Capstone course for political science majors, examines significant developments and issue in American politics as they are addressed in the professional literature of political science. Offers the opportunity of an intensive study of as selected topic. Emphasis on supervised research on selected topic. Prerequisite: POLS 3303.

POLS 4311 - Urban Politics

3 sem. hrs.
The institutions, political processes and policy issues of urban areas of the United States.

POLS 4312 - Government Budgeting and Finance

3 sem. hrs.
Study of the politics and processes of governmental budgeting at local, state, and federal levels with emphasis on the interrelatedness of governmental units through budgeting.

POLS 4314 - Media and Politics

3 sem. hrs.
Impact of mass media coverage on American political institutions, the election process, and public opinion in general and the appropriate role of media and news in a society.

POLS 4315 - Mexican American Politics

3 sem. hrs.
Analysis of Mexican Americans in the American political system. Topics of inquiry include contemporary problems, political action, political participation, social policy, and political organization. Comparisons will be made between Mexican Americans and other Latino groups.

POLS 4320 - The Politics of the European Union

3 sem. hrs.
Examination of the institutional, economic and political forces that led to the creation and development of the European Union. Emphasis on the impact the European Union has had on world affairs.

POLS 4321 - Comparative Politics of Developing Nations

3 sem. hrs. lecture
Analysis of contemporary issues within and amongst developing nations. Examines various institutions, political processes, and public policy debates in some or all of the following regions: Africa, Latin America, the Middle East, or Asia.

POLS 4322 - Transitions to Democracy

3 sem. hrs.
Analysis of transitions to democracy from authoritarian rule. Various stages of the transition process and theories of democratization are assessed. Emphasis will be placed on “third wave” transitions to democracy.

POLS 4325 - Politics in Latin America

3 sem. hrs.
Latin American governments and politics as related to such topical problems and processes as land reform and expropriation.

POLS 4327 - The Politics of War

3 sem. hrs.
This course will examine the politics of war from ancient times to the present. Included in this survey are great generals and military strategists, from Sun Tzu to Napoleon to generals of the American Civil War. Students will study concepts of international law, the law of nations, and the laws of war. The course further examines military strategy and tactics of the 20th century.

POLS 4361 - American Political Thought

3 sem. hrs.
A survey of the major developments in American political thought from the Colonial period to the present, followed by an analysis of important recent theoretical developments in American political thought.

POLS 4390 - Topics in Political Science

3 sem. hrs.
May be repeated for credit when topic varies.

POLS 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application.

Psychology

PSYC 2301 - General Psychology

3 sem. hrs. TCCNS Equivalent: PSYC 2301
An introduction to the fundamental concepts and theories in psychology. Topics include biological processes, development, learning, personality, abnormal behavior, therapy, and social interactions. This course satisfies the University core requirement in social science.

PSYC 2314 - Lifespan Developmental Psychology

3 sem. hrs. TCCNS Equivalent: PSYC 2314
The study of normal physical, cognitive, social, and emotional development from infancy to late adulthood.

PSYC 2326 - Social Psychology

3 sem. hrs. TCCNS Equivalent: PSYC 2319/SOCI 2326
The scientific study of how a person's thoughts and behavior are influenced by others. Topics will include social cognition, attitudes, persuasion, interpersonal relationships, and group behavior. (Credit may not be given for both this course and SOCI 2326.)

PSYC 3325 - Close Relationships

3 sem. hrs.
This course is designed as an overview to the field of close relationships. The major theories of close relationships will be emphasized, including examinations of evolutionary, attachment, interdependence, and cognitive approaches. Additional topics include attraction, relationship development and maintenance, infidelity, and relationship violence.

PSYC 3335 - Forensic Psychology

3 sem. hrs.
This course examines the relationship between the practice of psychology and the functioning of the legal system. The course surveys many aspects of clinical forensic psychology, including assessment, treatment, and consultation services.

PSYC 3342 - Cognitive Psychology

3 sem. hrs.
A survey of current research and theory in the field of human cognition, emphasizing the information processing model. Topics include attention, memory, language, and problem solving. Prerequisite: PSYC 3411.

PSYC 3343 - Learning and Behavior

3 sem. hrs.
The study of the fundamental principles of learning through a consideration of theories and constructs, such as associations, reinforcement, punishment, generalization, discrimination, and modeling. Prerequisite: PSYC 3411.

PSYC 3346 - Psychology of Language

3 sem. hrs.
The purpose of the course is to introduce students to the scientific study of language phenomena. This course will provide an introduction to issues in language use, knowledge, acquisition, perception, disorders, and processes.

PSYC 3360 - Health Psychology

3 sem. hrs.
This course will provide an overview of the field of health psychology, examining how psychological theories and research are applied to enhance health and well-being and to prevent and treat illness.

PSYC 3361 - Psychology of Personality

3 sem. hrs.
An introduction to major theories of personality. Personality processes and development are discussed from psychoanalytic, behavioral, humanistic, and other perspectives.

PSYC 3363 - Abnormal Psychology

3 sem. hrs.
An introduction to the study of abnormal behavior. Studies the etiology and characteristics of the major behavioral disorders, including current research findings and treatment practices. Competency in personality psychology, such as that obtained by completing PSYC 3361, is assumed for this course.

PSYC 3370 - Psychology of Religion

3 sem. hrs.
This course examines religious experience and behavior from a psychological perspective. Topics include historical and theoretical perspectives, development of religious beliefs across the lifespan, religious conversion, social and group experiences, and the varieties of religious belief.

PSYC 3374 - Human Sexuality

3 sem. hrs.
The study of human sexual behavior from a biological and psychosocial perspective. Emphasizes current research methods and findings.

PSYC 3375 - Introduction to Clinical Psychology

3 sem. hrs.
A survey of diagnostic and therapeutic strategies employed by clinical psychologists. The scientist-practitioner model is emphasized through the critical analysis of theories and empirical research that provide the foundation for determining effective treatments of mental disorders.

PSYC 3411 - Experimental Psychology

4 sem. hrs.
An introduction to the methods of scientific experimentation in psychology. Skills to critically analyze journal articles, design experiments, collect and analyze data, and write reports in APA style will be developed. Satisfies university computer literacy requirement. Students are required to enroll in a laboratory section of this course. The laboratory component of this course offers applications of the principles discussed in the large lecture. Prerequisite: MATH 1442 or its equivalent.

PSYC 4309 - History and Systems of Psychology

3 sem. hrs.
An in-depth study of the development of modern psychology through an examination of major philosophic, scientific, and social-political antecedents. Contemporary positions are discussed within the context of broader theoretical frameworks. Prerequisite: Senior standing or permission of the instructor. Must have completed 24 hours in PSYC.

PSYC 4332 - Cross-cultural Psychology

3 sem. hrs.
This course is designed to provide students with both a theoretical and a practical understanding of the effects of culture on human thinking, values, and behavior. As such, it is focused on the effects of culture on the nature and behavior of individuals, their adaptations to institutions and environments, and their relations with others within and outside their culture. Knowledge presented in the class is drawn from both qualitative and quantitative research.

PSYC 4344 - Drug Use and Abuse

3 sem. hrs.
Study of the physiological, psychological, and social effects of drug use and abuse. Following a review of basic neuroanatomy and pharmacology, the actions and known effects of specific drugs of use and abuse will be examined. Treatments and prevention issues related to substance abuse will also be discussed.

PSYC 4346 - Debates in Language Development

3 sem. hrs.
This course will introduce students to major theories and topics in the field of language development with a focus on language as a social and cultural phenomenon. The course will explore the relationship between language and social cognition, consider evolutionary and comparative work in the field, as well as interdisciplinary work on language as a social and cultural phenomenon.

PSYC 4352 - Physiological Psychology

3 sem. hrs.
An introduction to the physiological mechanisms that underlie behavior with emphasis on the nervous, the endocrine and sensory systems. Prerequisite: PSYC 3411.

PSYC 4354 - Sensation and Perception

3 sem. hrs.
Basic sensory processes as they relate to the sensory experience and to the construction of our conception of physical reality. Prerequisite: PSYC 3411.

PSYC 4367 - Gender Issues in Psychology

3 sem. hrs.
This course is designed to introduce the undergraduate student to the theoretical and empirical issues related to the psychology of gender. Both traditional and contemporary theories that focus on the unique aspects in the psychological development of women as well as men will be examined. Prerequisite: 12 credits or previous psychology course work or the permission of the instructor are required for entrance into this course.

PSYC 4372 - Psychological Testing

3 sem. hrs.
Statistical and research basis for test construction. Instruction in use of group and individual tests in intelligence, achievement, interest and personality. Understanding of individual measures in these areas. Satisfies university computer literacy requirement. Prerequisite: MATH 1442 or its equivalent.

PSYC 4377 - Business and Industrial Psychology

3 sem. hrs.
Psychological principles applied to the understanding of problems in business and industry. Topics include personnel psychology, organizational psychology, and effects of the work environment.

PSYC 4390 - Topics in Psychology

3 sem. hrs.
May be repeated for credit when topics vary.

PSYC 4395 - Undergraduate Research

3 sem. hrs.
A research project in psychology designed in consultation with a faculty director. The study is to be conducted by the student under the supervision and direction of the faculty member and may culminate in a formal report written in APA journal style. Offered by application.

PSYC 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered by application.

PSYC 4398 - Applied Experience

3 sem. hrs.
See College description. Offered by application.

Reading Education

READ 0399 - Basic Reading and Comprehension

3 sem. hrs.
This is a reading course for students who need assistance in developing college level reading skills. Emphasis will be on improving reading comprehension, critical reasoning skills, recognition of the organization of ideas in written material, study skills and vocabulary development. The Higher Education Assessment (THEA) reading skills will be covered. Required for THEA liable undergraduate students. (Not counted toward graduation.) Course fee required.

READ 3310 - Principles and Practices of Early Reading Instruction

3 sem. hrs.
This course explores theories of early language and literacy development of children. Course content addresses language development and literacy concepts essential for pre-reading areas, such as phonemic awareness, oral language development, listening comprehension development, and alphabetic knowledge. The course explores ways educators can enhance language and literacy concepts utilizing art, music, and drama. READ 3310 emphasizes development of emergent literacy skills that lead to higher literacy skills taught in READ 3320.

READ 3320 - Principles and Practices of Reading Instruction

3 sem. hrs.
This course will emphasize materials, methods, and beliefs for teaching reading in the early childhood through grade 6 setting. Components of the course will include but not be limited to the five pillars of reading instruction identified by the National Reading Panel (2000): phonemic awareness, phonics, fluency, vocabulary, and comprehension.

READ 3321 - Principles and Practices of Reading Instruction, Grades 4 – 8

3 sem. hrs.
This course will emphasize materials, methods, and beliefs for teaching reading in grades 4-8. Components of the course will include but not be limited to the five pillars of reading instruction identified by the National Reading Panel (2000): phonemic awareness, phonics, fluency, vocabulary, and comprehension.

READ 3351 - Diagnosis and Correction of Reading Problems

3 sem. hrs.
Diagnosis and correction of reading problems are examined in detail. Emphasis is upon the precise administration, scoring, and interpretation of various diagnostic instruments used to detect reading problems. The correction processes for identified problems are also examined. Components of the course will include but not be limited to the five pillars of reading instruction identified by the National Reading Panel (2000): phonemic awareness, phonics, fluency, vocabulary, and comprehension. Prerequisite: READ 3320, READ 3321, or READ 3353.

READ 3352 - Content Area Reading for Elementary Students

3 sem. hrs.
Readings required of elementary pupils in the content areas are introduced. In addition, an overview of the reading processes, library skills and high interest, low vocabulary reading materials is presented. Components of the course will include but not be limited to the five pillars of reading instruction identified by the National Reading Panel (2000): phonemic awareness, phonics, fluency, vocabulary, and comprehension. Prerequisite: READ 3320 or READ 3321.

READ 3353 - Content Area Reading for Secondary Students

3 sem. hrs.
The skills required of secondary students to deal with subject matter in the various content areas are presented. In addition, developmental and corrective processes that incorporate the identification and remediation of dyslexia and other reading disorders are presented.

READ 3355 - Teaching Reading in the Secondary School

3 sem. hrs.
This course focuses on planning, developing, selecting, and organizing reading materials for secondary reading instruction. Prerequisite: READ 3353.

READ 3356 - Technology and Literacy

3 sem. hrs.
Various software packages that have been developed for providing initial and tutorial instruction in the language arts are presented. In addition, instructional techniques for using these packages are covered. Prerequisites: READ 3320 and READ 3321.

READ 4352 - Advanced Practices in Reading/ Language Arts

3 sem. hrs.
The emphasis is on instructional approaches supported by current theory and research and supervised implementation in a school setting. Attention is given to word study, comprehension, critical reading and reasoning, and reading-writing connections. Components of the course will include but not be limited to the five pillars of reading instruction identified by the National Reading Panel (2000): phonemic awareness, phonics, fluency, vocabulary, and comprehension. Prerequisites: READ 3320, READ 3351, and READ 4380. This course must be taken concurrently with READ 4394.

READ 4380 - Children's and Adolescents' Literature

3 sem. hrs.
Provides students with an understanding of children's and adolescent literature. Included in the class is the reading and study of literature and how to promote reading of literature in the schools. Extensive reading is required.

READ 4394 - Field Experiences in Reading

3 sem. hrs.
The culminating experience for those students working toward a specialization in reading. Students are provided supervised experience in field-based activities, in addition to on-campus activities. Prerequisites: READ 3320, READ 3351, and READ 4380. This course must be taken concurrently with READ 4352..

READ 4696 - Directed Individual Study

1-6 sem. hrs.
Programs will be designed for individual cases through special permission of the Department Chair and Dean. May be repeated for credit when the topic varies.

Science, Mathematics and Technology Education

SMTE 0091 - Biological Laboratory Safety Seminar

0 sem. hrs.
This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

SMTE 0092 - Biomedical Laboratory Safety Seminar

0 sem. hrs.
This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

SMTE 0093 - Chemistry Laboratory Safety Seminar

0 sem. hrs.
This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

SMTE 0094 - Geology Laboratory Safety Seminar

0 sem. hrs.
This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

SMTE 0095 - Physics Laboratory Safety Seminar

0 sem. hrs.
This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

SMTE 0096 - Environmental Science Laboratory Safety Seminar

0 sem. hrs.
This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

SMTE 1350 - Fundamentals of Mathematics I

3 sem. hrs. (3:0) TCCNS Equivalent: MATH 1350
The conceptual framework for understanding and applying properties, models, and operations related to various number systems in problem solving settings. Prerequisite: MATH 1314. Fall, Spring, Summer.

SMTE 1351 - Fundamentals of Mathematics II

3 sem. hrs. (3:0) TCCNS Equivalent: MATH 1351
The conceptual framework for understanding and applying properties, models, and operations related to various data systems in problem solving settings. Prerequisite: SMTE 1350. Fall, Spring, Summer.

SMTE 3315 - Foundational Approaches to the Physical Sciences

3 sem. hrs. (2:2)
Physical science topics such as simple machines, atoms, molecules, electricity and magnetism, sound, and light. Laboratory involvement will emphasize techniques of problem solving, data gathering, and data application. The course is taught following an inquiry based format and is recommended for future K-8 level science educators. SMTE 0096 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

SMTE 3316 - Foundational Approaches to the Life Sciences

3 sem. hrs. (2:2)
Emphasis on biological concepts including cells, plants, invertebrate and vertebrate structural systems. Laboratory investigations focus on techniques of problem solving, data gathering, and data applications. The course is taught following an inquiry based format and is recommended for future K-8 level science educators. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

SMTE 3352 - Fundamentals of Mathematics III

3 sem. hrs. (3:0)
The conceptual framework for understanding and applying properties, models, and operations related to various geometric systems in problem solving settings. Prerequisite: SMTE 1351. Fall, Spring, Summer.

SMTE 4217 - Secondary Approaches to the Life Sciences

2 sem. hrs. (2:0)
Study of secondary science teaching and learning from the standpoints of theory and practice, curriculum objectives, materials and evaluation. The course will emphasize contemporary issues by focusing on biological content ranging across the sub-disciplines of molecular biology, physiology, evolution and environmental science while teaching in a relevant and engaging context that includes web searches, laboratory activities, and student-centered inquiry activities

SMTE 4270 - Science Education Topics I

2 sem. hrs. (2:0)
Presentation of the conceptual framework for understanding and applying science content in life sciences including biology, ecology and evolution using the national standards for science education and Texas Essential Knowledge and Skills (TEKS). The course is taught using scientifically researched literature and content knowledge in an inquiry based format and is recommended for future 4-8 and 7-12 level science educators.

SMTE 4271 - Science Education Topics II

2 sem. hrs. (2:0)
Presentations of contemporary issues in science education. Topics include the science teacher as a community resource, linking classroom instruction with community resources, outdoor and environmental education programs, securing funding for K-12 science education.

SMTE 4273 - Historical Development of the Sciences

2 sem. hrs. (2:0)
Study of human endeavors leading to the present body of scientific knowledge placed in a historical and philosophical context. Portions of the materials will be presented in a format conducive to adaptation for middle school and high school. Prerequisites: BIOL 1407, CHEM 1312, EDCI 3311 or approval of instructor.

SMTE 4320 - Secondary Science Laboratory Techniques

3 sem. hrs. (2:3)
This course is designed to assist the 4-8 and 7-12 future science teacher in developing content knowledge, skills and mastery of designated laboratory and research techniques through scientific experimentation in areas such as chemistry, biology and physics. State and national laboratory safety mandates will also be addressed. Prerequisites: BIOL 1407, CHEM 1312, EDCI 3311 or approval of instructor. Safety training given during a laboratory meeting early in the semester is required for continued participation in this course.

SMTE 4370 - Mathematics Education Topics I

3 sem. hrs. (3:0)
Presentations of contemporary issues in mathematics education. Topics include history of mathematics education, state and national standards for mathematics education, cognitive development, the importance of culture, language and gender in learning mathematics, authentic assessment, and interdisciplinary curriculum.

SMTE 4382 - Basic Mathematics From An Advanced Viewpoint

3 sem. hrs. (3:0)
Capstone course for students pursuing grades 4-8 certification in mathematics. Presents basic mathematical concepts in the context of advanced mathematics courses. The course includes historical development of significant ideas in mathematics and science, interpretations of mathematical topics at multiple levels, and the use of technology to generate and convey understanding of mathematical ideas. Prerequisites: MATH 2305, MATH 3312, and completion of at least 90 hours.

SMTE 4490 - Selected Topics

1-4 sem. hrs.
Subject materials variable. May be repeated for credit when topics are significantly different. Faculty approval required.

SMTE 4496 - Directed Independent Study

1-4 sem. hrs.
Requires a formal proposal of study to be completed in advance of registration and to be approved by the supervising faculty, the Chairperson, and the Dean of the College.

Sociology

SOCI 1301 - Human Societies

3 sem. hrs.
An introduction to the basic concepts, methods, and theories used in Sociology. Topics illuminate the relationship between technology and social change. Reciprocal relationships between individuals and society are examined. Topics may include – but are not limited to – culture, deviance, globalization, social stratification, race and ethnicity, gender. This course satisfies the University core requirement in social science.

SOCI 2326 - Social Psychology

3 sem. hrs. TCCNS Equivalent: SOCI 2326/PSYC 2319
The scientific study of how a person's thoughts and behavior are influenced by others. Topics will include social cognition, attitudes, persuasion, interpersonal relationships, and group behavior. (Credit may not be given for both this course and PSYC 2326.)

SOCI 3301 - Cultural Anthropology

3 sem. hrs.
Study of the social life of human groups from their earliest appearance to the present. Analyses of cultures include language,

kinship, art, religion, economics, and political behavior. Cross-cultural comparisons allow development of generalizations about social patterns, social structure, and cultural practices found in human societies. (Credit may not be given for both this course and ANTH 3301.)

SOCI 3310 - Sociology through Film

3 sem. hrs. lecture
The examination of film as a culture artifact to illustrate sociological concepts, theories, and perspectives. Specific attention will be given to narratives of film as they illustrate culture, aging, social class, gender, race/ethnicity, identity, and other sociological concepts.

SOCI 3312 - Racial and Ethnic Relations

3 sem. hrs.
The study of cultural, religious, ethnic and racial groups, and the treatment accorded them in society. Prejudice, discrimination and the outcomes of discrimination in relation to both dominant and subordinate groups are considered.

SOCI 3315 - Population

3 sem. hrs.
A study of population growth, distribution and change, and the reasons for these patterns. Also an examination of population-related problems and policies. (Offered Spring only.)

SOCI 3320 - Sociology of Gender

3 sem. hrs.
An examination of the roots, nature and social construction of gender roles including socialization of men and women, gender role relationships from the perspectives of sociology. Issues of family, education, work and the economy, religion, politics and law, feminist organizations, feminist theory, and men’s and women’s movements will be considered.

SOCI 3321 - Mexican American Women

3 sem. hrs.
A study of the Chicanas and the trends in society and Mexican-American culture affecting their lives and behaviors.

SOCI 3340 - Sociology of the Family

3 sem. hrs.
The study of the family, relationships among its members, and the relationship of family to other social institutions.

SOCI 3349 - Sociology of Deviant Behavior

3 sem. hrs.
A systematic and critical study of the nature, patterns, and processes of violations of significant social norms by members of society. Specific attention is given to violations such as drug abuse, violence in and outside the family, and white-collar offenses.

SOCI 3350 - Sociology of Education

3 sem. hrs.
Employing a sociological lens to examine formal education in the United States and other countries, students will explore various schools of thought and controversies surrounding education in modern societies. They will examine important issues related to formal education, such as the expansion of schooling, equality of educational opportunity, unequal achievement of groups of students, the reproduction of inequality in education, schools' roles in the transmission of culture, and the social organization of schools.

SOCI 3370 - Native Americans in North America

3 sem. hrs.
An ethnographic and historical analysis of Native American cultures in what is now called North America from prehistoric times to the present. (Credit may not be given for both this course and ANTH 3370.)

SOCI 4301 - Social theory

3 sem. hrs.
Combines an analysis of the major ideas and theories in sociology and their relationship to social research with an understanding of social processes and structures. Prerequisite: SOCI 1301 or permission of instructor. (Required for Majors.) Offered Fall semesters only.

SOCI 4310 - Sociology of Work and Occupations

3 sem. hrs.
The study of work as a social phenomenon, including the social organization of work, occupations, and professions in society. The labor force, work culture, workers mobility, career lines, and leisure in contrast to work are considered.

SOCI 4312 - Social Class and Inequality

3 sem. hrs.
The study of social inequality in society, with emphasis on the social class structure of the United States, its origins,

development, and consequences for individuals, groups, and society. Prerequisite: SOCI 1301 and SOCI 3312 or permission of instructor.

SOCI 4315 - Complex Organizations

3 sem. hrs.
The development of a theoretical and applied understanding of those social institutions where most of us will be employed. Topics include organizational effectiveness, decision making, designs, politics, cultures, as well as gender and racial inequality.

SOCI 4318 - Social Change and Modernization

3 sem. hrs.
A study of how technology, culture, social movements, etc. affect large-scale change in societies.

SOCI 4320 - Sociology of Sports

3 sem. hrs.
This course critically examines the relationships between organized sports and the rest of society. It will undertake a sociological analysis of how organized sports affect, and are affected by, major social institutions such as the economy, racial and gender relations, mass media, and religion, to mention but a few.

SOCI 4325 - Medical Sociology

3 sem. hrs.
Examination of the social contexts of physical and mental health, illness and medical care. Topics include the social, environmental, and occupational factors in health and disease; socialization of health care providers; doctor-patient relationships; the structure and processes of health care organizations; and health care and social change.

SOCI 4326 - Food and Society

3 sem. hrs. lecture
The study of the social and cultural dimensions of the human food system, from production to consumption. The course proposes that food systems and food consumption patterns are products of the interplay of social forces of innovation and change with counter forces of continuity and stability. The main areas covered include the origins of human subsistence, the development of the modern food system, food and the family, eating out, diet and health, diet and body image, food risks, the meanings of meat, and vegetarianism.

SOCI 4331 - Juvenile Delinquency

3 sem. hrs.
Examination of the extent and pattern of juvenile crime today. History and theory of delinquency and society's response to it. (Credit may not be given for both this course and CRIJ 4331.)

SOCI 4335 - Criminology

3 sem. hrs.
An examination of the major sociological explanations for crime, criminal behavior, and the social responses to crime. (Credit may not be given for both this course and CRIJ 4335.)

SOCI 4365 - Coming of Age: Sociology of Youth through Early Adulthood

3 sem. hrs. lecture
The study of aging and the life course from childhood through early adulthood. Focus is on the major theories of aging over the life course. Specific attention is given to the social construction of age and aging, socialization over the life course, and the extent to which the life course is influenced by race, class, and gender. Also considered are life course perspectives of family, education, work, leisure, health, and/or deviance.

SOCI 4375 - Graying in America: Sociology of Retirement

3 sem. hrs.
This course critically examines the social context within which retirement behavior occurs in the United States. Topics will include sociological theories related to aging, factors influencing retirement, including race, class, and gender, as well as debates surrounding Social Security policy.

SOCI 4385 - Senior Seminar in Sociology

3 sem. hrs.
This is a capstone course required of all students graduating with a major in sociology. The course is designed to enable faculty to assess each student’s expertise in applying sociological concepts and practices. Students demonstrate this expertise through the completion of a final project that combines a minimum of classroom hours with substantial research activity. The course is team taught by the entire sociology faculty. Students are allowed considerable flexibility in selecting either survey research or evaluation research for their project.(Offered Spring Only.)

SOCI 4390 - Topics in Sociology

3 sem. hrs.
A consideration of various topics on social behavior and social structure. May be repeated when topics vary.

SOCI 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application.

SOCI 4398 - Applied Experience

3 sem. hrs.
See College description. Offered on application.

SOCI 4445 - Social Research Methods

4 sem. hrs.
A survey of the basic research techniques and methods used in sociology including content analysis, field research, sampling, surveys, polls, and computerized data analysis. Satisfies university computer literacy requirement. Prerequisite: SOCI 1301 or permission of instructor. (Offered Fall Only.)

Social Work

SOCW 3301 - Introduction to Social Work

3 sem. hrs.
An introductory survey of the field of social work including the nature, function, and types of social work practice. This course is designed to acquaint the student with the history, terminology, scope, and values of the profession of social work. Prerequisite: PSYC 2301 or SOCI 1301 or permission of instructor.

SOCW 3310 - Approaches to Social Welfare

3 sem. hrs.
Origin, development, and present status of social service programs with particular emphasis on the relationship of program resources, human needs, and the methods through which services are provided.

SOCW 3320 - Social Services in the Community

3 sem. hrs.
An introduction to the organizations and agencies involved in social service delivery. Exploration of the range and characteristics of the human service delivery system with particular emphasis on the social work profession. Prerequisite: SOCW 3310 or permission of instructor.

SOCW 3350 - Social Work Practice

3 sem. hrs.
Social Work practice from a generalist perspective of social work intervention. Data collection, assessment, intervention, planning/implementation, and evaluation are covered. Prerequisite: SOCW 3301 or permission of instructor.

SOCW 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application. Prerequisite: consent of instructor.

SOCW 4398 - Applied Experience

3 sem. hrs.
One semester course of field work in a selected agency. (See college description. Offered on application.) Prerequisite: consent of instructor.

Spanish

SPAN 1311 - Spanish I

3 sem. hrs. TCCNS Equivalent: SPAN 1311
Introduction to listening, speaking, reading and writing skills within a Spanish cultural framework. For students without previous knowledge of the language. (Language laboratory required. One hour per week.) *A lab fee is required for these courses.

SPAN 1312 - Spanish II

3 sem. hrs. TCCNS Equivalent: SPAN 1312
Continued practice in listening, speaking, reading and writing skills within a Spanish cultural framework. (Language laboratory required. One hour per week.) A lab fee is required for these courses. Spanish 1311 or equivalent required.

SPAN 2311 - Spanish III

3 sem. hrs. TCCNS Equivalent: SPAN 2311
Reviews Spanish grammar through oral and written practice with emphasis on language proficiency. Utilizes cultural readings in Spanish to expand vocabulary and knowledge of the Hispanic cultures. Prerequisite: SPAN 1312 or three years of high school Spanish.

SPAN 2312 - Spanish IV

3 sem. hrs. TCCNS Equivalent: SPAN 2312
Continued advanced development and review of all language skills within a Spanish framework with an emphasis in the linguistic and cultural perspective. Prerequisite: SPAN 2311 or three years of high school Spanish.

SPAN 2313 - Spanish for Native Speakers

3 sem. hrs. TCCNS Equivalent: SPAN 2313
An introductory course designed for bilingual students who wish to enhance their linguistic skills (speaking, listening, reading and writing). This course will focus on the cultural and historical aspects related to the native Spanish speaker.

SPAN 3302 - Spanish Composition

3 sem. hrs.
A course designed to develop analytical perspectives in literary criticism and to strengthen reading and writing skills in Spanish through intensive reading of Spanish, Spanish American, and Chicano fiction. Prerequisite: SPAN 2312 or equivalent.

SPAN 3303 - Spanish Conversation

3 sem. hrs.
A course designed to strengthen the student's oral proficiency in the language through selected readings, videos and oral presentations. Prerequisite: 2312 or equivalent.

SPAN 3304 - Spanish Civilization

3 sem. hrs.
This course has been designed to provide a general overview of the historical, sociocultural and political experience of the Spanish people. Conducted in Spanish.

SPAN 3305 - Spanish American Civilization

3 sem. hrs.
This course has been designed to provide a general overview of the historical, sociocultural and political experience of the American people before and after Columbus. Conducted in Spanish.

SPAN 3307 - Spanish Literature I

3 sem. hrs.
A critical approach to the study of early Spanish literature from the Middle Ages through the Eighteenth Century. Literary selections include masterpieces that establish and reflect Spain's literary tradition within its larger European context. This course may be used to satisfy the university core curriculum requirement in literature. Conducted in Spanish.

SPAN 3308 - Spanish Literature II

3 sem. hrs.
A continuation of a critical approach to the study of Spanish literature from the Nineteenth Century through the present. Representative works of Spanish Romanticism, Realism, Naturalism, and contemporary literature are studied within their larger European context. This course may be used to satisfy the university core curriculum requirement in literature. Conducted in Spanish.

SPAN 3309 - Spanish American Literature I

3 sem. hrs.
A critical approach to the study of early Spanish American literature from the Pre-Columbian Period through the Nineteenth Century. Selected readings in all literary genres, major themes, writers, and early literary movements will be studied within their larger Latin American context. This course may be used to satisfy the university core curriculum requirement in literature. Conducted in Spanish.

SPAN 3310 - Spanish American Literature II

3 sem. hrs.
A continuation of a critical approach to the study of Spanish American literature from the Twentieth Century through the present. Representative works of Latin American writers and literary movements: Modernism, Realism, Avant-Garde, Regionalism, Magic-Realism are studied within their larger Latin American context. This course may be used to satisfy the university core curriculum requirement in literature. Conducted in Spanish.

SPAN 3311 - Spanish Phonetics

3 sem. hrs.
A course designed to study the production and discrimination of the Spanish sound system with a general overview of the geographical and social distribution of phonemic and allophonic variants.

SPAN 3312 - Spanish Grammar

3 sem. hrs.
A course designed for Spanish majors to study language structures. Major emphasis will be given to Morphology and Syntax and their role in both oral and written expressions.

SPAN 3315 - Civilizations of the Spanish-speaking World

3 sem. hrs.
This course has been designed to provide a general overview of the historical, sociocultural and political experience of peoples from the Spanish-Speaking world, both from Spain and Spanish America. Conducted in Spanish.

SPAN 4301 - Spanish Civil War and Literature

3 sem. hrs.
Significance of the Civil War for Spanish, European, and world history. Effect of war on literary and cultural life of the country and the response of writers from Spain and Latin America. Conducted in Spanish. Conducted in Spanish.

SPAN 4302 - Mexican Narrative

3 sem. hrs.
Examination of representative novels and short stories reflecting the emergence of a post-revolutionary society in Mexico. Conducted in Spanish.

SPAN 4303 - Spanish in the Southwest

3 sem. hrs.
Cultural and linguistic dimensions of Spanish dialects of the Southwestern United States, with special attention to Texas Spanish and its sociolinguistic perspectives in the bilingual community at large. Prerequisites: SPAN 2312 or equivalent.

SPAN 4320 - Spanish in the Americas

3 sem. hrs.
A study of the Spanish that was brought to the Americas, its development, propagation and contact with native-American languages, including the sociocultural factors that have contributed to the linguistic variation in contemporary Spanish-speaking societies.

SPAN 4327 - Methods in Foreign Language Instruction

3 sem. hrs.
This course is designed to study the current methods in foreign languages, their application in maximizing language proficiency, and the role of the students' culture and language during the learning process.

SPAN 4390 - Topics in Spanish

3 sem. hrs.
Study of specialized topics in language or literature. These courses may also be designed to develop terminology and overall Spanish proficiency regarding specific professions: Business, Medical, Criminal Justice, Sociology, etc. May be repeated when topics vary.

SPAN 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application.

Special Education

SPED 4310 - Students with Exceptionalities

3 sem. hrs.
Familiarizes the student with the various conditions of individuals with disabilities.

SPED 4315 - Motor Development for Students with Exceptional Needs

3 sem. hrs.
A comparative overview of the physical development and motor-activity needs of students with disabilities.

SPED 4320 - Community-based Instruction for the Students with Exceptionalities

3 sem. hrs.
Strategies and procedures for teaching community-based instruction to individuals with disabilities, including independent living and socialization skills, are discussed.

SPED 4325 - Teaching Strategies for Students with Exceptionalities

3 sem. hrs.
Introduction and demonstration of specific skills necessary for teaching students with disabilities

SPED 4330 - Individualized Education Programs for Students with Exceptionalities

3 sem. hrs.
Emphasis is given to the design and implementation of individualized educational programs (IEP) for students with disabilities.

SPED 4335 - Applied Learning theory

3 sem. hrs.
Designed to develop and extend the student's knowledge of the principles of applied learning theory as it relates to students with disabilities.

SPED 4340 - Individuals with Severe Disabilities

3 sem. hrs.
Introductory study of the adaptations, approaches, and supports necessary to meet the educational needs of students who have communication, intellectual, motor, sensory, and/or medical impairments.

SPED 4345 - Introduction to Students with Emotional and Behavior Disorders

3 sem. hrs.
This introductory course will provide comprehensive information on Emotional and Behavioral disorders. Course content includes information on: definitions, characteristics, prevalence, causes, assessment, education service placements, functional behavior assessment, ABA and Positive Behavior Supports, advocacy, and current issues in the field.

SPED 4345 - Introduction to Students with Emotional and Behavior Disorders

3 sem. hrs. lecture
This introductory course will provide comprehensive information on Emotional and Behavioral disorders. Course content includes information on: definitions, characteristics, prevalence, causes, assessment, education service placements, functional behavior assessment, ABA and Posititve Behavior Supports, advocacy, and current issues in the field.

SPED 4397 - Special Education Field Experience

3 sem. hrs.
Provides the student with the opportunity to interact with students with disabilities in a variety of settings ranging from non-involved observer to active participant. Grade assigned will be "credit" (CR) or "no credit" (NC).

SPED 4696 - Directed Individual Study

1-6 sem. hrs.
Programs will be designed for individual cases through special permission of the Department Chair and Dean. May be repeated for credit when the topic varies.

Theatre

THEA 1100 - Theatre Production Lab I

1 sem. hrs. TCCNS Equivalent: DRAM 1120
Opportunity to participate in theatre productions in the areas of costume construction and stage makeup. Students are required to work on crews for the University Theatre productions. The course may be repeated for credit. Co-requisite THEA 1371.

THEA 1101 - Theatre Production Lab II

1 sem. hrs. TCCNS Equivalent: DRAM 1121
Opportunity to participate in theatre productions in the areas of set construction, lighting, sound, and stagecraft. Students are required to work on crews for the University Theatre productions. The course may be repeated for credit. Co-requisite THEA 2370.

THEA 1310 - The Art of the Theatre

3 sem. hrs. TCCNS Equivalent: DRAM 1310
Introduction to the theatre as an art form. Includes exploration of the creative process from the perspective of the playwright, director, actor, and designer. Meets Fine Arts requirements for the University Core Curriculum Program.

THEA 1341 - Stage Makeup

3 sem. hrs. TCCNS Equivalent: DRAM 1341
A practical exploration of basic stage makeup techniques. The student will also investigate the relationships of character to makeup and begin to understand the work needed to design makeup for a production.

THEA 1342 - Voice and Diction

3 sem. hrs. TCCNS Equivalent: SPCH 1342
Basic voice training, including techniques for vocal production, manipulation, and control. Practical application of the vocal apparatus will be emphasized, including techniques of enunciation, projection, articulation, and the use of the International Phonetic Alphabet. (Credit may not be given for both this course and COMM 1342.)

THEA 1351 - Acting I

3 sem. hrs. TCCNS Equivalent: DRAM 1351
The development of basic skills and techniques of acting, including sensory awareness, ensemble performing, character analysis, and script analysis. Emphasis on the mechanics of voice, body, emotion, and analysis as tools for the actor.

THEA 1352 - Acting II

3 sem. hrs. TCCNS Equivalent: DRAM 1352
A continuation of Acting I with emphasis on characterization and working with extended realism. The student will study the theories of Constantin Stanislavski. Prerequisite: THEA 1351.

THEA 1371 - Costume Construction

3 sem. hrs. TCCNS Equivalent: DRAM 1342
A beginning overview of the vocabulary and basic sewing methods of theatrical costuming. Co-requisite THEA 1100.

THEA 2100 - Theatre Production Lab III

1 sem. hrs. TCCNS Equivalent: DRAM 2120
One semester hour of credit may be received per semester for work done in the practical lab consisting of actual work on productions. One hour a week for one semester and additional laboratory hours as required.

THEA 2101 - Theatre Production Lab IV

1 sem. hrs. TCCNS Equivalent: DRAM 2121
One semester hour of credit may be received per semester for work done in the practical lab consisting of actual work on productions. One hour a week for one semester and additional laboratory hours as required.

THEA 2370 - Theatre Stagecraft

3 sem. hrs.
Students will study the principles of stagecraft, and be provided hands on experiences in set construction, painting, lighting, sound and other techniques. Students will also utilize the computer to facilitate designs and projects for this course. Co-requisite THEA 1101.

THEA 3100 - Theatre Production Lab V

1 sem. hrs.
One semester hour of credit may be received per semester for work done in the practical lab consisting of actual work on productions. One hour a week for one semester and additional laboratory hours as required.

THEA 3101 - Theatre Production Lab VI

1 sem. hrs.
One semester hour of credit may be received per semester for work done in the practical lab consisting of actual work on productions. One hour a week for one semester and additional laboratory hours as required.

THEA 3165 - The Design and Technical Portfolio.

1 sem. hrs.
A basic course in the development of the student portfolio for the areas of design and technology with emphasis in the theatrical job market or graduate school.

THEA 3300 - Movement for Actors

3 sem. hrs.
Explores the movement skills necessary for the actor with emphasis on individual physical training and improvisation. Prerequisites: THEA 1351, THEA 1352.

THEA 3302 - Creative Dramatics

3 sem. hrs.
Theories and practices incorporating the techniques of creative drama in the elementary, middle, and high school classroom. Especially recommended for elementary education, recreation, and the social sciences.

THEA 3303 - Theatre in the Public Schools

3 sem. hrs.
Theories and practices of incorporating theatre activities in the public schools. Especially recommended to students of elementary and secondary education, recreation and the social sciences.

THEA 3310 - Contemporary Theatre

3 sem. hrs.
An overview of the nature and function of theatre in our contemporary society with discussion of representative plays and playwrights, theatrical styles, and avant-garde theatre. Students will explore multicultural, political, and experimental themes, attend theatrical productions, and meet with actors, designers, and directors to discuss contemporary practices.

THEA 3311 - Script Analysis

3 sem. hrs.
Students will learn the principles, techniques, and processes of dramatic structure found in written scripts as seen through the perception of the stage director, actor, and designer. A written intensive analysis of each script studied during the semester will be required. Focus will be on the theories of Aristotle and Eugene Scribe's "Well Made Play Formula". Prerequisites: THEA 1352, THEA 2370.

THEA 3335 - UIL Debate and Speech

3 sem. hrs.
This course will prepare students to coach High School speech events as extra-curricular and co-curricular activities. The class will focus primarily on Texas University Interscholastic Leagues (UIL competitions) but will also cover events sponsored by the Texas Forensics Association (TFA) and the National Forensics League (NFL). Areas covered will include oral interpretation, extemporaneous speaking, and debate.

THEA 3340 - Audition Preparation

3 sem. hrs.
Provides the student with the information and skills needed for auditioning in both professional and educational theatre. Prerequisites: THEA 1351, THEA 1352.

THEA 3350 - Production Management

3 sem. hrs.
This course is a survey of stage management and theatre administration. Topics to be studied include stage management, production management, professional unions, publicity/marketing, box office and house management. Prerequisites: THEA 1371, THEA 2370, THEA 3311.

THEA 3370 - History of the Theatre I

3 sem. hrs.
Historical investigation of the nature and function of theatre from primitive rituals through the Renaissance periods with discussions of representative plays/playwrights, theatrical styles and stage design. Prerequisite: THEA 3311.

THEA 3371 - History of the Theatre II

3 sem. hrs.
Historical investigation of theatre from the Restoration era to the present. Focus on the nature and function as well as the critical analysis of theatre and design, various movements, and influential people. Prerequisite: THEA 3311.

THEA 3373 - Principles of Design

3 sem. hrs.
Builds upon the student's practical lab experience and understanding of theatrical design begun in costume construction and theatre stagecraft. Students will explore the creative process of theatre production as it pertains to lighting, set, sound, props, and costume design projects. Prerequisite: THEA 1371, THEA 2370.

THEA 3375 - Acting III: Period Styles

3 sem. hrs.
Specific training for actors in period plays. Emphasis on training the actor for the Classical, Renaissance, Shakespearean, and Modern Periods. Prerequisites: THEA 1351, THEA 1352.

THEA 3380 - History of Theatrical Styles

3 sem. hrs.
A survey and research-oriented course which studies the major impact of the visual, artistic, historical, and social period movements. The course will focus on the approach that the actor, designer, director, and playwright take in developing the understanding of the environment of a play's location and time period. Prerequisite: Approval of Instructor.

THEA 3381 - Drawing and Rendering for the Stage

3 sem. hrs.
Examination of the uses of the various materials used and the development of the techniques employed in the creation and presentation of theatrical renderings and models. Prerequisite: Approval of Instructor.

THEA 3382 - Drafting and Computer-Aided Design for the Stage

3 sem. hrs.
Practical examination and practice in theatrical drafting conventions with an emphasis on the development of hand drafting techniques and CAD (computer-aided design). Prerequisite: THEA 2370.

THEA 3385 - Musical Theatre

3 sem. hrs.
The focus of the course is on musical theatre history, exploring trends in the genre, audition techniques, characterization, staging and choreography.

THEA 4100 - Senior Seminar

1 sem. hrs.
A seminar class for the graduating senior. The student will be given the opportunity to address individual weaknesses and strengths in preparation for graduate school or entering the job market.

THEA 4200 - Senior Capstone

2 sem. hrs.
The course is designed to provide the graduating senior an opportunity to complete a final project in the acting/directing or design/tech focus areas. The student's project will be juried by the entire faculty and include a research and production component.

THEA 4313 - Theatre Technologies

3 sem. hrs.
Designed to provide a forum for intensive study of a particular aspect of modern theatrical technologies. Various topics may be selected based on current industry trends, student needs and available resources. Prerequisites: THEA 2370, THEA 3381, THEA 3382.

THEA 4314 - Collaborative Approaches to Design

3 sem. hrs.
An advanced design course where the student will examine the process of design from the standpoint of the relationship created within the design team. Through class projects, the student will participate in a design process which fosters communication of ideas, written analysis and collaboration in pursuit of a unified design in all aspects of production. Prerequisite: THEA 3373.

THEA 4323 - Oral Interpretation of Children's Literature

3 sem. hrs.
A study, primarily through the medium of performance, of various types and forms of literature for children. Strongly oriented toward teaching literature in the elementary school classroom. (Credit may not be given for both this course and COMM 4323 or ENGL 4370.)

THEA 4333 - Technical Direction

3 sem. hrs.
An advanced technical class geared for the student who wishes to receive training and employment as a technical director. Prerequisite: Approval of Instructor.

THEA 4360 - Stage Direction I

3 sem. hrs.
The study and practical application of directing principals for the beginning director. Elements of script analysis, blocking, movement, character development, tempo, and design will be investigated as part of the directing process. The student will direct a ten-minute play for public performance. Prerequisite: THEA 1352, THEA 3311.

THEA 4361 - Stage Direction II

3 sem. hrs.
An advanced study in directing with actual experience in organization, interpretation, casting, and producing the one-act play. The student will direct a one-act play for public performance. Prerequisite: THEA 4360.

THEA 4365 - Costume Design

3 sem. hrs.
A study of the theory and practice of costume design utilizing the human form as a design element for the stage. Encompasses theatre form, style, and drafting and drawing techniques. Students are required to work on University Theatre productions as part of this course.

THEA 4370 - Set Design

3 sem. hrs.
A study of the theory and practice of set design. Students will learn the fundamentals of theatre design and will apply this knowledge to projects. Projects will encompass theatre form, style, and concept utilization. Students are required to work on University Theatre productions as a part of this course. Satisfies university computer literacy requirement.

THEA 4371 - Acting for the Camera

3 sem. hrs.
Emphasizes the practice of various acting styles for television, video, and film. The student will receive practical experience in commercial styles, public service announcements, television and video style acting, and film scene study. (Credit may not be given for both this course and COMM 4371.)

THEA 4372 - Theatre Practicum

3 sem. hrs.
Advanced practice and participation in set construction, lighting implementation, and stagecraft. Students will build upon skills in the areas of theatre production and design for production in the University Theatre. Class meets twice weekly with additional crew/lab work requirements as well. Students are required to work on University Theatre productions as a part of this course. May be repeated twice for credit.

THEA 4375 - Lighting Design

3 sem. hrs.
A study of the theory and practice of lighting design. Practical experiences in University Theatre are included to provide exposure to the total design and implementation of lighting design. Students will become familiar with the techniques and aesthetics of lighting theatrical performances and will apply skills to create designs for projects and actual plays. Students are required to work on University Theatre productions as a part of this course. Satisfies university computer literacy requirement.

THEA 4380 - Advanced Stage Makeup

3 sem. hrs.
A study of the theory and practice of designing makeup for the stage. Students will learn about aesthetics, application, and techniques of stage makeup. Students will do makeup designs as projects in the class. Students are required to work on University Theatre productions as part of this course.

THEA 4384 - Theatre Production

1-3 sem. hrs.
An applied production experience in which students perform in a play, work back stage or on a stage crew, or learn to design a play or musical from conception to final production. Students enrolling in the course but not cast in the shows will work backstage (technical production) or in another production capacity. Enrollment is by application only, and must be approved by the instructor in advance of registration. As part of the application process the number of credit hours will be determined by the instructor. May be repeated for credit.

THEA 4390 - Topics in Theatre

1-3 sem. hrs.
Study of specialized topics and themes in the areas of acting, directing, and theatre history. May be repeated when topics vary.

THEA 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. By application. Prerequisite: Approval of Instructor.

THEA 4398 - Applied Experience

3 sem. hrs.
See College description. By application. Prerequisite: Approval of Instructor.

University Core Curriculum Programs

UCCP 1101 - First-Year Seminar I.

1 sem. hrs.
Students are introduced to college level work and responsibilities, and provided with appropriate support and resources to successfully navigate their first semester. Required of full-time first-year students; to be taken as a component of a student's first learning community.

UCCP 1102 - First-Year Seminar II.

1 sem. hrs.

Continuation of UCCP 1101. Students participate in academic discourse and prepare for their future coursework and careers. Required of full-time first-year students; to be taken as a component of a student's second learning community.

Women and Gender Studies

WGST 3301 - Introduction to Women and Gender Studies

3 sem. hrs.
An introduction to the study of women and gender across disciplines and cultures. Designed to engage students in some of the most important methodological and theoretical debates regarding women's experiences and the construction of knowledge about women historically and today. Literary, anthropological, sociological, historical, scientific, and managerial perspectives may be included.

WGST 4380 - Senior Seminar in Women and Gender Studies

3 sem. hrs.
This seminar explores the relationship between theory and application in the field of women and gender studies. This includes the

study of feminist theories and methodologies with special attention to the application of these to current debates and social issues. In addition, students must complete a research paper or applied experience project that is relevant for their major field of study.

Religious Studies

RELS 3301 - History of World Religions

3 sem. hrs.
Survey of the key beliefs, practices, rituals, figures, and historical developments of the world's major religious traditions, including Hinduism, Buddhism, Confucianism, Judaism, Christianity, Islam, and New Age religions. Gives particular attention to their encounter with modernity and their complicated place in today's global, diverse, post-modern world.

RELS 4390 - Topics in Religious Studies

3 sem. hrs.
Study of significant traditions, themes, problems, or issues in religion. May be repeated when topics vary.

RELS 4396 - Directed Individual Study

1-3 sem. hrs.
See College description. Offered on application. Subject to approval of Religious Studies program coordinator.

Chinese

CHIN 1311 - Chinese I

3 sem. hrs. TCCNS Equivalent: CHIN 1311
Introduction to listening, speaking, reading and writing skills within a Chinese cultural framework. For students without previous knowledge of Mandarin Chinese. (Language Laboratory required. One hour per week.) A lab fee is required for this course.

CHIN 1312 - Chinese II

3 sem. hrs. TCCNS Equivalent: CHIN 1312
Continued practice in listening, speaking, reading and writing skills within a Chinese cultural framework. For students without

previous knowledge of Mandarin Chinese. CHIN 1311 - Chinese I or equivalent is required. (Language Laboratory required. One hour per week.) A lab fee is required for this course.

University Studies

UNVS 4350 - University Studies Capstone

3 sem. hrs.

This course emphasizes writing, research, professionalization, and workforce preparation. Students will be responsible for developing a reflective writing portfolio that showcases their academic specialization and preparation within the University Studies program. The course will also cover the practical skills of obtaining employment, including writing resumes, effectively interviewing, and effectively searching for available jobs.

Other Courses

KINE 4309 - Finance Management in Sport

3 sem. hrs. Lecture
This course is designed to provide knowledge of financial planning and administration. This includes, but not limited to, basic budget terminology, sources of financing for operating and capital expenditures, expenditure policies, auditing and the grant process. Pre-requisite: ECON 2301

Catalog Home

Texas A&M University-Corpus Christi

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Accreditation

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

The Athletic Training Education Program which offers a Bachelor of Science degree with a Major in Athletic Training is accredited by the Commission on Accreditation of Athletic Training Education (CAATE), 2201 Double Creek Drive, Suite 5006, Round Rock, TX 78664; telephone (512) 733-9700.

The accounting and business bachelor's and master's degree programs are accredited by AACSB International – The Association to Advance Collegiate Schools of Business, 777 South Harbour Island Boulevard, Suite 750, Tampa, FL 33602-5730; USA; telephone 813-769-6500; fax 813-769-6559.

The undergraduate and graduate nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW, Suite 530, Washington, DC 20036-1120; telephone (202) 887-6791.

Texas A&M University-Corpus Christi is an accredited institutional member of the National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190-5248.

The clinical laboratory science program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Rd. Suite 720, Rosemont, IL 60018-5119 – telephone: 773-714-8880.

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Emeritus Faculty and Administrative Officers

(As of February 2016)

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Many emeritus faculty members and administrators continue to serve the University during their retirement.

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Hain, PaulCollege of Arts and Humanities

Marinez, DianaCollege of Science and Engineering

Richards, John M.College of Business

Wagenschein, MiriamCollege of Arts and Humanities

Faculty Emerita/Emeritus

Barnes, Stephen S.Professor Emeritus of Chemistry

Berkebile, AlanProfessor Emeritus of Geology

Bezdek, RobertProfessor Emeritus of Political Science

Cameron, PaulAssociate Professor Emeritus of Accounting

Carpenter, John M.Professor Emeritus of Management

Carrillo, LeonardoProfessor Emeritus of Mexican American Studies

Carroll, PatrickProfessor Emeritus of History

Cassidy, JackProfessor Emeritus of Reading

Cox, CatherineProfessor Emerita of English

Cross, Wilton RayProfessor Emeritus of Educational Leadership

Drum, RandellProfessor Emeritus of Education

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Freeman, Janice R.Professor Emerita of Biology

Freeman, Joyce F.Professor Emerita of Biology

Hain, PaulProfessor Emeritus of Public Administration

Haswell, JanisProfessor Emerita of English

Haswell, RichardProfessor Emeritus of English

Haynes, Herbert R.Professor Emeritus of Computer Science

Howard, Ronald M.Professor Emeritus of Education

Huie, William "Bill"Professor Emeritus of Communication

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Knight, Earnest LeonProfessor Emeritus of Marketing

Logsdon, SamProfessor Emeritus of Music

Maroney, Robert E.Professor Emeritus of Education

McMinn, Robert D.Professor Emeritus of Economics

Mead, DavidProfessor Emeritus of English

Meyer, PatriciaProfessor Emerita of Early Childhood Education

McKee, DavidProfessor Emeritus of Marine Biology

Norrell, Clarence L.Professor Emeritus of Education

Pennington, MarieAssociate Professor Emerita of Kinesiology

Purdy, RossProfessor Emeritus of Sociology

Shepperd, RichardProfessor Emeritus of Occupational Training and Development

Shirley, ThomasProfessor Emeritus of Marine Biology

Spencer, MarthaProfessor Emerita of Education

Stevenson, John W.Professor Emeritus of Accounting

Sutherland, JudithProfessor Emerita of Nursing

Trevino, Albert D.Professor Emeritus of Education

Tunnell, John "Wes"Professor Emeritus of Biology

Vokurka, RobertProfessor Emeritus of Operations Management

Wagenschein, MiriamProfessor Emerita of Sociology

Weiner, LawrenceProfessor Emeritus of Music and Composer-in-Residence Emeritus

Whitmire, RayProfessor Emeritus of Finance

Wells, Tim J.Professor Emeritus of Teaching Education

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Bill Mahomes	(term expires 2015)
Student Regent	

(As of June 2015)

Administration

(As of June 2015)

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Associate Vice President for Special Projects	
Associant Vice President for Student Affairs and Dean of Students	Ann DeGaish, B.S., M.S.
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Dean of College of Education	Arthur Hernandez, B.A., M.A., Ph.D.
Interim Dean of College of Liberal Arts	Mark Hartlaub, B.A., M.A., Ph.D.
Dean of College of Nursing and Health Sciences	Mary Jane Hamilton, B.S.N., M.S., Ph.D.
Dean of College of Science and Engineering	Frank L. Pezold, III, B.A., M.S., Ph.D.
Interum Dean of Community Outreach	Joe Miller, B.A.
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Director of Intercollegiate Athletics	Scott Lazenby
Director of South Texas Institute for the Arts	Joseph Schenk, B.A., M.A.
Chief of Staff	Mary Sherwood, B.J., M.P.A., Ph.D.

Administrative Staff

Academic Affairs

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Director of Academic Testing	Judith Perales, B.B.A, M.B.A.

Director of Assessment and Continuous Improvement	vacant
Director of Academic Policy and Administration	vacant
Director of Admissions	Oscar Reyna
Director, Athletic Academic Services	Jennifer Baker, B.S., M.S.
Director, Blucher Institute for Surveying and Science	Gary Jeffress, B.Surv., M.Surv.Sci., Ph.D.
Director, Center for Faculty Excellence	Bradley Shope, B.S., M.A., Ph.D.
Director of Center for Coastal Studies and Associate Director of the Harte Research Institute	Paul Zimba, B.A., M.S., Ph.D.
Director of Core Curriculum	Juan Carlos Huerta, B.A., M.A., Ph.D.
Director of Education and Youth Issues	Joe Miller, B.A.
Director of Distance Education	Lauren Cifuentes, B.A., M.A.T., M.A., Ph.D.
Director of Financial Assistance	Jeannie Gage, B.S.
Director, First-Year Islanders	Susan Wolff Murphy, B.A., M.A., Ph.D.
Director, Honors Program	Elizabeth Shope
Director of International Education	Ana Billeaux, B.A., M.S.
Director of Air Quality Programs	Christina Cisneros
Director of Title V-Graduate Programs	Laura Rosales, B.B.A., M.B.A., Ed.D.
Director of Title V/TRIO	vacant
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Director of Workforce Development	Moody, Carole, B.A.
Registrar and Director of Veterans Affairs	Michael Rendon, B.A.

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Bursar	Christina Holzheuser, B.S.
Director of Budgets	Jaclyn Mahlmann, B.B.A.

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Director of Equal Opportunity/Employee Relations	Samuel Ramirez, B.S., M.A.
Director of Human Resources	Debra Ann Cortinas, P.H.R., B.B.A.
Director of Contracts and Property	John Casey
Director of Procurement and Dispursements	Will Hobart
Director of University Services	Reginald Wade, B.S.

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Director of Development	Noel O. Vella, B.S., M.B.A.
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Director of Career Services	Jo Anna Benavides-Franke, B.B.A., M.S.
Director of Disabilities Services	Rachel A. Cox, B.A., M.S.
Director of Recreational Sports	vacant
Director of University Center and Student Activities	Lisa Perez, B.S., M.Ed.
Executive Director of University Counseling Center and University Health Center	Carla Berkich, B.A, M.A., Ph.D.
Director of University Health Center	Kelly Jenschke, R.N., B.S.N.
Director of University Housing	Amanda Chesser Drum, B.S., M.S., Ph.D.
Director of the Women's Center	Randa Faseler Schell, B.B.A, M.Ed.

Appendices

- A: Glossary
- B: Lower-Division Transfer Courses: Common Courses.
- C: Prevention of Alcohol Abuse and Illicit Drug Use
- D: Hazing
- E. Student Travel Rule

A: Glossary

Admission	The process of being brought into the University. A student is not considered for admission until all specified forms and fees have been received.
Census Date	The day, each term, on which official calculations are determined. For semesters it is the 12th class day, and for summer terms the 4th class day. Registration and Adds may not occur after this date.
Class Days	The days, Monday through Friday, during which the University is in session; **not** the days on which an individual class meets.
Degree Student	One admitted to a degree program.
Drop	The process of terminating enrollment in one or more classes while remaining enrolled for at least one class for the same semester. A fee is charged for dropping a class after the term has started.
Full Time	A degree-seeking undergraduate attempting 12 or more semester hours in a semester. A degree-seeking graduate student attempting 9 semester hours in a semester.
GPA	**G**rade **P**oint **A**verage. Please check elsewhere in this catalog for method of calculation.
Graduation	The ceremonial completion of a degree program. The degree is not awarded until all academic requirements are certified as completed. The student initiates application for graduation at point of registration for last term of study. Application must be processed for each attempt.
Graduate Student	A student who holds a baccalaureate degree and is enrolled in a graduate program of study.
Hold	A note placed in a student record which restricts a particular activity. Only the office which places a hold can remove it.
Late Registration	A period beginning with the first day of classes and ending on or

	before the census date during which registration may occur. Special permission may be required. A late registration fee is assessed.
Matriculation	The initial registration as a degree-seeking student toward a particular degree. A student matriculates once for each degree.
Non-Degree Student	One taking classes without the expectation of receiving a degree. A non-degree student is neither part time nor full time, and is not classified as freshman, sophomore, junior, or senior.
Pre/Co Requisite	A requirement that must be completed *before/at the same time* a course may be attempted.
Registration	Reserving space in a course (a process called tallying) followed by payment of all tuition and fees: it is a two-part process. Registration is not completed until payment has occurred.
Restricted Course	One for which admission is limited to a particular classification of student. A student who has been enrolled in error can be removed administratively.
Transcript	A record of a student's academic history at the University. It is prepared by the Office of Admissions and Records. Please check with that office for preparation schedule and fees.
Withdrawal	The process of dropping **all** classes for a given term. A check-out process is involved, and the student is not associated with the University until he/she seeks reinstatement for a subsequent term.

B: Lower-Division Transfer Courses: Common Courses.

Texas Common Course Numbering System (TCCNS)

The Texas Common Course Numbering System (TCCNS) is a cooperative effort among Texas community colleges and universities to facilitate transfer of freshman- and sophomore-level general academic courses.

The TCCNS provides a shared, uniform set of course designations for students and their advisors to use in determining both course equivalency and degree applicability of transfer credit on a statewide basis. When students transfer between two

participating TCCNS institutions, a course taken at the sending institution transfers as the course carrying, or cross-referenced with, the same TCCNS designation at the receiving institution.

In the common course numbering system, each course is identified by a four-letter "rubric" (i.e., prefix or department abbreviation) and a four-digit number. The first digit of the number reflects the academic level of the course (1 and 2 are lower-division courses) and the second digit reflects the semester-credit-hour value of the course. The third and fourth digits establish course sequencing and/or distinguish this course from others of the same level, credit value, and rubric. A&M-Corpus Christi uses this format as the basis for numbering most lower-division courses.

Table of Common Courses

The following table identifies selected TCCNS courses and the equivalent lower-division A&M-Corpus Christi courses. The equivalency table is updated periodically.

Students attending community colleges or universities that are participating TCCNS institutions may use the table as a guide in selecting courses that will transfer to A&M-Corpus Christi. Students should become familiar with the requirements of the University Core Curriculum Program and with degree requirements so that they may select appropriate transfer courses. (A list of core curriculum transfer courses is provided later in this chapter.)

Some college-level courses that are not equivalent to courses at the University may transfer for credit. The Office of Admissions and Records can provide information about the transferability of particular courses.

TCCNS Courses		**A&M-Corpus Christi Course Numbers & Titles**	
ACCT 2301	Principles of Accounting I - Financial	ACCT 2301	Financial Accounting
ACCT 2302	Principles of Accounting II - Managerial	ACCT 2302	Managerial Accounting
ARTS 1301	Art Appreciation	ARTS 1301	Art and Society
ARTS 1303	Art History I	ARTS 1303	Art History Survey I
ARTS 1304	Art History II	ARTS 1304	Art History Survey II
ARTS 1311	Design I *(2-dimensional)*	ARTS 1311	Design I
ARTS 1312	Design II *(3-dimensional)*	ARTS 1312	Design II
ARTS 1316	Drawing I	ARTS 1316	Drawing I
ARTS 1317	Drawing II	ARTS 1317	Drawing II
ARTS 2316	Painting I	ARTS 2316	Painting I
ARTS 2323	Drawing III	ARTS 2323	Drawing III
ARTS 2326	Sculpture I	ARTS 2326	Sculpture I
ARTS 2333	Printmaking I	ARTS 2333	Printmaking I
ARTS 2346	Ceramics I	ARTS 2346	Ceramics I
ARTS 2356	Photography I *(fine arts emphasis)*	ARTS 2356	Photography I

BIOL 1308	Biology for Non-Science MajorsI	BIOL 1308	Science for Life I (Non-Majors)
BIOL 1406	Biology for Science Majors I	BIOL 1406	Biology I
BIOL 1407	Biology for Science Majors II	BIOL 1407	Biology II
BIOL 2401	Anatomy and Physiology I	BIOL 2401	Anatomy and Physiology I
BIOL 2402	Anatomy and Physiology II	BIOL 2402	Anatomy and Physiology II
BIOL 2416	Genetics	BIOL 2416	Genetics
BIOL 2420	Microbiology for Non-Science Majors	BIOL 2420	Principles of Microbiology (for nonmajors of life sciences)
BIOL 2421	Microbiology for Science Majors	BIOL 2421	Microbiology
BCIS 1305	Business Computer Applications	MISY 2305	Computer Applications in Business
BUSI 1301	Business Principles	BUSI 1310	Intro. to Business Environment
BUSI 1307	Personal Finance	FINA 1307	Personal Finance
CHEM 1305	Introductory Chemistry I	CHEM 1305	Introductory Chemistry
CHEM 1411	General Chemistry I	CHEM 1411	General Chemistry I
CHEM 1412	General Chemistry II	CHEM 1412	General Chemistry II
CHIN 1311	Beginning Chinese I	CHIN 1311	Chinese I
CHIN 1312	Beginning Chinese II	CHIN 1312	Chinese II
COMM 1307	Introduction to Mass Communication	COMM 1307	Media and Society
COMM 2366	Introduction to Film	COMM 2366	Media Forms
COSC 1300	Introduction to Computing	COSC 1315	Computer Literacy
COSC 1330	Computer Programming	COSC 1330	Prog Scientists, Engineers, Math
COSC 1436	Programming Fundamentals I	COSC 1435	Introduction to Problem Solving with Computers I
COSC 1437	Programming Fundamentals II	COSC 1436	Introduction to Problem Solving with Computers II
COSC 2415	Data Structures	COSC 2437	Data Structures
CRIJ 1301	Introduction to Criminal Justice	CRIJ 1301	Introduction to Criminal Justice
CRIJ 1313	Juvenile Justice System	CRIJ 1313	The Juvenile Justice System
CRIJ 2328	Police Systems and Practices	CRIJ 2328	Police Systems and Practices
DANC 1141	Ballet I	DANC 1141	Ballet I

DANC 1147	Jazz Dance I	DANC 1147	Jazz Dance I
DANC 1145	Modern Dance I	DANC 1148	Modern Dance I
DANC 1351	Dance Performance I	DANC 1304	Dance in Performance
DRAM 1120	Theater Practicum I	THEA 1100	Theatre Production Lab I
DRAM 1121	Theater Practicum II	THEA 1101	Theatre Production Lab II
DRAM 1310	Introduction to Theatre	THEA 1310	The Art of the Theatre
DRAM 1341	Makeup	THEA 1341	Stage Makeup
DRAM 1342	Introduction to Costume	THEA 1371	Costume Construction
THEA 1351	Acting I	THEA 1351	Acting I
DRAM 1352	Acting II	THEA 1352	Acting II
DRAM 2120	Theatre Practicum III	THEA 2100	Theatre Production Lab III
DRAM 2121	Theatre Practicum IV	THEA 2101	Theatre Production Lab IV
DRAM 2366	Development of the Motion Picture	COMM 2366	Media Forms
ECON 2301	Principles of Macroeconomics	ECON 2301	Macroeconomics Principles
ECON 2302	Principles of Microeconomics	ECON 2302	Microeconomics Principles
ENGL 1301	Composition I	ENGL 1301	Composition I
ENGL 1302	Composition II	ENGL 1302	Composition II
ENGL 2332	World Literature I	ENGL 2332	Literature of the Western World: From the Classics to the Renaissance
ENGL 2333	World Literature II	ENGL 2333	Literature of the Western World: From the Enlightenment to the Present
ENGR 1201	Introduction to Engineering	ENGR 1211	Foundations of Engineering I
ENGR 1204	Engineering Graphics I	ENGR 1312	Foundations of Engineering II
ENGR 2301	Engineering Mechanics I-Statics	ENGR 2325	Statics
ENGR 2302	Engineering Mechanics-Dynamics	ENGR 2326	Dynamics
ENGR 2305	Circuits I for Electrical	ENGR 2460	Circuit Analysis Engineering
ENGR 2332	Mechanics of Materials	ENGR 3320	Strength of Materials
ENGT 1401	Circuits I for Engineering Technology	ENTC 2414	Circuit Analysis I
ENVR 1401	Environmental Science I	ESCI 1401	Environmental Science I: Introduction to Environmental Science

FREN 1311	Beginning French I	FREN 1311	French I
FREN 1312	Beginning French II	FREN 1312	French II
FREN 2311	Intermediate French I	FREN 2311	French III
FREN 2312	Intermediate French II	FREN 2312	French IV
GEOG 1300	Principles of Geography	GEOG 1300	World Geography
GEOG 1301	Physical Geography	GISC 1301	Physical Geography & Mapping
GEOL 1403	Physical Geology	GEOL 1403	Physical Geology
GEOL 1404	Historical Geology	GEOL 1404	Historical Geology
GERM 1311	Beginning German I	GERM 1311	German I
GERM 1312	Beginning German II	GERM 1312	German II
GERM 2311	Intermediate German I	GERM 2311	German III
GERM 2312	Intermediate German II	GERM 2312	German IV
GOVT 2305	Federal Government (Federal Constitution & Topics)	POLS 2305	U.S. Government and Politics
GOVT 2306	Texas Government (TX Const)	POLS 2306	State & Local Government
HIST 1301	United States History I	HIST 1301	U.S. History to 1865
HIST 1302	United States History II	HIST 1302	U.S. History Since 1865
HIST 2311	Western Civilization I	HIST 2311	Western Civilization I
HIST 2312	Western Civilization II	HIST 2312	Western Civilization II
MATH 1314	College Algebra	MATH 1314	College Algebra
MATH 1316	Plane Trigonometry	MATH 1316	Trigonometry
MATH 1324	Mathematics for Business & Social Sciences I	MATH 1324	Business Mathematics
MATH 1325	Mathematics for Business & Social Sciences II (business Calculus)	MATH 1325	Business Calculus
MATH 1350	Fundamentals of Mathematics I	SMTE 1350	Fundamentals of Mathematics I
MATH 1351	Fundamentals of Mathematics II	SMTE 1351	Fundamentals of Mathematics II
MATH 1442	Elementary Statistical Methods	MATH 1442	Statistics for Life
MATH 2305	Discrete Mathematics	MATH 2305	Discrete Mathematics I
MATH 2312	Precalculus Math	MATH 2312	Precalculus

MATH 2413	Calculus I	MATH 2413	Calculus I
MATH 2414	Calculus II	MATH 2414	Calculus II
MUSI 1116	Elementary Sight Singing & Ear Training I	MUSI 1116	Aural Training I
MUSI 1117	Elementary Sight Singing & Ear Training II	MUSI 1117	Aural Training II
MUSI 1181	Piano Class I	MUSI 1181	Class Piano I
MUSI 1182	Piano Class II	MUSI 1182	Class Piano II
MUSI 1303	Fundamentals of Music *(guitar)*	MUSI 1303	Basic Guitar I
MUSI 1306	Music Appreciation	MUSI 1306	Understanding & Enjoying Music
MUSI 1307	Music Literature *(one semester version)*	MUSI 1307	Elements of Musical Style
MUSI 1311	Music Theory I	MUSI 1311	Musicianship I
MUSI 1312	Music Theory II	MUSI 1312	Musicianship II
MUSI 2116	Advanced Sight Singing & Ear Training I	MUSI 2116	Aural Training III
MUSI 2117	Advanced Sight Singing & Ear Training II	MUSI 2117	Aural Training IV
MUSI 2181	Piano Class III	MUSI 2181	Class Piano III
MUSI 2182	Piano Class IV	MUSI 2182	Class Piano IV
MUSI 2311	Music Theory III	MUSI 2311	Musicianship III
MUSI 2312	Music Theory IV	MUSI 2312	Musicianship IV
PHED 1151	Scuba Diving I	KINE 1151	Scuba and Snorkeling
PHED 1206	First Aid	KINE 2215	First Aid and Safety
PHED 1301	Introduction to Physical Fitness & Sport	KINE 2313	Foundations of Kinesiology
PHED 2255	Water Safety	KINE 2255	Water Safety Instruction
PHIL 1301	Introduction to Philosophy	PHIL 1301	Introduction to Philosophy
PHIL 2303	Introduction to Logic	PHIL 2303	Introduction to Logic and Critical Thinking
PHIL 2306	Introduction to Ethics	PHIL 2306	Foundations of Professional Ethics
PHYS 1303	Stars and Galaxies	PHYS 1303	Intro Astronomy: Stars & Galaxies
PHYS 1304	Solar System	PHYS 1304	Intro Astronomy: Solar System
PHYS 1401	College Physics I	PHYS 1401	General Physics I

PHYS 1402	College Physics II	PHYS 1402	General Physics II
PHYS 2425	University Physics I	PHYS 2425	University Physics I
PHYS 2426	University Physics II	PHYS 2426	University Physics II
PSYC 2301	General Psychology	PSYC 2301	General Psychology
PSYC 2314	Life Span Growth & Development	PSYC 2314	Life Span Developmental Psyc.
PSYC 2319 or SOCI 2326	Social Psychology	PSYC 2326	Social Psychology
SOCI 1301	Introductory Sociology	SOCI 1301	Human Societies
SOCI 2326 *or* PSYC 2319	Social Psychology	SOCI 2326	Social Psychology
SPAN 1311	Beginning Spanish I	SPAN 1311	Spanish I
SPAN 1312	Beginning Spanish II	SPAN 1312	Spanish II
SPAN 2311	Intermediate Spanish I	SPAN 2311	Spanish III
SPAN 2312	Intermediate Spanish II	SPAN 2312	Spanish IV
SPAN 2313	Spanish for Native Speakers I	SPAN 2313	Spanish for Native Speakers
SPCH 1315	Public Speaking	COMM 1315	Public Speaking
SPCH 1318	Interpersonal Communication	COMM 1318	Interpersonal Communication
SPCH 1342	Voice and Diction	COMM 1342 *or* THEA 1342	Voice and Diction
SPCH 2333	Discussion & Small Group	COMM 2333	Small Group Communication Communication

Lower-Division Core Curriculum Transfer Courses

The core curriculum requirements are discussed in the "University Core Curriculum Program" section of this catalog. The following table lists lower-division A&M-Corpus Christi core curriculum courses for which there are transfer equivalents. The approved core curriculum transfer courses are identified by their common course numbers and titles.

Transfer students also have several other means of meeting the core curriculum requirements. See "General Education Requirement" in the section entitled "Undergraduate Programs" for details.

A&M-Corpus Christi Core Courses	**Core Transfer Courses (Texas Common Course Numbers and Titles)**
English Composition	
ENGL 1301 - Composition I	ENGL 1301 Composition I

ENGL 1302 - Composition II	ENGL 1302 Composition II

U.S. History

HIST 1301 - U.S. History to 1865	HIST 1301 U.S. History to 1865
HIST 1302 - U.S. History Since 1865	HIST 1302 U.S. History Since 1865
	(HIST 2301 Texas History may be substituted for either HIST 1301 or HIST 1302 to meet 3 hours of the Core History requirement at A&M-CC. However, taking both HIST 1301 and HIST 1302 rather than making the Texas History substitution is strongly recommended.)

Political Science

POLS 2305 - U.S. Government and Politics	GOVT 2305 Amer. Govt. I (Federal)
POLS 2306 - State and Local Government	GOVT 2306 Amer. Govt. II (State)
	or both of the following to fulfill the two-course requirement: A. GOVT 2301 Amer. Govt. I (Combined Fed. & State/inc. Const.)* and B. GOVT 2302 Amer. Govt. II (Combined Fed. & State)* *It is recommended that students take both courses to satisfy these requirements at one institution. Alternatively, students who have completed POLS 2305 or POLS 2306 at A&M-Corpus Christi may transfer common course GOVT 2301 from another institution to meet the two-course requirement. Students who have completed GOVT 2301 at another institution may take either POLS 2305 or POLS 2306 at A&M-Corpus Christi. Any student who is uncertain about how to complete this requirement should contact a transfer counselor at (361) 825-2257 or 2258 to ensure that the combination of courses taken covers both the U. S. and Texas constitutions.

Natural Science

Select two from:

BIOL 1308 Science for Life I (Non-Majors Biology)	BIOL 1308 Biology for Non-Science Majors I
BIOL 1406 - Biology I	BIOL 1406 General Biology I
BIOL 1407 - Biology II	BIOL 1407 General Biology II
BIOL 2401 Anatomy and Physiology I	BIOL 2401 Anatomy & Physiology I
BIOL 2402 Anatomy and Physiology II	BIOL 2402 Anatomy & Physiology II

BIOL 2420 Principles of Microbiology	BIOL 2420 Microbiology for Non-Science Majors
CHEM 1305 Introductory Chemistry	CHEM 1305 Introductory Chemistry I
CHEM 1411 - General Chemistry I	CHEM 1411 General Chemistry I
CHEM 1412 - General Chemistry II	CHEM 1412 General Chemistry II
ESCI 1401 - Environmental Science I: Intro to Environmental Science	ENVR 1401 Environmental Science I
GISC 1301 Physical Geography and Mapping	GEOG 1301 Physical Geography & Mapping
GEOL 1303 Essentials of Geology	GEOL 1303 Physical Geology
GEOL 1403 - Physical Geology	GEOL 1403 Physical Geology
GEOL 1404 - Historical Geology	GEOL 1404 Historical Geology
PHYS 1303 Introduction to Astronomy: Stars and Galaxies	PHYS 1303 Stars and Galaxies
PHYS 1304 Introduction to Astronomy: Solar System	PHYS 1304 Solar System
PHYS 1401 - General Physics I	PHYS 1401 College Physics I
PHYS 1402 - General Physics II	PHYS 1402 College Physics II
PHYS 2425 - University Physics I	PHYS 2425 University Physics I
PHYS 2426 - University Physics II	PHYS 2426 University Physics II

Mathematics
Select one from:

MATH 1314 - College Algebra	MATH 1314 College Algebra
MATH 1324 - Business Mathematics	MATH 1324 Mathematics for Business & Social Sciences I (finite mathematics)
MATH 1325 - Business Calculus	MATH 1325 Mathematics for Business & Social Sciences II (business calculus)
MATH 1442 - Statistics for Life	MATH 1342 Elementary Statistical Methods*** or MATH 1442 Elementary Statistical Methods
MATH 2413 - Calculus I	MATH 2413 Calculus I (MATH 2313 Calculus I is also acceptable)
	***MATH 1342 will only be accepted for core curriculum credit if it is in the core curriculum of the transferring institution.
PHIL 2303 Introduction to Logic and Critical Thinking	PHIL 2303 Introduction to Logic

Oral Communication

COMM 1315 - Public Speaking	SPCH 1315 Public Speaking

Economics
Select one from:

ECON 2301 - Macroeconomics Principles	ECON 2301 Principles of Macroeconomics
ECON 2302 - Microeconomics Principles	ECON 2302 Principles of Microeconomics

Social Science
Select one from:

PSYC 2301 - General Psychology	PSYC 2301 General Psychology
SOCI 1301 - Human Societies	SOCI 1301 Introductory Sociology

Literature
Select one from:

ENGL 2332 - Literature of the Western World: From the Classics to the Renaissance	ENGL 2332 World Literature I
ENGL 2333 - Literature of the Western World: From the Enlightenment to the Present	ENGL 2333 World Literature II
	ENGL 2321 British Literature
	ENGL 2326 American Literature
	Any one of the following will also fulfill the literature requirement: ENGL 2322 British Literature I ENGL 2323 British Literature II ENGL 2327 American Literature I ENGL 2328 American Literature II

Fine Arts
Select one from:

ARTS 1301 - Art and Society	ARTS 1301 Art Appreciation
ARTS 1303 Art History Survey I	ARTS 1303 Art History I
COMM 1305 - Film and Culture	COMM 2366 Media Forms or DRAM 2366 Development of the Motion Picture I
MUSI 1306 - Understanding and Enjoying Music	MUSI 1306 Music Appreciation
MUSI 1307 - Elements of Musical Style	MUSI 1307 Music Literature

THEA 1310 - The Art of the Theatre	DRAM 1310 Introduction to Theatre

Note: Additional courses that are not included in the above list may fulfill specific A&M-Corpus Christi core curriculum requirements. For more information on transfer equivalencies, please contact a Directory of Transfer Admissions Services at (361) 825-5962.

C: Prevention of Alcohol Abuse and Illicit Drug Use

Texas A&M University-Corpus Christi is committed to a campus-wide plan to educate students and employees about alcohol and drug issues, discourage the irresponsible use of alcoholic beverages, and prohibit the unlawful use, possession or distribution of controlled substances. The University will act to ensure compliance with all local, state, and federal laws, System policies and University rules and procedures dealing with controlled substances, illicit drugs, and the use of alcohol. The Student Handbook and Code of Conduct provides information on alcohol and drug rules and university sanctions. To review the Student Code of Conduct online, go to http://judicialaffairs.tamucc.edu.

Alcohol and Drug Rules

The University prohibits the use or possession of alcoholic beverages on campus by any individual under the age of 21. Failure to comply with this rule violates state law and the rules governing student conduct and will subject the individual to disciplinary action.

Students of lawful age under Texas Statutes may possess and/or consume alcoholic beverages in the privacy of their rooms or apartments in campus residence facilities. However, residence hall occupants and their guests must comply with state and local statutes concerning possession, sale, and consumption of alcoholic beverages. Any use of alcoholic beverages should be in moderation. Therefore, bulk quantities of alcohol (kegs, cases, party balls, etc.) are not allowed on campus or in residence facilities. Loud or disruptive behavior, interference with the cleanliness of residence facilities, or drinking habits that are harmful to the health or education of an individual or those around him/her are reasons for appropriate disciplinary action by the University.

With limited exceptions, the possession of open containers and the consumption of beer, wine, and/or distilled spirits is prohibited in all public areas of the campus. For the purposes of this rule, residence hall balconies and patios are considered public areas. Although students of lawful age may possess and consume alcoholic beverages in the privacy of their rooms or apartments, all alcoholic beverages transported through public areas on the University grounds and in residence facilities must be unopened and concealed.

All members of the University community are expected to abide by state and federal laws pertaining to controlled substances and illicit drugs. Standards of conduct strictly prohibit the unlawful manufacture, distribution, possession or use of controlled substances, illicit drugs or drug paraphernalia on University property, at University-sponsored activities, and/or while on active duty. Individuals may use prescription medications that are medically necessary and prescribed by a licensed physician.

While the University has limited jurisdiction when alcoholic beverages and illegal drugs are consumed off-campus, members of the University community are encouraged to consider these regulations as a guideline for responsible and lawful behavior. Any recognized student organization that plans to include alcohol at an official function off-campus must obtain permission from Student Activities under the University risk management guidelines. Failure to comply with this requirement will be reason for appropriate disciplinary action by the University.

Alcohol and Drug Use Prevention Program

To implement an effective drug and alcohol abuse prevention plan, the University will use both formal and informal channels of communication to: 1) disseminate information describing patterns of addiction and the physical, mental, and emotional consequences that result from the abuse of alcohol and controlled/illegal substances, 2) distribute information that describes and encourages the use of counseling and treatment modalities available to both students and employees in the local and regional area, and 3) make available to the campus population referrals to local treatment centers and counseling programs. These referrals will be made within a supportive, confidential, and non-punitive environment under the auspices of the University Health Center, Counseling Center, and/or Human Resources.

University Sanctions

Students suspected or found in violation of University drug or alcohol rules and regulations will be notified in writing to appear for a hearing with a judicial affairs officer. Procedures for hearings are outlined in the Student Code of Conduct.

A student found responsible for violating the rules and regulations will be subject to sanctions commensurate with the offenses and any aggravating and mitigating circumstances. Disciplinary actions in cases involving alcohol and drug-related violations result in sanctions up to and including suspension or expulsion from the University and referral for prosecution. Any disciplinary action imposed by the University may precede and be in addition to any penalty imposed by an off-campus authority. Students will be advised of available alcohol and drug counseling at the University Counseling Center and/or referred to a community organization. The University Counseling Center and the University Health Center can provide assistance and referral to appropriate community agencies.

Advisors and faculty members have the responsibility to supervise student activities on all trips. Faculty members should inform students that actions violating state laws, local regulations, and University rules regarding alcohol and drugs will not be permitted on any University trip. Students who violate these guidelines regarding alcohol and drug use on field trips will be subject to disciplinary action.

Health Risks

Alcohol abuse can cause many health-related problems. Approximately 150,000 deaths annually are directly related to alcohol abuse and/or alcoholism. Alcohol abuse can lead to alcoholism, premature death through overdose, and complications involving the brain, heart, liver, and many other body organs. Alcohol abuse is a prime contributor to suicide, homicide, motor vehicle deaths, and other accidental causes of death. Alcohol abuse also causes liver disease, gastritis, and anemia.

Alcohol abuse interferes with psychological functions, causes interpersonal difficulties, and is involved in many cases of child abuse. Alcohol abuse also disrupts occupational effectiveness and causes legal and financial problems. Alcohol used in any amount by a pregnant woman can cause birth defects.

The abuse of illicit drugs can result in a wide range of health problems. In general, illicit drug use can result in drug addiction, death by overdose, death from withdrawal, seizures, heart problems, infections (i.e., HIV/AIDS, hepatitis), liver disease, and chronic brain dysfunctions. Other problems associated with illicit drug use include psychological dysfunctions such as memory loss, thought disorders (i.e., hallucinations, paranoia, psychosis), and psychological dependency. Additional effects include occupational, social, and family problems as well as a reduction in motivation. Drug use by a pregnant woman may cause addiction or health complications in her unborn child.

Campus Resources

A&M-Corpus Christi offers a variety of programs to promote healthy lifestyles and substance-free alternatives. Students can become involved with the planning of drug and alcohol education programs by contacting the Division of Student Affairs at 361-825-2612.

University Counseling Center - The University Counseling Center offers students individual counseling, educational programming and support groups focused on alcohol and other drug use, abuse and addiction. An Alcohol Education Program for Minors is also available for minors cited/charged with alcohol-related offenses (MIP, DUI, and Public Intoxication). For more information, call 361-825-2703 or visit the web site at http://counseling.tamucc.edu.

University Health Center - The University Health Center can provide information about the health risks of drug and alcohol abuse, as well as general medical care for students. For more information, call 361-825-2601.

I-ADAPT - I-ADAPT (Islander's Alcohol and Drug Abuse Prevention Team) is committed to promoting healthy choices among the A&M-Corpus Christi campus community in order to reduce the negative consequences of alcohol and drug use/abuse. For more information, call 361- 825-2612.

National Collegiate Alcohol Awareness - Each year, I-ADAPT plans a variety of interactive and educational events during the month of October in conjunction with National Collegiate Alcohol Awareness Week. Call 361-825-2703 for more information.

University Police Department - The University Police Department educates the University community about drug and alcohol issues as well as enforces local, state and federal law. For more information, call 361-825-4444.

Annual Security Report - This report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by A&M-Corpus Christi; and on public property within, or immediately adjacent to and accessible from, the campus. The report also includes institutional policies concerning campus security, such as policies concerning sexual assault, and other matters. Obtain a copy of this report by contacting the University Police Department 361-825-4444 or by accessing the following web site: http://falcon.tamucc.edu/~police/UPD/statis.htm.

D: Hazing

The following is a summary of Chapter 37, subchapter F. (§§ 37.151-157) of the Texas Education Code, which prohibits hazing in Texas public or private high schools. Texas Education Code § 51.936 applies Chapter 37's prohibition on hazing to institutions of higher education. This summary of Chapter 37 is provided as required by § 51.936(d).

The Education Code defines hazing as "any intentional, knowing, or reckless act, occurring on or off the campus of an educational institution, by one person alone or acting with others, directed against a student, that endangers the mental or physical health or safety of a student for the purpose of pledging, being initiated into, affiliating with, holding office in, or maintaining membership in an organization." The statute contains a list of conduct which constitutes hazing.

Hazing is a criminal violation under Texas law. A person may be found guilty of criminal conduct for hazing, encouraging hazing, permitting hazing, or having knowledge of the planning of hazing incidents and failing to report in writing his/her knowledge to the Dean of Students or other appropriate official of the institution.

Failing to report hazing is a Class B misdemeanor, as is hazing that does not result in serious bodily injury. Hazing that results in serious bodily injury is a Class A misdemeanor. Hazing resulting in death is a state jail felony. An organization found guilty of hazing may be fined $5,000 to $10,000 or, for an incident causing personal injury or property damage, an amount double the loss or expenses incurred because of the hazing incident.

It is not a defense to prosecution that the person hazed consented to the hazing activity.

Any person reporting a specific hazing incident to the Dean of Students or other appropriate institutional official is immune from civil and criminal liability unless the report is in bad faith or malicious.

This state law does not limit or affect an educational institution's right to enforce its own penalties against hazing.

E. Student Travel Rule

1. Overview

Texas A&M University-Corpus Christi is supportive of student travel and recognizes that the safety of its students is of the utmost importance. The requirements outlined below apply to student travel that is more than 25 miles from campus to an activity that is organized, sponsored and/or funded by the University or by an organization properly registered at the University. Students traveling on behalf of the University must obtain prior approval from the appropriate department. This rule applies to travel by car, truck, van, bus and airplane. It must be read in conjunction with University Procedure 13.04.99.C1.01, Student Travel Procedures.

2. Travel Safety Guidelines

During travel situations specified above, students must abide by the following safety guidelines.

1. Drivers and passengers must abide by all federal and state laws. In accordance with State law, drivers and passengers must use seat belts or other available safety restraints.
2. Drivers must possess a valid driver's license that is appropriate for the classification of vehicle being driven.
3. Drivers, occupants, and their luggage should not exceed the vehicle manufacturer's recommended capacity.
4. Operator fatigue should be considered when selecting drivers. On lengthy trips, alternate drivers should be used to avoid fatigue.

3. Vehicle Options

Listed below are the basic means of travel available to students:

1. Rental Vehicles: Students traveling using a rental vehicle must comply and abide with all University and rental provider rules, regulations, and stipulations.
2. Vans: Fifteen (15) passenger vans may be used; however, only nine occupants, including the driver, may ride in the van. Nothing may be loaded on top of the van, and all cargo should be loaded evenly. Cargo limit must meet safety requirements. It is preferred that a University employee drive the van.
3. Personal Vehicles: The driver must have adequate motor vehicle insurance and the vehicle must meet all state safety and registration requirements.
4. Commercial Carrier (airplane, bus, train, etc.) Students traveling by commercial transportation must comply with all rules specific to the carrier. This includes laws and regulations regarding carry-on luggage and weight restrictions.

4. Additional Standards

This rule is considered to be a minimum standard. Departments, units, and/or student organizations may mandate additional standards as deemed necessary to address the unique requirements associated with a particular type of student travel.

Archived Catalogs

09-10 Undergraduate Catalog PDF

09-10 Graduate Catalog PDF

10-11 Undergraduate Catalog PDF

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11-12 Undergraduate Catalog PDF

11-12 Graduate Catalog PDF

Music Degree Programs

Texas A&M University-Corpus Christi offers three distinct degree programs, a minor in music, and a minor in music industry.

Music, BA

Music, BM with EC-12 Teacher Certification

Performance (Instrumental), BM

Performance (Voice), BM

The mission of the Texas A&M University-Corpus Christi Department of Music is to assist students in the development of their aural, aesthetic, and analytical capacities in music. This mission is accomplished within a nurturing, student-centered environment where faculty and students strive together for attainment of the following program goals:

1. To prepare music majors for successful professional careers in music education, studio teaching, music industry, and performance;
2. To provide music courses for all students that will acquaint them with fundamental music skills, various musical styles, historical periods and literature, the functions of music in the community, and to provide opportunities to participate in the live performance of music;
3. To encourage students to be continually aware of music as an art form, and to seek opportunities for creative experiences and personal enrichment that are inherent in the study, performance, and production of music; and
4. To contribute to the artistic and cultural life of the community by providing public concerts and recitals, and other forms of appropriate musical involvement of faculty and students.

Texas A&M University-Corpus Christi is an accredited institutional member of the National Association of Schools of Music.

Music Courses Designed Specifically for Non-Majors

Music course offerings of special interest to students majoring in fields outside music include various kinds of ensemble experience; MUSI 1302 - Non-major Class Piano I, MUSI 1303 - Basic Guitar I, MUSI 1306 - Understanding and Enjoying Music, MUSI 1310 - History of Rock and Roll, MUSI 3310 - History of Jazz, MUSI 2302 - Non-major Class Piano II, MUSI 2303 - Basic Guitar II, MUSI 3334 - Music Cultures of the World, and MUSI 3370 - Class Voice.

Admission to Music Degree Programs

Degree-seeking music majors are expected to perform at increasingly higher levels of technical and artistic performance throughout the course of undergraduate study. Assessment of growth in performance is accomplished at the final examination for each semester of Principal Studio enrollment. This consists of a performance before a jury committee composed of music faculty members. Jury committees are charged with two tasks: first, they recommend an advisory jury grade to each student's studio teacher, and second, they determine if students will pass to the next course in the studio sequence. In order to avoid a situation in which a student attempts the pursuit of a music degree for which there is little or no practical hope of success, the following procedures governing admission to Texas A&M-Corpus Christi music degree programs are closely followed.

All music majors share a common first-year music course enrollment, consisting of Musicianship I and II, Aural Training I and II, Class Piano I and II, First Year Principal Applied Studio I and II, and an appropriate major ensemble. The jury examination for First Year Principal Applied Studio II will serve as an application audition for the Bachelor of Music or Bachelor of Music with Teacher Certification. Jury committees will approve applications based upon the jury performance and recommendation of the student's principal studio instructor. Because the Bachelor of Arts program is more broadly focused and not as dependent upon performance, students who are not accepted into the Bachelor of Music or Bachelor of Music with Teacher Certification programs may continue with the BA. Transfer students who have completed two or more semesters of principal studio at another institution should audition for admission to the BM or BMTC degrees at auditions held during the first week of classes each semester for that purpose. Students may attempt to qualify for the Bachelor of Music or the Bachelor of Music with Teacher Certification program only twice.

Ensemble Participation and Requirements

1. Every full-time music major must enroll, participate and receive a passing grade in a major ensemble every semester except the student teaching semester.

2. Major ensemble requirements must be satisfied in the following ways:
    a. A student in any instrumental music degree program whose major instrument is a woodwind, brass, or percussion instrument must register for MUEN 1123 - Symphonic Winds and/or MUEN 1124 - Concert Orchestra as assigned by the instrumental ensemble directors and the applied teacher, based on auditions as required.
    b. A student in any instrumental music degree program whose major instrument is an orchestral stringed instrument must register for MUEN 1124 - Concert Orchestra.
    c. A student in any vocal/choral/general music degree program must register for MUEN 1151 - University Singers as assigned by the choral ensemble director and the applied music teacher, based on auditions as required.
    d. Pianists or guitarists in instrumental music degree normally enroll in MUEN 1151 - University Singers to fulfill the ensemble requirement. If they play a wind band or orchestral instrument well enough, they may enroll in concert band or orchestra instead.
3. Exceptions to these policies will be made only with the approval of the student's applied teacher, the Department Chair and the appropriate ensemble director.