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Texas A&M University-Corpus Christi

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ACCREDITATION

Texas A&M University-Corpus Christi is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, master’s, 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 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.
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General Information

ACADEMIC CALENDAR, 2009-2010

Fall Semester 2009
August 20, Thursday  New Faculty Orientation
August 24, Monday  Faculty Meeting
August 26, Wednesday  Classes begin
September 2, Monday  Labor Day Holiday
September 7, Thursday  Last day to late register or add a class
November 6, Friday  Last day to drop a class
November 26-27, Thursday-Friday  Thanksgiving Holidays
December 7, Monday  Last day to withdraw from the University
December 8, Tuesday  Last day of classes
December 9, Wednesday  Last day to apply for May 2009 graduation
December 10-11, Thursday-Friday; 15-17, Monday-Wednesday  Reading Day
December 14-16, Thursday-Friday  Final examinations
December 19, Saturday  Grading days

Spring Semester 2010
January 11, Monday  Faculty Meeting
January 13, Wednesday  Classes begin
January 18, Monday  Martin Luther King, Jr. Holiday
January 21, Thursday  Last day to register or add a class
March 15-19, Monday-Friday  Spring Break
April 2, Friday  Last day to drop a class
May 3, Monday  Last day to withdraw from the University
May 4, Tuesday  Last day of classes
May 5, Wednesday  Last day to apply for August 2009 graduation
May 6-7, Thursday-Friday; 11-13, Monday-Wednesday  Reading Day
May 13-14, Thursday-Friday  Final examinations
May 15, Saturday  Grading days

Maymester 2010*
May 13, Thursday  Maymester registration & first day of classes
May 27, Thursday  Last day of Maymester
May 28, Friday  Maymester final examinations
May 31, Monday  Memorial Day Holiday
**Summer Session I 2010**

June 1, Tuesday  
Classes begin
June 2, Wednesday  
Last day to register or add a class
June 18, Friday  
Last day to drop a class
June 30, Wednesday  
Last day to withdraw from the University
July 2, Friday  
Last day to withdraw from the University

**Summer Session II 2010**

July 4, Sunday  
Independence Day
July 5, Monday  
Classes begin
July 6, Tuesday  
Last day to register or add a class
July 23, Friday  
Last day to drop a class
August 3, Tuesday  
Last day to withdraw from the University
August 5, Thursday  
Last day to withdraw from the University

August 7, Saturday  
Summer Session I final examinations

*Some summer session courses will follow a different schedule. Please see the class schedule for information on when particular courses are offered.*

Note: Dates of holidays are tentative, pending approval by The Texas A&M University System Board of Regents. For the latest information on dates and deadlines, please consult the appropriate class schedule.
Directory of Campus Offices and Services

**Undergraduate Admission**
Office of Admissions and Records
Student Services Center (SSC) 100   (361) 825-2624

**New Student Programs; Orientation**
Office of New Student Programs
Student Services Center (SSC) 205   (361) 825-6051

**Financial Assistance**
Office of Financial Assistance
Student Services Center (SSC) 115   (361) 825-2338

**Academic Advising**
Academic Advising Transition Center
Student Services Center (SSC) 214   (361) 825-5931

**Student Services**
Office of Student Affairs
University Center (UC) 318   (361) 825-2612

**Dean of Students**
University Center (UC) 318   (361) 825-2612

**Disability Services**
Driftwood Hall 101   (361) 825-5816

**Career Services**
University Center (UC) 304   (361) 825-2628

**Office of International Education**
University Center (UC) 303B   (361) 825-3922

**Student Housing**
University Center (UC) 318   (361) 825-2612

**Recreational Sports**
Field House 104   (361) 825-2454

**University Counseling Center**
Driftwood Hall 106   (361) 825-2703

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

**University Health Center**
Sandpiper Hall 105   (361) 825-2601

**Women’s Center**
University Center (UC) 303   (361) 825-2792
Directory of Campus Offices

Academic Testing
Office of Academic Testing
Student Services Center (SSC) 210   (361) 825-2334

Core Curriculum/First-Year Programs
University Core Curriculum/
First-Year Programs Office
Faculty Center (FC) 253    (361) 825-2150

Library Services
Mary and Jeff Bell Library   (361) 825-2643

Tutoring
Tutoring and Learning Center
Bell Library 216       (361) 825-5933

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

Tuition and Fees
Business Office
Student Services Center (SSC) – 1st floor   (361) 825-2600

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 approximately 9,000 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 devoted to discovering, communicating, and applying knowledge in a complex and changing world. The University identifies, attracts, and graduates students of high potential, especially those from groups who have been historically under-represented in Texas higher education. Through a commitment to excellence in teaching, research, and service, Texas A&M University-Corpus Christi prepares students for lifelong learning and for responsible participation in the global community.

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.

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.

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 1.1 million 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 thousands of electronic journals, newspapers, and other library resources. 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.

Other specialized collections include the State Adopted Textbook Collection, which includes curriculum guides and serves as a laboratory facility for students in the teacher education program. 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 located housed in the Carlos F. Truan Natural Resources Center, as is the Office of Graduate Studies and Research.

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. The adjacent Math and Science Resource Center 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.
### Degrees, Certification and Pre-Professional Programs

#### DEGREE PROGRAMS

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<td>English</td>
<td>BA</td>
<td>MA</td>
<td>LA</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>BS</td>
<td>MS</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Fisheries and Mariculture**</td>
<td>—</td>
<td>MS</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Finance</td>
<td>BBA</td>
<td>—</td>
<td>BUS</td>
</tr>
<tr>
<td>Geographic Information Science</td>
<td>BS</td>
<td>—</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Geology</td>
<td>BS</td>
<td>—</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Geospatial Surveying Engineering</td>
<td>—</td>
<td>MS</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>BSHS</td>
<td>—</td>
<td>N&amp;HS</td>
</tr>
<tr>
<td>History</td>
<td>BA</td>
<td>MA</td>
<td>LA</td>
</tr>
<tr>
<td>Interdisciplinary Studies (Teacher Education)</td>
<td>BSIS</td>
<td>—</td>
<td>EDU</td>
</tr>
<tr>
<td>Interdisciplinary Study</td>
<td>—</td>
<td>MA</td>
<td>LA</td>
</tr>
<tr>
<td>Kinesiology</td>
<td>BS</td>
<td>MS</td>
<td>EDU</td>
</tr>
<tr>
<td>Management</td>
<td>BBA</td>
<td>—</td>
<td>BUS</td>
</tr>
<tr>
<td>Management Information</td>
<td>—</td>
<td>MS</td>
<td>EDU</td>
</tr>
<tr>
<td>Systems</td>
<td>BBA</td>
<td>—</td>
<td>BUS</td>
</tr>
</tbody>
</table>
### Degrees, Certification and Pre-Professional Programs

<table>
<thead>
<tr>
<th>Academic Area</th>
<th>Undergraduate Degree</th>
<th>Graduate Degree</th>
<th>College*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Biology</td>
<td>—</td>
<td>MS</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Marketing</td>
<td>BBA</td>
<td>—</td>
<td>BUS</td>
</tr>
<tr>
<td>Mathematics</td>
<td>BS</td>
<td>MS</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technology</td>
<td>BS</td>
<td>—</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Music</td>
<td>BA, BM</td>
<td></td>
<td>LA</td>
</tr>
<tr>
<td>Nursing</td>
<td>BSN</td>
<td>MSN</td>
<td>N&amp;HS</td>
</tr>
<tr>
<td>Political Science</td>
<td>BA</td>
<td>—</td>
<td>LA</td>
</tr>
<tr>
<td>Psychology</td>
<td>BA</td>
<td>MA</td>
<td>LA</td>
</tr>
<tr>
<td>Public Administration</td>
<td>—</td>
<td>MPA</td>
<td>LA</td>
</tr>
<tr>
<td>Reading</td>
<td>—</td>
<td>MS</td>
<td>EDU</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>—</td>
<td>MS</td>
<td>EDU</td>
</tr>
<tr>
<td>Sociology</td>
<td>BA</td>
<td>—</td>
<td>LA</td>
</tr>
<tr>
<td>Spanish</td>
<td>BA</td>
<td>—</td>
<td>LA</td>
</tr>
<tr>
<td>Special Education</td>
<td>—</td>
<td>MS</td>
<td>EDU</td>
</tr>
<tr>
<td>Theatre</td>
<td>BA</td>
<td>—</td>
<td>LA</td>
</tr>
</tbody>
</table>

### Pre-Professional Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>College*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-law</td>
<td>LA</td>
</tr>
<tr>
<td>Pre-dental, pre-medical, pre-optometry, pre-veterinary medicine</td>
<td>S&amp;T</td>
</tr>
</tbody>
</table>

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 Technology: S&T

** Name change pending approval
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 Technology.

<table>
<thead>
<tr>
<th>Certification</th>
<th>Related Undergraduate Major</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Childhood (EC) to Grade 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Generalist</td>
<td>Interdisciplinary Studies</td>
<td>EDU</td>
</tr>
<tr>
<td>with Early Childhood Specialization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Generalist</td>
<td>Interdisciplinary Studies</td>
<td>EDU</td>
</tr>
<tr>
<td>with Reading Specialization</td>
<td>Interdisciplinary Studies</td>
<td>EDU</td>
</tr>
<tr>
<td>Bilingual Generalist</td>
<td>Interdisciplinary Studies</td>
<td>EDU</td>
</tr>
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</table>

**Grades 4–8**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Major</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Arts and Reading</td>
<td>English</td>
<td>LA</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Interdisciplinary Studies</td>
<td>EDU</td>
</tr>
<tr>
<td>Science</td>
<td>Environmental Science</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Social Studies</td>
<td>History</td>
<td>LA</td>
</tr>
</tbody>
</table>

**Grades 8–12**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Major</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science</td>
<td>Computer Science</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>English Language Arts and Reading</td>
<td>English</td>
<td>LA</td>
</tr>
<tr>
<td>Health Science Technology Education</td>
<td>Occupational Training and</td>
<td>EDU</td>
</tr>
<tr>
<td></td>
<td>Development</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td>History</td>
<td>LA</td>
</tr>
<tr>
<td>Life Science</td>
<td>Biology</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Mathematics</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Physical Science</td>
<td>Chemistry</td>
<td>S&amp;T</td>
</tr>
<tr>
<td>Social Studies</td>
<td>History</td>
<td>LA</td>
</tr>
<tr>
<td>Speech</td>
<td>Communication</td>
<td>LA</td>
</tr>
<tr>
<td>Trade and Industrial Education</td>
<td>Occupational Training and</td>
<td>EDU</td>
</tr>
<tr>
<td></td>
<td>Development</td>
<td></td>
</tr>
</tbody>
</table>

**Early Childhood (EC) to Grade 12**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Major</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td></td>
<td>LA</td>
</tr>
<tr>
<td>Music</td>
<td></td>
<td>LA</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Kinesiology</td>
<td>EDU</td>
</tr>
<tr>
<td>Spanish</td>
<td>Spanish</td>
<td>LA</td>
</tr>
<tr>
<td>Special Education</td>
<td>Interdisciplinary Studies</td>
<td>EDU</td>
</tr>
<tr>
<td>Theatre</td>
<td></td>
<td>LA</td>
</tr>
</tbody>
</table>

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

Texas A&M University-Corpus Christi considers itself to be an agent 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 seven 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

These categories and their associated requirements are described below.

Applications to Texas A&M University-Corpus Christi through any of the seven 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 an application fee of $25. 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.

Applicants who are not U.S. citizens are considered through International Admission. For international applicants, the nonrefundable application fee is $50.00, paid in U.S. currency.

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 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 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.

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 complete the Recommended High School Program, the Distinguished Achievement Program, or the Texas Scholars Program fulfill the academic preparation requirement.

The units of study and acceptable high school courses are:

- **English**: 4 Credits;
- **Laboratory Science**: 3 Credits, at least 1 of which must be in Biology, Chemistry, or Physics;
- **Mathematics**: 3 Credits at the level of Algebra I or higher, which may include Plane Geometry;
- **Social Studies**: 3 Credits;
- **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 are admitted...
without minimum SAT or ACT score requirements. Such students, however, are encouraged to have scores on either the SAT or ACT submitted to the Office of Admissions.

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

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

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:

<table>
<thead>
<tr>
<th>GED Score</th>
<th>SAT Total/Verbal</th>
<th>ACT Composite/English</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 58</td>
<td>900/480</td>
<td>19/19</td>
</tr>
<tr>
<td>51 - 57</td>
<td>1,000/480</td>
<td>22/19</td>
</tr>
<tr>
<td>45 - 50</td>
<td>1,100/480</td>
<td>23/19</td>
</tr>
</tbody>
</table>

**Freshman Admission Deadlines**

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 deadlines:

- Fall Semester - July 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 subject to available space.

**ALTERNATIVE ADMISSION FOR FRESHMEN**

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.

**EXCEPTIONAL TALENT POLICY**

Admission based upon exceptional talent provides an important pathway to higher education for students who do not meet normal 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/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/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/her potential to graduate in a timely manner and to complete successfully his/her academic career. 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 FRESHMEN

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.

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 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 hours of credit must have a 2.0 GPA 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.

NOTE: The University requires 6 hours of credit in the same foreign language or in American
Sign Language for graduation. This requirement may also be met with 2 credits in the same foreign language from high school. If this requirement was met in high school, an official high school transcript must be submitted to the Office of Admissions.

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 Deadlines
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 deadlines:

- Fall Semester - August 15
- Spring Semester - December 15
- Summer Session - May 15

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 a ApplyTexas Application (for Transient Admission) and submit a letter of good standing. 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.)

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 $50 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 unless they have already earned an associate’s degree from an accredited institution in the United States. A minimum score of 550 on the TOEFL paper examination, 79-80 on the TOEFL internet examination, or 213 on the TOEFL computer 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.

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 requires 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 is 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 Admissions.

   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 Texas higher Education Coordinating Board recognized institution may be admitted with the approval of the Office of Admissions.

International Admission Deadlines

   The completed ApplyTexas Application for admission of international students and all required documents and supporting material must be on file by the following deadlines:
   - Fall Semester - May 1
   - Spring Semester - September 1
   - Summer Session - February 1

International Student Advising

   The Coordinator, International Student Admissions, located in the Office of Admissions, 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 Admissions at the beginning of each semester to maintain accurate status and essential information. The Coordinator, International Student Admissions 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 Office of Admissions in the Student Services Center.

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.

**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 a **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 $25 application fee, which is nonrefundable.
3. Official transcripts documenting all course work taken at Texas Higher Education Coordinating Board recognized institutions attended. Official transcripts must be sent directly to Texas A&M University-Corpus Christi from the granting institutions.

**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;
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 Provost.

High school seniors admitted under this program may enroll in a maximum of one class per semester and must be advised by the Academic Advising Transition Center. The Provost 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.

**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 admis-
sion, 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 Tutoring and Learning Center. Students may contact an Intervention Specialist at 361-825-2977 or go by their office (Library 218 A-1). 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 Texas 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.
**Admission**

*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 Tutoring and Learning Center 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 course work 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**

International students are required prior to the first day of classes or move-in to campus housing, whichever occurs first, to provide documentation from a U.S. health care provider of a negative TB skin test (Mantoux tuberculin test) or negative chest X-ray. The report should be submitted directly to the University Health Center. In accordance with the guidelines from the Center for Disease Control, USA, a skin test is required even if the student has had a BCG (Bacille Calmette-Guerin) vaccine. A chest x-ray is recommended for persons with a history of positive TB skin tests.

Students in nursing, the clinical laboratory science track in biomedical sciences, and education programs must meet specific immunization requirements. Information about the requirements may be obtained from the appropriate departments.

**INFORMATION ON BACTERIAL MENINGITIS**

State law requires all public institutions of higher education in Texas to notify all new students about bacterial meningitis (Chapter 51, Education Code, Section 51.9191; Chapter 38, Education Code, Section 38.0025). All students are required to confirm receipt of this information. The requirement can be completed online at www.tamucc.edu/~hsweb. Failure to meet the requirement will result in a registration hold. The vaccine is not required but strongly recommended.

**GRADUATE ADMISSION**

For information on graduate admission requirements, see the Graduate Catalog.
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 Texas Higher Education Coordinating Board recognized 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 University Registrar 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 University Registrar determine that a student has taken courses of similar level and content at more than one institution (duplicated work), the grade of the second 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 the University Registrar is responsible for the evaluation of undergraduate transfer credit. The Office of the University Registrar 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 University Registrar.)

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, please contact the SMART Operations Center at (877) 253-7122. The mailing address for SMART Operations is:
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 please 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 web-site at: http://www.maxwell.af.mil/au/ccaf/.

4) Coast Guard: To order a copy of the official U.S. Coast Guard transcript, please log on to the Coast Guard web site at: http://www.useg.mil/useg.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.

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 University Registrar. 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 University Registrar. 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 six-month period.
However, a student may petition for a waiver of that policy. The request for petition should be submitted on behalf of the student from the college dean that represents the subject area. In addition, the student must submit his or her own letter with the dean’s letter. CLEP will review the petition on a case-by-case basis, and if approved, would allow a student to retest after a 3-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 cancelled 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 within a 180-day period.

<table>
<thead>
<tr>
<th>CLEP Exam Hours</th>
<th>Minimum Score Required</th>
<th>A&amp;M-Corpus Christi Courses(s)</th>
<th>Credit Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition and Literature:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Literature* (essay required)</td>
<td>50</td>
<td>Satisfies the sophomore literature requirement</td>
<td>0/3</td>
</tr>
<tr>
<td>Analyzing and Interpreting Literature (essay required)*</td>
<td>50</td>
<td>Satisfies the sophomore literature requirement</td>
<td>0/3</td>
</tr>
<tr>
<td>English Composition</td>
<td>NA</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>English Literature* (essay required)</td>
<td>50</td>
<td>Satisfies the sophomore literature requirement</td>
<td>0/3</td>
</tr>
<tr>
<td>Freshman College Composition** with required essay</td>
<td>50</td>
<td>ENGL 1301, ENGL 1302</td>
<td>0/3/6</td>
</tr>
<tr>
<td>Humanities</td>
<td>50</td>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Foreign Languages:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>French</td>
<td>50</td>
<td>FREN 1311 &amp; 1312</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>62</td>
<td>FREN 1311, 1312, 2311, &amp; 2312</td>
<td>12</td>
</tr>
<tr>
<td>German</td>
<td>50</td>
<td>GERM 1311 &amp; 1312</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>62</td>
<td>GERM 1311, 1312, 2311, &amp; 2312</td>
<td>12</td>
</tr>
<tr>
<td>Spanish</td>
<td>50</td>
<td>SPAN 1311 &amp; 1312</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>66</td>
<td>SPAN 1311, 1312, 2311, &amp; 2312</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>History &amp; Social Sciences:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government</td>
<td>50</td>
<td>POLS 2305</td>
<td>3</td>
</tr>
<tr>
<td>Human Growth &amp; Development</td>
<td>50</td>
<td>PSYC 2314</td>
<td>3</td>
</tr>
<tr>
<td>Intro to Educational Psychology</td>
<td>N/A</td>
<td>N/A</td>
<td>0</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>50</td>
<td>ECON 2301</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>50</td>
<td>ECON 2302</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>50</td>
<td>PSYC 2301</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Sociology</td>
<td>50</td>
<td>SOCI 1301</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences and History</td>
<td>50</td>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>
### CLEP Exam Hours
<table>
<thead>
<tr>
<th>Minimum Score Required</th>
<th>A&amp;M-Corpus Christi Courses(s)</th>
<th>Credit Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. History I:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Early Colonizations to 1877</td>
<td>HIST 1301</td>
<td>3</td>
</tr>
<tr>
<td>U.S. History II:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1865 to the Present</td>
<td>HIST 1302</td>
<td>3</td>
</tr>
<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td>HIST 2311</td>
<td>3</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>HIST 2312</td>
<td>3</td>
</tr>
<tr>
<td>Science and Mathematics:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus</td>
<td>MATH 2413</td>
<td>4</td>
</tr>
<tr>
<td>College Algebra</td>
<td>MATH 1314</td>
<td>3</td>
</tr>
<tr>
<td>College Mathematics</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>General Biology</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>CHEM 1311, 1312</td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Precalculus</td>
<td>MATH 2312</td>
<td>3</td>
</tr>
<tr>
<td>Business:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Info Systems &amp; Comp Applications</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Business Law</td>
<td>BLAW 3310</td>
<td>3</td>
</tr>
<tr>
<td>Financial Accounting</td>
<td>ACCT 2301</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>Elective Credit</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>MKTG 3310</td>
<td>3</td>
</tr>
</tbody>
</table>

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 or ENGL 2335. For the English Literature exam, the department may award credit for ENGL 2332, ENGL 2333, or ENGL 2334. For the Analyzing and Interpreting Literature exam, the department may award credit for one the following: ENGL 2332, ENGL 2333, ENGL 2334, or ENGL 2335.

** Depending on the quality of the essay, students will be awarded 0, 3, or 6 hours of credit for the Freshman College Composition exam. Credit may be awarded 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.

<table>
<thead>
<tr>
<th>AP Examination Hours</th>
<th>Minimum Score Required</th>
<th>A&amp;M-Corpus Christi Courses(s)</th>
<th>Credit Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>4</td>
<td>ARTS 1303 &amp; 1304</td>
<td>6</td>
</tr>
<tr>
<td>Biology</td>
<td>4</td>
<td>BIOL 1406 &amp; BIOL 1407</td>
<td>8</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3</td>
<td>MATH 2413</td>
<td>4</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>3</td>
<td>MATH 2413</td>
<td>4</td>
</tr>
<tr>
<td>AB subsection of BC Exam</td>
<td>3</td>
<td>MATH 2413</td>
<td>4</td>
</tr>
</tbody>
</table>
## General Academic Policies and Regulations

### AP Examination

<table>
<thead>
<tr>
<th>AP Examination</th>
<th>Minimum Score Required</th>
<th>A&amp;M-Corpus Christi Courses(s)</th>
<th>Credit Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>3</td>
<td>CHEM 1311 &amp; 1111</td>
<td>4</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>4</td>
<td>MATH 2413 &amp; MATH 2414</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry</td>
<td>4</td>
<td>CHEM 1311 &amp; 1111,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHEM 1312 &amp; 1112</td>
<td>8</td>
</tr>
<tr>
<td>Comparative Govt. &amp; Politics</td>
<td>N/A</td>
<td>N/A</td>
<td>0</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>N/A</td>
<td>N/A</td>
<td>0</td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>N/A</td>
<td>N/A</td>
<td>0</td>
</tr>
<tr>
<td>English, Language and Composition</td>
<td>4</td>
<td>ENGL 1301</td>
<td>3</td>
</tr>
<tr>
<td>or English, Literature and Composition</td>
<td>4</td>
<td>ENGL 1301</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>4</td>
<td>ESCI 1401</td>
<td>4</td>
</tr>
<tr>
<td>European History</td>
<td>4</td>
<td>HIST 2311</td>
<td>3</td>
</tr>
<tr>
<td>French Language</td>
<td>3</td>
<td>FREN 1311 &amp; 1312</td>
<td>6</td>
</tr>
<tr>
<td>French Language</td>
<td>5</td>
<td>FREN 1311, 1312, &amp; 2311</td>
<td>9</td>
</tr>
<tr>
<td>French Literature</td>
<td>3</td>
<td>FREN 2312</td>
<td>3</td>
</tr>
<tr>
<td>French Literature</td>
<td>5</td>
<td>FREN 2312, 3306</td>
<td>6</td>
</tr>
<tr>
<td>German Language</td>
<td>3</td>
<td>GERM 1311 &amp; 1312</td>
<td>6</td>
</tr>
<tr>
<td>German Language</td>
<td>5</td>
<td>GERM 1311, 1312, &amp; 2311</td>
<td>9</td>
</tr>
<tr>
<td>Human Geography</td>
<td>3</td>
<td>Elective Credit</td>
<td>3</td>
</tr>
<tr>
<td>Latin Vergil</td>
<td>3</td>
<td>Elective Credit</td>
<td>3</td>
</tr>
<tr>
<td>Latin Literature</td>
<td>5</td>
<td>Elective Credit</td>
<td>6</td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>3</td>
<td>ECON 2301</td>
<td>3</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>4</td>
<td>ECON 2302</td>
<td>3</td>
</tr>
<tr>
<td>Music Theory</td>
<td>4</td>
<td>MUSI 1311 &amp; MUSI 1116</td>
<td>4</td>
</tr>
<tr>
<td>Physics B</td>
<td>4</td>
<td>PHYS 1401 &amp; PHYS 1402</td>
<td>8</td>
</tr>
<tr>
<td>Physics C (Mechanics)</td>
<td>3</td>
<td>PHYS 2425</td>
<td>4</td>
</tr>
<tr>
<td>Physics C (Electricity &amp; Magnetism)</td>
<td>3</td>
<td>PHYS 2426</td>
<td>4</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
<td>PSYC 2301</td>
<td>3</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>3</td>
<td>SPAN 1311 &amp; 1312</td>
<td>6</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>5</td>
<td>SPAN 1311, 1312, &amp; 2311</td>
<td>9</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>3</td>
<td>SPAN 2312</td>
<td>3</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>5</td>
<td>SPAN 2312 &amp; 3306</td>
<td>6</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
<td>MATH 1442</td>
<td>4</td>
</tr>
<tr>
<td>Studio Art: Drawing</td>
<td>4</td>
<td>ARTS 1316</td>
<td>3</td>
</tr>
<tr>
<td>Studio Art: 2-D Design</td>
<td>4</td>
<td>ARTS 1311</td>
<td>3</td>
</tr>
<tr>
<td>Studio Art: 3-D Design</td>
<td>4</td>
<td>ARTS 1312</td>
<td>3</td>
</tr>
<tr>
<td>Studio Art: General Portfolio</td>
<td>4</td>
<td>ARTS 1311</td>
<td>3</td>
</tr>
<tr>
<td>U.S. Govt. &amp; Politics</td>
<td>3</td>
<td>POLS 2305</td>
<td>3</td>
</tr>
<tr>
<td>U.S. History</td>
<td>4</td>
<td>HIST 1301 &amp; 1302</td>
<td>6</td>
</tr>
<tr>
<td>World History</td>
<td>4</td>
<td>HIST 2311</td>
<td>3</td>
</tr>
</tbody>
</table>

### 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 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.

<table>
<thead>
<tr>
<th>DSST Exam</th>
<th>Minimum Score Required</th>
<th>A&amp;M-Corpus Christi Course(s)</th>
<th>Credit Hours Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomy</td>
<td>48</td>
<td>PHYS 1311</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Computing</td>
<td>45</td>
<td>COSC 1315</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Physical Science I</td>
<td>47</td>
<td>SMTE 3315</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Statistics</td>
<td>48</td>
<td>MATH 1442</td>
<td>3</td>
</tr>
</tbody>
</table>

**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 www.tamucc.edu/~atcweb.

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:

<table>
<thead>
<tr>
<th>quarter hours</th>
<th>semester hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.7</td>
</tr>
<tr>
<td>2</td>
<td>1.3</td>
</tr>
<tr>
<td>3</td>
<td>2.0</td>
</tr>
<tr>
<td>4</td>
<td>2.7</td>
</tr>
<tr>
<td>5</td>
<td>3.3</td>
</tr>
<tr>
<td>6</td>
<td>4.0</td>
</tr>
</tbody>
</table>

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/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 4th 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 the University Registrar 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 Academic Advising Transition Center. For more information, call (361) 825-5931 or log on to http://www.tamucc.edu/~aac.

UNIT OF CREDIT

A semester hour is the unit of credit that is defined as the amount of credit given for one class hour a 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:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Semester Credit Hours Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman (or First-Year Student)</td>
<td>fewer than 30</td>
</tr>
<tr>
<td>Sophomore</td>
<td>at least 30, but fewer than 60</td>
</tr>
<tr>
<td>Junior</td>
<td>at least 60, but fewer than 90</td>
</tr>
<tr>
<td>Senior</td>
<td>90 or more</td>
</tr>
</tbody>
</table>

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” section near the end of this catalog.

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 (end of the tenth week of classes in the fall and spring semesters and end of the third week during summer sessions). 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 session. 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/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. 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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Grade Points per Semester Hour*</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Passing</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failure; work not passed</td>
<td>0</td>
</tr>
</tbody>
</table>

[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.

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 (X) 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 825-7245 or 1-877-825-7245.

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 Rule 13.02.99.C2, Student Grade Appeals, 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. Presentation of grievance to instructor. (This step must be taken within fourteen calendar days after the beginning of the next term.)
2. Appeal to department chair or area coordinator.
3. Written appeal to the University Academic Standards Grievance Committee.
4. Preliminary review and advising by an ombudsman appointed by the Provost.
5. Submission of file by department chair to the chair of the University Academic Standards Grievance Committee.
6. Review of file by committee chair and submission of case to committee.
7. Proceedings of the University Academic Standards Grievance Committee. (Committee holds hearing, reviews data, presents findings to all parties, and makes recommendation to Provost.)
8. Decision by Provost.
9. Final appeal in writing to the Provost if student or instructor thinks appropriate procedures have not been followed.

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 Rule 13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules Web site at http://www.tamucc.edu/provost/university_rules/index.htm.

For assistance and/or guidance in the grade appeal process, students may contact the Office of Student 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 by the official Census date of 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.

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/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 chair/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. Admission and matriculation information, including transcripts received from other schools, are also filed in this office.

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 bachelor’s 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/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 20 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, Office of Graduate Studies and Research, 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.
7. To the parents who certify that a student is carried as a dependent for federal income tax purposes.
8. 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.
9. 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 and Fees

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.

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

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 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:
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://falcon.tamucc.edu/~business/default.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
Tuition and Fees

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 4th class day
No refund after 3rd class day

2 ½ 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://www.tamucc.edu/~business/default.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. Consult with the Financial Aid Office about your 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 throw it 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 of up to $277 per semester credit hour may be billed to any student that meets these applicable rules. 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://www.tamucc.edu/~business/default.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://www.tamucc.edu/%7Edmiss/sailweb/index.html.

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://falcon.tamucc.edu/~business/default.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.
The fees listed below are subject to change upon completion of the various approval processes.

**Laboratory Fee**
For each laboratory course a fee is charged in an amount to cover, in general, the cost of laboratory materials and supplies used by a student.

**Supplementary Fees**
Students taking selected courses (e.g., studio art, art education, music, language, and courses requiring field trips) are required to pay supplementary fees each semester. The course schedule or instructor will indicate the amount of a supplementary fee for a particular course.

**Computer Fee**
A general computer fee of $7.00 per semester hour is charged to every student. This fee is used for operation of on and off campus dial-in support, support for on campus ethernet connections, providing access to the WAN via high speed fiber optic backbone, maintaining of campus unix and netware servers, computer helpline for students, and support and monitor Texas A&M College Station internet connection.

**Student Services Fee**
A student services fee of $18.30 per semester hour is charged, up to a maximum of $250.00 per semester. This fee is used for student organizations, government, programs, publications, counseling, placement, tutors, and other student services.

**Athletic Fee**
An athletic fee of $13.23 per semester hour is charged, up to a maximum of $171.99 per semester. This fee is used to fund the athletic program.

**Recreational Sports Fee**
The recreational sports fee is $10.00 per semester hour up to a maximum of $90.00 per semester. This fee is used for recreational sports facilities and programs. All students have use of the gym and other recreational facilities.

**Health Services Fee**
A health services fee of $7.00 per semester hour is charged, up to a maximum of $22.00 per semester. This fee is used to provide Health Center medical and counseling services on campus, which includes nurses, a doctor, and small pharmaceutical needs.

**Student Center Fee**
A flat fee of $45.00 per semester and $22.50 per summer session is charged. This fee covers the building maintenance of the University Center and is also used to assist in paying for the debt service of the University Center.

**Library Fee**
A library fee of $5.50 per semester hour is used for services and acquisition of library material directly related to student use.

**ID Card Maintenance Fee**
A fee of $7.50 per fall/spring semester and $3.75 per summer semester is used to maintain and upgrade the SandDollar$ ID card system. The fee to replace an ID card is $10.00.

**Energy Fee**
An energy fee of $2.00 per semester hour is charged to every student. This fee will be used to cover utilities for educational and general space.

**International Education Fee**
An international education fee of $3.00 per semester is charged to every student. This fee will provide funds to aid in international study abroad opportunities.
International Processing Fee
An international processing fee of $75.00 per semester and $37.50 per summer semester is charged to all international students. This fee will be used to help pay for the costs of processing the applications, transcripts and other special service needs of international students.

Records Maintenance Fee
A records maintenance fee of $5.00 per semester and $2.50 per summer semester is charged to all students. This fee will be used to defray costs of materials and services in maintaining the student’s records, including transcripts.

Student Scholarship Endowment
A student scholarship endowment fee of $1.00 per semester credit hour is charged to all students. This fee will be used to create an endowment fund in which the earnings will be used to fund scholarships and internships.

Liability Insurance
Nursing, Psychology, Kinesiology, Clinical Laboratory Science, and Counseling Graduate Internship students must obtain liability insurance before off-campus practice begins. This liability insurance fee is included in registration bills for each semester enrolled.

Academic Advising Fee
A flat fee of $30.00 per semester and $15.00 per summer semester is charged to provide a comprehensive system of academic advising, which allows students more access to advising/advisors through the establishment of college advising centers. These centers are designed to provide students with better communications, follow-through on transactions and more opportunities for one-on-one advising and mentoring relationships with faculty and professional academic advisors.

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.

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Designated Tuition
Designated Tuition is currently $103.00 per semester hour with a flat rate of $1498.00 at 12 or more semester hours. The fee is used to support institutional expenses.
UNDERGRADUATE STUDENT TUITION FOR 2009-2010

Tuition for Texas residents is $50.00 per semester credit hour for undergraduate classes. Tuition for non-resident U.S. citizens and foreign students is $327.00 per semester credit hour for both long and summer sessions. Tuition is calculated based upon the student’s level (undergraduate or graduate) not the level of the course. Tuition is subject to change as required by law.

HOPE AND LIFETIME LEARNING TAX CREDITS

## FALL 2009 / SPRING 2010

### UNDERGRADUATE STUDENTS

Non-Texas Resident U.S. Citizens and Foreign Students

*Foreign/International Students will be charged an additional $75.00 processing fee per semester*

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## SUMMER 2010

**UNDERGRADUATE STUDENTS - TEXAS RESIDENT**

Foreign/International Students will be charged an additional $37.50 processing fee per semester.

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* These tables were prepared on the basis of the best information available at the time of printing. All information is subject to change pending approval by board of regents or enactment of legislation.

** Flat Fees consist of Student Center, ID Maintenance, Records Maintenance, International Education and Advising Fee. See fee descriptions for the rate of charge, respectively.

and so forth per credit hour beyond 12 hrs.
FALL 2009 / SPRING 2010

UNDERGRADUATE STUDENTS

Non-Texas Resident U.S. Citizens and Foreign Students

Foreign/International Students will be charged an additional $75.00 processing fee per semester

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and so forth per credit hour beyond 21 hrs.
## SUMMER 2010

### UNDERGRADUATE STUDENTS

Non-Texas Resident U.S. Citizens and Foreign Students

Foreign/International Students will be charged an additional $37.50 processing fee per semester

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and so forth per credit hour beyond 12 hrs.

* These tables were prepared on the basis of the best information available at the time of printing. All information is subject to change pending approval by board of regents or enactment of legislation.

** Flat Fees consist of Student Center, ID Maintenance, Records Maintenance, International Education and Advising Fee. See fee descriptions for the rate of charge, respectively.
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, several Federal Family Education 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 April 1 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, 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/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/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/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 is not 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 both the Office of Student Financial Assistance and the Office of Institutional Advancement. The deadline to apply for University scholarships is February 1. Applications will be reviewed and rated on the basis of GPA, transcript, community involvement, essay, resume and other criteria. More information is available at http://scholarships.tamucc.edu/current_students.html.
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 http://scholarships.tamucc.edu/incoming_freshmen.html. 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 http://scholarships.tamucc.edu/apply.html.

**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 visit the Veterans Affair Office.

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

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 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 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, 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.

Undergraduate and Post Baccalaureate Students

Full-time student: 12 hours or more in fall or spring term
Three-quarter-time student: 9 to 11 hours in fall or spring term
Half-time student: 6 to 8 hours in fall or spring term
Less than half-time student: 5 hours or less in fall or spring term
Reimbursement of tuition and fees only
Academic Support Services

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, 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 A&M-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 Academic Advising Transition Center (AATC) located in the Student Services Center (SSC). 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://www.tamucc.edu/~aac.

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://www.tamucc.edu/~atcweb/ or call (361) 825-2334 for other services provided by this office.

TUTORING AND LEARNING CENTER

The Tutoring and Learning Center (TLC) is committed to providing academic support services to help students reach their own educational goals and succeed in the university environment. TLC programs are designed to improve the retention and graduation rates of university students. Students are encouraged to contact the Tutoring and Learning Center, located in Room 216 of the Bell Library, or call (361) 825-5933 for further information.

THEA Academic Advising

The Retention Specialists at the Tutoring and Learning Center coordinate THEA Advising. THEA requirements are discussed in the “Texas Success Initiative” section of the “Admis-
tion” chapter. The mission of TLC is to assist the university by providing academic support programs that ensure that students have every opportunity to be successful in college. Those programs include tutorials, supplemental instruction, and advising and implementing an Individual Success Plan for students in developmental education. For additional information, call the Retention Specialists at (361) 825-2977.

**TLC Services**

The needs of students coming to TLC are thoroughly assessed through tests, individual instructors, and by the TLC Retention Specialists. The center’s primary service is peer tutoring in mathematics, writing, chemistry, Spanish, history, study skills, and most core subjects.

Services are free and available to all A&M-Corpus Christi students. In order to receive tutoring in a subject, a student must be enrolled at A&M-Corpus Christi. TLC operates on a walk-in basis. Students do not need appointments for the writing center, but the writing consultants do encourage students to make appointments when requesting assistance. For more information, please call (361) 825-5933 or visit the web site at tlc.tamucc.edu.

**PEER MENTORS**

A new program that the TLC implemented Fall 2008 is the Academic Insight Mentor (AIM) program. The AIM program has been designed by the TLC to provide direct mentor-to-student assistance with educational matters. Peer Mentors primarily assist students by providing information, such as suggesting techniques for academic success. Peer Mentors may also assist by providing information regarding the particular resources that are available to students through the university.

**TLC Computer Lab**

The Tutoring and Learning Center’s Computer Lab, which is open to all students, is set up to complement the other services offered by the TLC. Printers and scanners within the lab are available for student use, in addition to an array of applications, tutoring software, class-specific programs, Internet access, as well as access to the University’s other academic resources. For more information, please call (361) 825-5933.

**TLC Supplemental Instruction (SI)**

TLC 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.

**SMARTTHINKING**

In Fall 2008, the TLC provided a new service called SMARTTHINKING. SMARTTHINKING is a web-based tutoring service which covers a variety of subjects. The classes offered include writing, math (basic through Calculus II), accounting, statistics, finances, economics, biology, introductory human anatomy and physiology, physics, chemistry, and Spanish.

**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 A&M-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-campus recruiting and Job Fairs throughout the year targeted at different majors.

• Electronic resume referral service.

• Career Resource Library and 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 web site at at http://career-services.tamucc.edu.

CHANCELLOR’S STUDENT ADVISORY BOARD (CSAB)

The purpose of the Chancellor’s Student Advisory Board of the Texas A&M University System is to provide representation for the students to the Chancellor and Texas A&M 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 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, call Camden Miramar (361) 825-5000.

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 web site 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://judicalaffairs.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 web site at: 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 De-
partment 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. For more information, call (361) 825-2454 or go to http://recsports.tamucc.edu.

**UNIVERSITY CENTER AND STUDENT ACTIVITIES (UCSA)**

The University Center is the “living room” of the university and provides the opportunity for students to meet and socialize either formally or informally. Recognized student organizations are able to reserve meeting space, furniture, and equipment in the University Center. For more information, call (361) 825-5281.

The Student Activities office offers a variety of services that benefit students and develop leadership skills. The office provides support services to over 100 student organizations and a number of special events and activities. Involvement in one or more of the many campus organizations can add an important dimension to the college experience. To learn about a specific organization or how to start a new one, contact the Student Organization Center located in UC 204. For more information call (361) 825-3239 or visit 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 A&M University-Corpus Christi. Student leaders serve as camp counselors, who facilitate activities, discussions, games, and presentations. During Aloha Days, first-year students develop friendships, an awareness of their personal values, and pride in the growing traditions, spirit, and rich heritage of A&M-Corpus Christi. For more information, call (361) 825-2707 or visit http://alohadays.tamucc.edu.

**Campus Activities Board (CAB)**

CAB is responsible for bringing a variety of cultural, educational, social and entertaining 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, & 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) & Multicultural Programs**

A&M-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
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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.

Events are programmed during Black History Month, Disabilities Awareness Month, Gay, Lesbian, Bisexual, Transgender, and 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 A&M-Corpus Christi. This program is designed to give new students personal assistance in transitioning to college life by pairing student advocates with each First Year Seminar class. Mentors provide assistance with study skills, time and money management and getting involved on campus and in the community. For information, call (361) 825-2707 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 student groups. Over 100 student organizations 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 UC 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 A&M-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 A&M 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 enrolled A&M-Corpus Christi students at no additional charge. Counseling center records are kept strictly confidential and all UCC staff respect the confidential nature of counseling sessions. Records are not released without the student’s written permission except under certain legal conditions. UCC staff offer the following services:

Short-term Individual Counseling. Students can meet with a counselor to learn more effective coping and problem-solving skills to address issues which can interfere with being successful in college. 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. Referral services are provided when a student’s need is beyond the role and scope of UCC services.

Personal Skills Center. Personal skills training is focused on helping students to develop leadership abilities, enhance academic skills and performance, improve time management skills, increase self-confidence, and enhance personal relationships.

Group Counseling. Groups provide students with an opportunity to meet in a safe, supportive setting with other students who share similar concerns. UCC staff offer groups on managing stress, developing communications skills, improving relationships, and substance abuse issues.

Programs. The UCC offers many programs throughout the year to promote both physical and emotional health and wellness. Upon request, professional staff will provide workshops, seminars, and skills training programs for student organizations, classes, or departments on campus.

Students may call (361) 825-2703, or visit the University Counseling Center, located in Driftwood Hall, to schedule an appointment. Additional information can be found at http://counseling.tamucc.edu.

UNIVERSITY HEALTH CENTER

The University Health Center, located in Sandpiper Hall, assists students in maintaining optimal health while attending A&M-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 825-5735
- Women’s Health Clinic - Gynecological services
- Men’s Health Clinic
- Administration of allergy shots - Student provides serum from allergist.
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- 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) and 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

It is recommended for all undergraduate students to be current with their immunizations for Tetanus diphtheria (Td), two Measles, Mumps, Rubella (MMR). International students are required to have the previously listed immunizations, and an annual Tuberculosis (TB) skin test (Mantoux tuberculin test) or in case of history of positive TB test, chest x-ray every two years. The Center for Disease Control (CDC) and American College Health Association recommend all freshmen and students living in student housing be immunized for Meningitis. The Tetanus diphtheria (Td), Measles, Mumps, Rubella (MMR), TB testing, Hepatitis A, Hepatitis B, Varicella and Meningitis vaccines are available in the University Health Center for a minimal cost. Specific colleges may have immunization requirements.

Health Insurance

In collaboration with the Texas A&M University System, a private insurance plan is available at special rates to students attending A&M-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 www.tamuinsurance.com.

The University accepts no responsibility for the payment of any student’s medical, surgical or ambulance expenses.

For appointments or more information on health services, call the University Health Center at (361) 825-2601 or check the web page at http://healthcenter.tamucc.edu. The University Health Center is open during regular business hours on Monday through Friday. For information on after-hours care, please refer to the Student Handbook.

WOMEN’S CENTER

The Women’s Center for Education and Service has been helping the women of Texas A&M 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 A&M 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: womenscenter.tamucc.edu.
INTERCOLLEGIATE ATHLETICS

After a 25-year absence from athletic competition, Texas A&M 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 A&M-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, A&M-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. 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 plans and holds social and informative events for the international population at A&M-Corpus Christi. For more information contact the Office of International Education at (361) 825-3922.

Study Abroad is also part of the OIE. As A&M-Corpus Christi moves towards a more global campus, this office seeks to increase the number of students who travel abroad through reciprocal agreements for student and faculty exchanges with educational institutions around the world, and through faculty-led study abroad programs. For information regarding studying abroad contact the Office of International Education at (361) 825-2789.
Alumni Relations Office

The Texas A&M University-Corpus Christi Alumni Association exists to strengthen and promote the interests and welfare of A&M-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 all graduates of this institution while named the University of Corpus Christi, Texas A&I University at Corpus Christi, Corpus Christi State University and Texas A&M University-Corpus Christi as its members. 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, mailings of 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 University Services Center, Room 102B, or go to the Alumni Association’s web site at http://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 A&M 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 A&M-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, business assistance, 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 A&M-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 A&M University System, as well as a wide variety of community service organizations.

Additional information on specific Outreach programs is available at http://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 this 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 this 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 and computer literacy requirements. In addition, all students who enter the University as full-time, first-year students must complete the First-Year Seminar requirement.

University Core Curriculum Requirement

The 45 hour University core curriculum, 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 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 a Texas Higher Education Coordinating Board recognized institution of higher education in Texas, and that core curriculum meets the specified “component area” requirements below, that block of courses may be transferred to this university and substituted for 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 component area requirements:
   - 6 Credit Hours Communication (English Rhetoric/Composition)
   - 3 Credit Hours Mathematics
   - 6 Credit Hours Natural Science
   - 3 Credit Hours Visual and Performing Arts
   - 3 Credit Hours Humanities
   - 6 Credit Hours U.S. History
   - 6 Credit Hours Political Science (U.S. and Texas Government)
   - 3 Credit Hours Social/Behavioral Science
   - 6 Credit Hours Additional courses from the above categories and/or Institutionally Designated Option

3. If a student transfers from a Texas Higher Education Coordinating Board recognized public institution in Texas without having completed a 42 or more semester credit hour core curriculum, A&M-Corpus Christi will accept any completed “component area requirement” of the transferring schools’ core curricula as fulfillment of the equivalent requirement here. (For example, a student who has completed the transferring school’s visual and performing arts core curriculum requirement will be considered to have completed A&M-Corpus Christi’s visual and performing arts core curriculum requirement.)

4. A student who transfers from a Texas Higher Education Coordinating Board recognized 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 the University Registrar will determine the equivalency of those courses to the courses in A&M-Corpus Christi’s core curriculum. The student may be required to satisfy further course requirements in the core curriculum at A&M-Corpus Christi. Core curricula completed at Texas Higher Education Coordinating Board recognized 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 this 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 or AP score equivalent to
one year of college-level foreign language study. If students decide to meet this requirement by taking two semesters at this 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, the College of Liberal Arts “Baccalaureate Degree Requirements” section of the university undergraduate catalog, or their website: http://cla.tamucc.edu/advdegplan.htm#College.

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.

Computer Literacy Requirement

It is essential that all students achieve computer literacy in order to function effectively in our globalized high-tech society. All students at the University are required to develop computer literacy prior to graduation. Each college has programs that include computer literacy as a requirement for graduation which can be satisfied with one or more discipline courses in a degree plan. In the rare case where a degree plan does not include computer literacy within a course or courses, the requirement may be satisfied by the completion of COSC 1315 Computer Literacy. The requirement may also be fulfilled by passing the A&M-Corpus Christi computer literacy test.

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 this 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.

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 not 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/she meets all the requirements.

A student who holds a bachelor’s degree from this 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 this 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, THEA, etc), their high school record, or their previous college level mathematics credits. Students without test scores or math grades in their records, or those hoping for a higher mathematics placement may take a challenge exam. The exam is offered regularly by the Department of Mathematics and Statistics. Call 825-2459 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 7 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 Academic Advising 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 Academic Advising Transition Center to register for more than the maximum course load.

Repetition of a Course

Undergraduate students may repeat courses at this 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 this University in order to replace a grade. A failing grade for a repeated course will not affect credit already earned or subsequently earned for that course. The first time the course is repeated, the initial grade received in the course will remain on the transcript, but only the better of the first two grades will be used to calculate the Texas A&M University-Corpus Christi grade point average. A notation will be placed on the transcript after the course to indicate that it has been repeated. In the case of additional repeats, the second grade and all subsequent grades are included in computing the A&M-Corpus Christi hours attempted, grade points earned, and grade point average. 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 this University, he/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. 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 be graduated summa cum laude with a grade point average of 3.9 or above. A student may be graduated magna cum laude with a grade point average of 3.70 through 3.899. A student may be graduated cum laude with a grade point average of 3.5 through 3.699.

Academic Honors Ceremony

Students may participate in the Academic Honors Ceremony, which is held prior to commencement, if they meet the following requirements: They must be enrolled in the semester or term in which they are scheduled to graduate. If they have not yet completed 45 undergraduate semester credit hours at Texas A&M University-Corpus Christi, as required for graduation with honors, they must be enrolled in enough hours to fulfill the 45-hour requirement by the end of the term. See “Graduation with Honors” above for information on the required grade point averages for summa cum laude, magna cum laude, and cum laude honors. To be recognized at one of these levels at the Academic Honors Ceremony,
students must have earned the appropriate grade point average 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.

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
This 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

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 University core curriculum is a 45-semester-hour program of study that is required of undergraduates to provide them with a foundation for further study and learning. Students will be involved with core curriculum course work through the junior year. (Undergraduate transfer students have several ways of fulfilling the core curriculum requirement. For details, please see “General Education Requirement” in the section entitled “Undergraduate Programs.”)

Each course in the core curriculum has been reviewed and approved on the basis of its potential to contribute to the achievement of the following core goals:

1. To introduce students to the content and methods of a broad range of disciplines (e.g., natural sciences, social sciences, fine arts);
2. To help students develop intellectual skills (including reading, writing, speaking, listening, mathematical competency, and critical thinking) which are essential for learning in various disciplines, and for continued learning in life outside of the University;
3. To provide four perspectives: a) the individual in relation to the larger society and the world, with emphasis on understanding contrasting views; b) the principles and ethics that govern human interaction in society and the production of goods and services; c) the phenomena of the physical world and the relationship of the individual and society to it; d) the relationships among abstract quantities.
4. To help students recognize connections between different disciplines and perspectives.

Achieving the goals listed above prepares students for academic work in the majors, enables them to develop their own goals, values and perspectives, and helps them become reflective, productive citizens.

University Core Curriculum Courses

The core curriculum courses are listed below.

English Composition (6 sem. hrs.)
- ENGL 1301 Composition I*
- ENGL 1302 Composition II*

U. S. History (6 sem. hrs.) **
- HIST 1301 U.S. History to 1865
- HIST 1302 U.S. History Since 1865

Political Science (6 sem. hrs.)
- POLS 2305 United States Government and Politics
- POLS 2306 State and Local Government

Natural Science (6 sem. hrs.) Select two from:
- ASTR 1311 Introduction to Space Science
- BIOL 1406 Biology I
- BIOL 1407 Biology II
- CHEM 1305 Introductory Chemistry
- CHEM 1311 General Chemistry I
- CHEM 1312 General Chemistry II
- ESCI 1401 Environmental Science I: Introduction to Environmental Science
- ESCI 1402 Environmental Science II: Systems and Applications
- GEOL 1403 Physical Geology
- GEOL 1404 Historical Geology
- PHYS 1401 General Physics I
PHYS 1402  General Physics II  
PHYS 2425  University Physics I  
PHYS 2426  University Physics II  

Mathematics (3 sem. hrs.) - Select one from:  
MATH 1314  College Algebra  
MATH 1324  Business Mathematics  
MATH 1325  Business Calculus  
MATH 1442  Statistics for Life  
MATH 1470  Introduction to Modeling  
MATH 2413  Calculus I  

Oral Communication (3 sem. hrs.)  
COMM 1315  Public Speaking  

Economics (3 sem. hrs.) - Select one from:  
ECON 2301  Macroeconomic Principles  
ECON 2302  Microeconomic Principles  

Social Science (3 sem. hrs.) - Select one from:  
PSYC 2301  General Psychology  
SOCI 1301  Human Societies  

Literature (3 sem. hrs.) - 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  Themes and Genres in English Literature  
ENGL 2335  Themes and Genres in the Literatures of the Americas  
SPAN 3307  Spanish Literature I  
SPAN 3308  Spanish Literature II  
SPAN 3309  Spanish American Literature I  
SPAN 3310  Spanish American Literature II  

Fine Arts (3 sem. hrs.) - 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  

Philosophy (3 sem. hrs.)  
PHIL 3340  Foundations of Professional Ethics  

The core curriculum includes 45 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 Texas History (HIST 3331) for either HIST 1301 or HIST 1302. Texas History is a 3000-level course, and is recommended only for juniors and seniors.  

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 less. 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 or UCCP 1102)
English Composition (ENGL 1301 or ENGL 1302)
Human Societies (SOCI 1301)

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

First-Year Seminar (UCCP 1101 or UCCP 1102)
English Composition (ENGL 1301 or ENGL 1302)
U.S. History to 1865 (HIST 1301)
U.S. Government and Politics (POLS 2305)

First-Year Seminar

First-Year Seminar (FYS) immerses students in an active learning environment to help students develop their ability to learn through study, discussion, cooperation, and collaboration. FYS teachers attend the large Triad/Tetrad lecture classes with their students and help their students to explore the interconnections among the Triad/Tetrad courses, develop their critical thinking and information literacy skills, and clarify their personal values and goals. Enrollment in the FYS (as well as in the First-Year Writing classes) is held to a maximum of 25 students because small-class environments help students form learning communities and develop their intellectual skills. First-Year Seminar, therefore, plays a central role in developing the learning communities, and enabling students to be successful at the University level.

Full-time first-year students are required to enroll in a First-Year Seminar during each of their first two semesters. Certain exceptions exist, however, for transfer students and part-time students. 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. However, students must substitute other hours of undergraduate-level coursework in order to meet minimum semester credit hour requirements for graduation.

Transfer Students and the University Core Curriculum Programs

Transfer students may contact a transfer counselor in the Academic Advising Transition Center, located in the Student Services Center, or call (361) 825-2257 or 2258 for general transfer information. Transfer students who have not officially declared an academic major may receive academic advising from the Academic Advising 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 curriculum 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 curriculum requirement. Please see “General Education Requirement” in the section entitled “Undergraduate Programs” for details.

First-Year Seminar Course Descriptions

All course descriptions are located in the section titled “Course Descriptions,” which is located near the back of the catalog. Within that section, First-Year Seminar course descriptions may be found under “University Core Curriculum Programs (UCCP).”
Honors Program

The Honors Program at Texas A&M University-Corpus Christi offers enriched plans of study to highly motivated students who have the ability to excel academically and the desire to develop global perspectives. Consistent with the university’s aspiration to “close the gaps” for those from groups who have been historically under-represented in Texas higher education, the program seeks to attract and retain a broad and diverse population of students. A successful Honors experience requires an exceptional commitment from participating students and faculty. Honors students are challenged with innovative, participatory, and rigorous learning experiences in a community of similarly motivated learners. Faculty members provide both discipline-specific and interdisciplinary instruction as well as facilitate co-curricular and extracurricular opportunities. Faculty members also provide personal mentoring for and collaborative partnerships with their students. Students and faculty have a unique opportunity in the Honors Program for development and recognition of their interests, skills, abilities, and potential.

The goals of the honors program are to

- 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.
- Further faculty commitment to scholarship and instruction.
- Recognize the accomplishments of students and faculty.

ADMISSION

Prospective students are asked to submit a portfolio that includes:

1) A letter of application explaining why the student wishes to be admitted to the honors program, what he/she brings to the program, and what he/she expects from the program. Mention of honors and achievements, of particular skills and capabilities, are appropriate here.

2) The application form.

3) Three letters of recommendation from high school or college teachers, or from others who can speak to the student’s talents, potential, and aspirations.

4) High school and college transcripts.

5) An example of past or present academic work in which the student takes pride. “Academic work” includes literary or artistic projects, original research, or other demonstrations of skills and interests.

6) A 2- to 3-page essay written especially for the honors application portfolio, topic determined by the Honors Program Admissions Committee (see website for more instructions or contact the Director of the Honors Program).

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.

STRUCTURE OF PROGRAM

Professional Honors Track: 21 minimum hrs.

The Professional Honors Track is for students in pre–professional programs, such as Nursing, Education, Sciences, the Performing Arts, and Business. This track emphasizes the Honors experience in the first two years, when all students are in the Core sequence. For the 3rd and 4th years, colleges and programs have flexibility to integrate honors experiences with their existing course of study.
Honors Program

First Year
Honors First-Year Learning Community (7-11 hrs)
One Honors section of core course (3 hrs)

Second Year
Honors PHIL 3340 (3 hrs)
1-2 Honors sections of core course (3-6 hrs)

Third Year and Fourth Year
Third or Fourth Year: at least 3 hours (but no more than 7 hrs) from:
- Research Methods (3 hrs)
- Upper-division Honors seminar (3-4 hrs)
- Service Learning (1-3 hrs)
- Independent Study (3 hrs)
- Internship or Field Experience (3 hrs)

Fourth Year
- Project of Excellence (1 hr)

Total Third and Fourth Years 4-8 hrs

University Honors Track: 29 minimum hours.
The University Honors Track serves students who have more flexible majors and provides students with substantial Honors experiences in all four years.

First Year
Honors First-Year Learning Community (7-11 hrs)
One Honors section of core course (3 hrs)

Second Year
Honors PHIL 3340 (3 hrs)
Two Honors sections of core course (6-8 hrs)

Third Year and Fourth Year
Third or Fourth Year: at least 6 hours (correlated to the individual’s degree plan) from:
- Research Methods (3 hrs)
- Upper-division Honors seminar (3-9 hrs)
- Service Learning (1-3 hrs)
- Independent Study (1-3 hrs)
- Internship or Field Experience (6-8 hrs)

Fourth Year
- Project of Excellence (1 hr)
- Upper-division Honors seminar (3 hrs)

Total Third and Fourth Years at least 10 hours

All Honors courses serve students in both Professional and University tracks.
Honors students majoring in nursing should consult “Criteria for Progression in the Honors Program within the College of Nursing” in the Honors program handbook.

Honors First-Year Learning Community
In their first-year experience, Honors students participate in self-contained learning communities. Honors triads of courses will include:
- First-Year Seminar
- English 1301, 1302
- One discipline course

Honors tetrads of courses will include:
- First-Year Seminar
- English 1301, 1302
- Two discipline courses
Key to this model would be innovative uses of the 7–11 hour block of class time, involving team teaching and interdisciplinary approaches to subject matter.

**Extra Curricular and Co-curricular Activities for Professional and University Tracks**

- Internship: Arrangements with the Hispanic Association of Colleges and Universities (HACU), League of Latin American Citizens (LULAC), U.S. Holocaust Memorial Museum (USHMM), congressional offices, or another institution in Washington DC, with the Harte Research Institute, etc.
- Community service project
- May–mester over spring break, junior or senior year
- Membership in discipline-specific organizations; international and local honors societies
- Conference presentations (National Honors Conference, conferences in the disciplines)
- On–campus symposia, colloquia

**CURRICULUM**

**The Honors Core Experience**

All Honors courses actively engage students in sustained inquiry directed toward complex issues in our local, regional, national, and international communities. Core courses allow students to interact with fellow honors students, work closely with faculty, and pursue original research.

**Upper-Division Courses and Seminars** focus on developing problem-solving abilities and analyzing complex issues from the perspective of several disciplines.

**Independent Studies** consist of student-initiated, independent work with a faculty mentor. Internships and Applied Experience opportunities are also available.

**Cross-listed Courses**

Courses designated with the HONR prefix may be cross listed by two or more disciplines. Such courses may be counted as part of the requirements for both the major and honors program, but may not be repeated under the optional prefix for additional credit.

**Student Honors Portfolio**

As a requirement of the program, honors students are asked to maintain a portfolio of their academic work to be presented during their last semester. The portfolio will be used to assess the achievement and development of each student as well as to assess the Honors Program as a whole. All portfolios will be kept permanently on file in the Honors office.

**Project of Excellence**

A senior capstone experience required of all honors students who graduate from the program. The Project of Excellence will consist of a paper, performance, or presentation of research results typical of professional work in the major field. The project is approved beforehand by the Honors Council and major department in which the student is enrolled, and supervised by an honors faculty member.

**Learning Outcomes**

Honors students will be proficient in:

- collaboratively exploring problems
- weighing evidence
- identifying possible solutions
- interpreting original research data,
- considering issues from multiple perspectives, and
- engaging in metacognitive reflection.
Courses in the Honors Program (HONR)

All course descriptions are located in one section near the back of the catalog.

CONTACT

For further information contact Sharon Talley.
Web site: http://honors.tamucc.edu/
Campus address: CCH 291F; phone: (361) 825-5981
Mailing address: Honors Program
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, TX 78412-5751
E-Mail: sharon.talley@tamucc.edu
College of Business

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 educational needs of business students in the region. Programs are designed to help students advance their education in business to become more productive citizens, further their careers, and pursue advanced studies 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 Master of Accountancy program offers advanced accounting studies. The College promotes a high code of ethics, special concern for student learning, and the effective use of technology.

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 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, 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, and Student Economics Association.

Permanent faculty in each of the academic departments (Accounting and Business Law; Finance, Economics, and Decision Sciences; and Management and 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.

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

**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.**

**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 with courses taken in the fall of 2007, no more than two Ds earned by business majors in business core classes and courses taken in their business major are accepted toward graduation. (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 non-credit WebCT 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. Accordingly, BBA graduates will:

1. Demonstrate the ability to communicate effectively, both orally and in writing.
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.

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

*University Core. ECON 2302 is an option to satisfy the University Core three hour requirement in economics.  
** MATH 2413 (Calculus I) may be taken as substitute for MATH 1325. Only three hours of MATH 2413 will be counted in University Core 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 hrs  
MISY 2305  Computer Applications in Business 3 hrs  
*HIST 1301  U.S. History to 1865  3 hrs  
*ENGL 1301  Composition I  3 hrs  
*POLS 2305  United States Government and Politics 3 hrs  
UCCP 1101  First-Year Seminar I  1 hr  
Select one of these 3 hour courses:  3 hrs  
*COMM 1315  Film and Culture, or  
*ARTS 1301  Art and Society, or  
*MUSI 1306  Understanding and Enjoying Music, or  
*MUSI 1307  Elements of Musical Style, or  
*THEA 1310  The Art of the Theatre  

17 hrs

Freshman - Semester II

*ENGL 1302  Composition II  3 hrs  
*Natural Science requirement  3 - 4 hrs  
*HIST 1302  U.S. History Since 1865  3 hrs  
UCCP 1102  First-Year Seminar II  1 hr  
Select one of these 3 hour courses:  3 hrs  
*PSYC 2301  General Psychology, or  
*SOCI 1301  Human Societies  

13-14 hrs

Sophomore - Semester I

*ECON 2301  Macroeconomics Principles  3 hrs  
ACCT 2301  Financial Accounting  3 hrs  
MATH 1324  Business Mathematics  3 hrs  
*Natural Science Requirement  3-4 hrs  
Select one of these 3 hour courses:  3 hrs  
*ENGL 2332  Literature of the Western World: From the Classics to the Renaissance, or  
*ENGL 2333  Literature of the Western World: From the Enlightenment to the Present, or  
*ENGL 2334  Themes and Genres in English Literatures, or  
*ENGL 2335  Themes and Genres in the Literatures of the Americas, or  
*SPAN 3307  Spanish Literature I, or
*SPAN 3308 Spanish Literature II, or
*SPAN 3309 Spanish American Literature I, or
*SPAN 3310 Spanish American Literature II

**Spanish Literature II, Spanish American Literature I, or Spanish American Literature II**

15-16 hrs

**Sophomore - Semester II**

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

18 hrs

* University Core

** Management Information Systems majors need to take COSC 1435, Introduction to Problem Solving with Computers, 3 hrs, in lieu of the business elective.

**CURRICULUM IN ACCOUNTING**

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), 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 visit the TSBPA website at <http://www.tsbpa.state.tx.us/> frequently 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 and Business Law 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.

**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. PPA students are typically committed to obtaining the Master of Accountancy (MAcc) and to becoming CPAs.
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 University Core 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. Undergraduate PPA students are required to enroll in ACCT 0041, Professional Development Level One, each semester. This course is Web-based and non-credit.

**Graduate Coursework**

PPA students are required to take thirty three 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. Graduate PPA students are required to enroll in ACCT 0051, Professional Development Level Two, each semester. This course is Web-based and non-credit.

**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**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>A. University Core</td>
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<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
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<tr>
<td>C. Business Core</td>
<td>45</td>
</tr>
<tr>
<td>D. Major Requirements</td>
<td>24</td>
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<tr>
<td>E. Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 (122)</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

Full-time, first-year students are required to take the following courses: UCCP 1101/UCCP 1102 First-Year Seminar I, II 2
**Junior – Semester I**

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

**Junior – Semester II**

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

**Senior – Semester I**

- ACCT 3355  Accounting Information Systems  3 hrs
- ACCT Elective  3 hrs
- *PHIL 3340  Foundations of Professional Ethics  3 hrs
- OPSY 4314  Operations Management  3 hrs
- BUSI 4310  International Business **  3 hrs

**Senior – Semester II**

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

*University Core

**Students may substitute any international business course.

**ACCOUNTING MAJOR (PROFESSIONAL PROGRAM)**

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

**Degree Requirements**

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<tr>
<td>F. Graduate Coursework</td>
<td>33</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>153 (155)</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102  First-Year Seminar I, II  2

**Junior - Semester I**

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

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

**Senior - Semester I**
ACCT 3355 Accounting Information Systems 3 hrs
Undergraduate Accounting Elective 3 hrs
*PHIL 3340 Foundations of Professional Ethics 3 hrs
OPSY 4314 Operations Management 3 hrs
BUSI 4310 International Business** 3 hrs
15 hrs

**Senior - Semester II**
ACCT 4311 Auditing Principles and Procedures 3 hrs
BUSI 0088 Major Field Test Review 0 hrs
MGMT 4388 Administrative Policy and Strategy 3 hrs
Undergraduate Accounting Elective 3 hrs
ACCT 5381 Accounting Theory 3 hrs
Graduate Non-accounting Business Elective 3 hrs
15 hrs

**Summer**
ACCT 5355 Information Systems in Accounting 3 hrs
ACCT 5371 Tax Consulting, Planning and Research 3 hrs
Accounting Graduate Elective 3 hrs
9 hrs

**Graduate Semester I**
ACCT 5341 Advanced Auditing and Assurance Services 3 hrs
FINA 5320 Managerial Finance 3 hrs
Accounting Graduate Elective 3 hrs
9 hrs

**Graduate - Semester II**
ACCT 5360 CPA Exam Review*** 3 hrs
ACCT 5351 Strategic Cost Management 3 hrs
***MGMT 5355 Administrative Strategy and Policy**** 3 hrs
9 hrs

* University Core.
** 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.

**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.

**Degree Requirements**

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<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>120 (122)</td>
</tr>
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</table>

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102 First-Year Seminar I, II  2 hrs

**Junior - Semester I**

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

15 hrs

**Junior - Semester II**

- * PHIL 3340 Foundations of Professional Ethics  3 hrs
- MKTG 3310 Principles of Marketing  3 hrs
- MGMT 3312 Behavior in Organizations  3 hrs
- MISY 3310 Management Information Systems Concepts  3 hrs
- ECON 3311 Intermediate Microeconomics  3 hrs
- ECON 3312 Money and Banking  3 hrs

18 hrs

**Senior - Semester I**

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

15 hrs

**Senior - Semester II**

- BUSI 0088 Major Field Test Review  0 hrs
- MGMT 4388 Administrative Policy and Strategy  3 hrs
- 2 Economics electives***  6 hrs
- 3 hrs in Nonbusiness electives  3 hrs
- 12 hrs

* University Core

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

**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.

### Degree Requirements

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*First Year Seminars

First-Year Seminars or Electives

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

- UCCP 1101/UCCP 1102 First-Year Seminar I, II 2

### Junior - Semester I

- PHIL 3340 Foundations of Professional Ethics 3 hrs
- FINA 3310 Financial Management 3 hrs
- FINA 3331 Investments 3 hrs
- ORMS 3310 Data Analysis and Statistics 3 hrs
- BLAW 3310 Legal Environment of Business 3 hrs

15 hrs

### Junior - Semester II

- MGMT 3315 Communicating in Business 3 hrs
- MKTG 3310 Principles of Marketing 3 hrs
- MGMT 3312 Behavior in Organizations 3 hrs
- FINA 3320 Intermediate Corporate Finance 3 hrs
- FINA 4332 Security Analysis and Portfolio Management 3 hrs

15 hrs

### Senior - Semester I

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

15 hrs

### Senior - Semester II

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

Select one of these 3 hour courses:

- Upper-level Finance Elective, or
- Upper-level Economics elective, or
- ACCT 3311 Intermediate Accounting I, or
- ACCT 3314 Cost Accounting, or
ACCT 3316  Governmental and Municipal Accounting, or
ACCT 3321  Federal Income Tax I

*University Core

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.

Degree Requirements

Sem. Hrs.
A. University Core                  45
B. First-Year Seminars (when applicable)*  (2)
C. Business Core                   45
D. Major Requirements              24
E. Electives                       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/UCCP 1102  First-Year Seminar I, II

Junior - Semester I

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

15 hrs

Junior - Semester II

FINA 3310  Financial Management I                         3 hrs
Nonbusiness Elective                                      3 hrs
BLAW 3310  Legal Environment of Business                 3 hrs
Select one of these 3 hour courses:                       3 hrs
   MKTG 3315  Promotional Strategy, or
   MKTG 3345  Sales Management, or
   MKTG 4310  Distribution Systems in Marketing

Select one of these 3 hour courses:                       3 hrs
   ACCT 3311  Intermediate Accounting I, or
   ACCT 3314  Cost Accounting, or
   ACCT 3321  Federal Income Tax I

15 hrs

Senior - Semester I

Select one of these 3 hour courses:                       3 hrs
FINA 3331  Investments, or
FINA 4310  Advanced Financial Management, or
FINA 4321  Financial Markets and Institutions, or
FINA 4332  Security Analysis and Portfolio Management 3 hrs

Select one of these 3 hour courses:
MGMT 3320  Concepts of Human Resource Management, or 3 hrs
MGMT 4320  Leadership and Managerial Effectiveness

*PHIL 3340 Foundations of Professional Ethics 3 hrs
BUSI 4310  International Business** 3 hrs
OPSY 4314  Operations Management 3 hrs

15 hrs

Senior - Semester II

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

15 hrs

*University Core.

**Any other international business course may be substituted.

MANAGEMENT MAJOR WITH THREE EMPHASES:

GENERAL MANAGEMENT, HEALTH CARE, OR
HUMAN RESOURCE MANAGEMENT EMPHASIS

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.

General Management Emphasis

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

Degree Requirements

Sem. Hrs.
A. University Core 45
B. First-Year Seminars (when applicable)* (2)
C. Business Core 45
D. Major Requirements 24
E. Electives 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/UCCP 1102 First-Year Seminar I, II  2

General Management Emphasis

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

Degree Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Business Core</td>
<td>45</td>
</tr>
<tr>
<td>D. Major Requirements</td>
<td>24</td>
</tr>
<tr>
<td>E. Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>120 (122)</td>
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</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102 First-Year Seminar I, II  2

Junior - Semester I

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 3312 Behavior in Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ORMS 3310 Data Analysis and Statistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 3315 Communicating in Business</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MKTG 3310 Principles of Marketing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MISY 3310 Management Information Systems Concepts</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15 hrs</td>
</tr>
</tbody>
</table>

Junior - Semester II

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*PHIL 3340 Foundations of Professional Ethics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 3320 Concepts of Human Resource Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 3310 Financial Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BLAW 3310 Legal Environment of Business</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 3355 Organization Change and Development</td>
<td>3 hrs</td>
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<tr>
<td><strong>Total</strong></td>
<td>15 hrs</td>
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</table>

Senior - Semester I

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPSY 4314 Operations Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 4315 Multinational Management**</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 4320 Leadership and Managerial Effectiveness</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2 MGMT Electives</td>
<td>6 hrs</td>
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<td><strong>Total</strong></td>
<td>15 hrs</td>
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</table>

Senior - Semester II

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 4340 Critical Thinking and Decision Making</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BUSI 0088 Major Field Test Review</td>
<td>0 hrs</td>
</tr>
<tr>
<td>MGMT 4388 Administrative Policy and Strategy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT Elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Upper-level Business Elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Nonbusiness Elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15 hrs</td>
</tr>
</tbody>
</table>

*University Core.

**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.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
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<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Business Core</td>
<td>45</td>
</tr>
<tr>
<td>D. Major Requirements</td>
<td>24</td>
</tr>
<tr>
<td>E. Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 (122)</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars
First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:
UCCP 1101/UCCP 1102 First-Year Seminar I, II

Junior - Semester I

- MGMT 3312 Behavior in Organizations 3 hrs
- ORMS 3310 Data Analysis and Statistics 3 hrs
- MGMT 3315 Communicating in Business 3 hrs
- MKTG 3310 Principles of Marketing 3 hrs
- BLAW 3310 Legal Environment of Business 3 hrs

15 hrs

Junior - Semester II

- MGMT 3320 Concepts of Human Resource Management 3 hrs
- FINA 3310 Financial Management 3 hrs
- Misy 3310 Management Information Systems Concepts 3 hrs
- BLAW 4350 Human Resource Law 3 hrs
- Approved Course in Health Care** 3 hrs

15 hrs

Senior - Semester I

- *PHIL 3340 Foundations of Professional Ethics 3 hrs
- OPSY 4314 Operations Management 3 hrs
- MGMT 4305 Staffing and Development 3 hrs.
- MGMT 4315 Multinational Management*** 3 hrs
- Upper-level Business Elective 3 hrs

15 hrs

Senior - Semester II

- MGMT 4385 Human Resource Planning 3 hrs
- BUSI 0088 Major Field Test Review 0 hrs
- MGMT 4388 Administrative Policy and Strategy 3 hrs
- MGMT Elective 3 hrs
- Approved Electives in Health Care** 6 hrs

15 hrs

*University Core.
**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.
Degree Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
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</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Business Core</td>
<td>45</td>
</tr>
<tr>
<td>D. Major Requirements</td>
<td>24</td>
</tr>
<tr>
<td>E. Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 (122)</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

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

**UCCP 1101/UCCP 1102  First-Year Seminar I, II  2**

**Junior - Semester I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 3312</td>
<td>Behavior in Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 3315</td>
<td>Communicating in Business</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MISY 3310</td>
<td>Management Information Systems Concepts</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MKTG 3310</td>
<td>Principles of Marketing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ORMS 3310</td>
<td>Data Analysis and Statistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15 hrs</strong></td>
</tr>
</tbody>
</table>

**Junior - Semester II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>*PHIL 3340</td>
<td>Foundations of Professional Ethics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BLAW 3310</td>
<td>Legal Environment of Business</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 3310</td>
<td>Financial Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 3320</td>
<td>Concepts of Human Resource Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT Elective</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15 hrs</strong></td>
</tr>
</tbody>
</table>

**Senior - Semester I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 4305</td>
<td>Staffing and Development</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 4315</td>
<td>Multinational Management**</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 4335</td>
<td>Compensation and Appraisal Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>OPSY 4314</td>
<td>Operations Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>Upper-level business elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15 hrs</strong></td>
</tr>
</tbody>
</table>

**Senior - Semester II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLAW 4350</td>
<td>Human Resource Law</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 4385</td>
<td>Human Resource Planning</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BUSI 0088</td>
<td>Major Field Test Review</td>
<td>0 hrs</td>
</tr>
<tr>
<td>MGMT 4388</td>
<td>Administrative Policy and Strategy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT Elective</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>Nonbusiness Elective</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15 hrs</strong></td>
</tr>
</tbody>
</table>

* University Core.

**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. Management Information Systems majors must take COSC 1435, Introduction to Problem Solving with Computers, 3 hrs., instead of a business elective during their sophomore year.

Degree Requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Business Core</td>
<td>45</td>
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<tr>
<td>D. Major Requirements</td>
<td>24</td>
</tr>
<tr>
<td>E. Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>120 (122)</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

- UCCP 1101/UCCP 1102 First-Year Seminar I, II 2 hrs.

**Junior - Semester I**

- MISY 3310 Management Information Systems Concepts 3 hrs
- ORMS 3310 Data Analysis and Statistics 3 hrs
- MGMT 3315 Communicating in Business 3 hrs
- MKTG 3310 Principles of Marketing 3 hrs
- MISY 3350 Business Applications Development 3 hrs

**Junior - Semester II**

- FINA 3310 Financial Management 3 hrs
- MISY 3320 Business Data Communications I 3 hrs
- MISY 3330 Database Management 3 hrs
- MGMT 3312 Behavior in Organizations 3 hrs
- BLAW 3310 Legal Environment of Business 3 hrs

**Senior - Semester I**

- BUSI 4310 International Business** 3 hrs
- OPSY 4314 Operations Management 3 hrs
- MISY 3340 Systems Analysis and Design 3 hrs
- Senior-level MISY Elective 3 hrs
- * PHIL 3340 Foundations of Professional Ethics 3 hrs

**Senior - Semester II**

- BUSI 0088 Major Field Test Review 0 hrs
- MGMT 4388 Administrative Policy and Strategy 3 hrs
- MISY 4330 Website Development 3 hrs
- MISY 4390 Topics (IT Project Management) 3 hrs
- Business Elective 3 hrs
- *Nonbusiness elective 3 hrs

*University Core.

**Any international business course may be substituted.
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.

Degree Requirements

<table>
<thead>
<tr>
<th>A. University Core</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Business Core</td>
<td>45</td>
</tr>
<tr>
<td>D. Major Requirements</td>
<td>24</td>
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<td>E. Electives</td>
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</tr>
<tr>
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<td><strong>120 (122)</strong></td>
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</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102 First-Year Seminar I, II  2 hrs

Junior - Semester I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 3312</td>
<td>Behavior in Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ORMS 3310</td>
<td>Data Analysis and Statistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 3315</td>
<td>Communicating in Business</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MKTG 3310</td>
<td>Principles of Marketing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BLAW 3310</td>
<td>Legal Environment of Business</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15 hrs</strong></td>
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Junior - Semester II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 3310</td>
<td>Financial Management I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MISY 3310</td>
<td>Management Information Systems Concepts</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Marketing Elective</td>
<td>3 hrs</td>
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<tr>
<td>Select one of these 3 hour courses:</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>MKTG 3315</td>
<td>Promotional Strategy, or</td>
<td></td>
</tr>
<tr>
<td>MKTG 4310</td>
<td>Distribution Systems in Marketing, or</td>
<td></td>
</tr>
<tr>
<td>MKTG 4340</td>
<td>International Marketing</td>
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</tr>
<tr>
<td>MKTG Elective</td>
<td>3 hrs</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15 hrs</strong></td>
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</tbody>
</table>

Senior - Semester I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>*PHIL 3340</td>
<td>Foundations of Professional Ethics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MKTG 4320</td>
<td>Marketing Research</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Marketing Elective</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>BUSI 4310</td>
<td>International Business**</td>
<td>3 hrs</td>
</tr>
<tr>
<td>OPSY 4314</td>
<td>Operations Management</td>
<td>3 hrs</td>
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<td></td>
<td><strong>Total</strong></td>
<td><strong>15 hrs</strong></td>
</tr>
</tbody>
</table>
Senior - Semester II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 4350</td>
<td>Marketing Problems and Policies</td>
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<td>Marketing Elective</td>
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</tr>
<tr>
<td>BUSI 0088</td>
<td>Major Field Test Review</td>
<td>0 hrs</td>
</tr>
<tr>
<td>MGMT 4388</td>
<td>Administrative Policy and Strategy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Nonbusiness Elective</td>
<td>3 hrs</td>
<td></td>
</tr>
</tbody>
</table>

15 hrs

* University Core.

**Another College of Business international or upper level course may be used as a substitute with the approval of the department chair.

MINORS

Minor in Accounting (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*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2301</td>
<td>Financial Accounting</td>
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<tr>
<td>ACCT 2302</td>
<td>Managerial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCT 3311</td>
<td>Intermediate Accounting I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCT 3312</td>
<td>Intermediate Accounting II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCT 3314</td>
<td>Cost Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCT 3321</td>
<td>Federal Income Tax I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Total 18 hrs

*Courses may not be applied to both a major and a minor. See course descriptions for prerequisites.

Minor in Business Administration (For Nonbusiness Majors)

The minor is designed to provide a foundation of business knowledge for persons who want to complement a nonbusiness bachelor’s program with a planned business program. Persons 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*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2301</td>
<td>Financial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCT 2302</td>
<td>Managerial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 3310</td>
<td>Financial Management I** or any other upper-level FINA class</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGMT 3312</td>
<td>Behavior in Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MKTG 3310</td>
<td>Principles of Marketing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BLAW 3310</td>
<td>Legal Environment of Business***</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Total 18 hrs

* 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.
Minor in Economics (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 hrs

**ECON 2302** Microeconomics Principles 3 hrs

Either **ECON 3310** Intermediate Macroeconomics, or

**ECON 3311** Intermediate Microeconomics 3 hrs

Electives: select 3 of the following courses (if not already taken as required courses)

**ECON 3310** Intermediate Macroeconomics 9 hrs

**ECON 3311** Intermediate Microeconomics

**ECON 3315** International Economic Issues

**ECON 3312** Money and Banking

**ECON 3316** Environmental Economics

**ECON 3320** Public Finance

**ECON 3322** Managerial Economics

**ECON 4388** History of Economic Thought

**ECON 4310** Introduction to Econometrics

Total 18 hrs

* Refer to course descriptions for prerequisites.

**University Core.

Minor in Entrepreneurship (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 hrs

**FINA 1307** Personal Finance 3 hrs

**BUSI 3315** Introduction to Entrepreneurship 3 hrs

**MKTG 3325** Guerrilla Marketing 3 hrs

**BUSI 4310** International Business 3 hrs

**BUSI 4320** New Venture Creation 3 hrs

Total 18 hrs

Business majors will take two 3 hour upper-level Marketing courses, not applied towards their major, in lieu of **BUSI 1310** and **BUSI 4310**.

*Courses may not be applied to both a major and a minor. See course descriptions for prerequisites.

Minor in Human Resource Management (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 hrs
- MGMT 3320 Concepts in Human Resource Management 3 hrs
- MGMT 4305 Staffing and Development 3 hrs
- MGMT 4335 Compensation and Appraisal Systems 3 hrs
- MGMT 4385 Human Resource Planning 3 hrs
- BLAW 4350 Human Resource Law 3 hrs
Total 18 hrs

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:
- MGMT 3355 Organizational Change and Development 3 hrs
- MGMT 4315 Multinational Management 3 hrs
- MGMT 4320 Leadership and Managerial Effectiveness 3 hrs
- MGMT 4390 Current Topics in Management 3 hrs

*Courses may not be applied to both a major and a minor. See course descriptions for prerequisites.

Minor in International Business (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 hrs
- FINA 4315 International Finance 3 hrs
- MGMT 4315 Multinational Management 3 hrs
- MKTG 4340 International Marketing 3 hrs
- BUSI 4310 International Business 3 hrs
- Approved upper level elective 3 hrs
Total 18 hrs

*Courses may not be applied to both a major and a minor. See course descriptions for prerequisites.

Minor in Management (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 hrs
- MGMT 3320 Concepts in Human Resource Management 3 hrs
- MGMT 3355 Organization Change and Development 3 hrs
- MGMT 4315 Multinational Management 3 hrs
- MGMT 4320 Leadership and Managerial Effectiveness 3 hrs
- MGMT 4340 Critical Thinking and Decision Making 3 hrs
Total 18 hrs

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
MGMT 4335  Compensation and Appraisal
MGMT 4385  Human Resource Planning
MGMT 4390  Current Topics in Management

*Courses may not be applied to both a major and a minor. See course descriptions for prerequisites.

Minor in Management Information Systems (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 hrs
- Misy 3310  Management Information Systems Concepts 3 hrs
- Misy 3320  Business Data Communication Systems I 3 hrs
- Misy 3330  Data Base Management 3 hrs
- Misy 3340  Systems Analysis and Design 3 hrs
- Approved MISY or COSC elective 3 hrs
Total 18 hrs

*Courses may not be applied to both a major and a minor. See course descriptions for prerequisites.

Minor in Marketing (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 hrs
- MKTG 3315  Promotional Strategy 3 hrs
- MKTG 3330  Consumer Behavior 3 hrs
Electives: (Choose nine hours from the following**)
- MKTG 3311  Salesmanship: Concepts and Practices 3 hrs
- MKTG 3320  Basic Advertising 3 hrs
- MKTG 3340  Retail Management 3 hrs
- MKTG 3345  Sales Management 3 hrs
- MKTG 4310  Distribution Systems in Marketing 3 hrs
- MKTG 4320  Marketing Research 3 hrs
- MKTG 4340  International Marketing 3 hrs
- MKTG 4350  Marketing Problems 3 hrs
- MKTG 4390  Current Topics in Marketing 3 or 6 hrs

* Courses may not be applied to both a major and a minor. See course descriptions for prerequisites.

**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.

Minor in Personal Financial Planning (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*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 1307</td>
<td>Personal Finance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 3351</td>
<td>Insurance Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 3354</td>
<td>Real Estate Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 3355</td>
<td>Employee Benefits and Retirement Planning</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Designated Electives:
Choice of six credit hours (two courses) from this list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2301</td>
<td>Financial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ECON 2302</td>
<td>Microeconomics Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ECON 3312</td>
<td>Money and Banking</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 3331</td>
<td>Investments</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 4396</td>
<td>Directed Independent Study</td>
<td>3 or 6 hrs</td>
</tr>
<tr>
<td>MATH 1324</td>
<td>Business Mathematics</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Total 18 hrs

For Business Majors:

Required Courses*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 1307</td>
<td>Personal Finance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 3351</td>
<td>Insurance Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 3354</td>
<td>Real Estate Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA 3355</td>
<td>Employee Benefits and Retirement Planning</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Designated Electives:
Choice of six credit hours (two classes) from this list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3321</td>
<td>Federal Income Tax I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ECON 3312</td>
<td>Money and Banking</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FINA XXXX</td>
<td>Upper Division Finance Electives</td>
<td>(excluding Finance Internship) 3 or 6 hrs</td>
</tr>
</tbody>
</table>

Total 18 hrs

*Courses may not be applied to both a major and a minor. See course descriptions for prerequisites

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.)

**UNDERGRADUATE COURSES:**

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

- Accounting (ACCT)
- Business Administration (BUSI)
- Business Law (BLAW)
- Economics (ECON)
- Finance (FINA)
- Management (MGMT)
- Management Information Systems (MISY)
- Marketing (MKTG)
- Operations Management (OPSY)
- Operations Research/Management Science (ORMS)

All course descriptions are located in one section near the end of the catalog.
* Be EXTREMELY careful around the open flame.
* Use only a drop of food coloring (AND don’t stain your clothing!)
* The mixture does not need to boil.
* Instead, just BURN OUT.
* Only use a pinch size pinch of
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, Athletic Training, and Occupational Training and Development. Students may also receive a military commission through the Military Science program.

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 remedial 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 2.50 or 2.50 on the last 30 hours attempted.

THEA Requirement
All sections of the Texas Higher Education Assessment (THEA) test must be passed PRIOR to enrolling in any 4000 level undergraduate EDCI or 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. The degree plan will require signatures from the faculty advisor, academic advisor, certification officer and the student to be considered official. The signed degree plan will be filed by the academic advisor and will be considered the plan the student will follow through to graduation. Students are encouraged to visit their academic and faculty advisors periodically 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.

Because several degree programs are in transition in regard to graduation program requirements and these requirements are in the approval process by the State Board for Educator Certification, administration, faculty, and staff call to the attention of our students the “Catalog Subject to Change” notice listed at the front of this publication. Please consult with your academic and/or faculty advisor regarding questions about any program requirements related to your degree.

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 EDCI or EDUC courses. Application forms for admission to the teacher education program may be obtained from COE Student Services in FC 201.

The student expecting to enter a program leading to teacher certification should apply for admission to the Teacher Education Program and the field-based block experience as part of the course responsibilities for EDCI 3311. These application forms may be obtained from COE Student Services.

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 when requirements are met.)
2. A minimum grade point average of 2.50 on all academic work attempted or a 2.50 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. Completion of EDCI 3311 with a grade of “C” or better.
6. 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.
7. Prerequisite courses:

   **BSIS EC-6 Bilingual Generalist**
   READ 3320 Principles and Practices of Reading Instruction, Grades EC-6
   SMTE 1350 Fundamental Mathematics I
   SMTE 3315 Foundational Approaches to the Physical Sciences
   or
   SMTE 3316 Foundational Approaches to the Life Sciences

   **BSIS EC-6 Generalist with an Early Childhood Specialization**
   ECED 3311 Developmentally Appropriate Practice in Early Childhood Education
   ECED 3324 Child Development
   READ 3320 Principles and Practices of Reading Instruction, Grades EC-6
   READ 3352 Content Area Reading for Elementary Students
   SMTE 1350 Fundamental Mathematics I
   or
   SMTE 1351 Fundamental Mathematics II
   SMTE 3315 Foundational Approaches to the Physical Sciences
or
SMTE 3316  Foundational Approaches to the Life Sciences

**BSIS EC-6 Generalist with a Reading Specialization**
ECED 3311  Developmentally Appropriate Practice in Early Childhood Education
ECED 3324  Child Development
READ 3320  Principles and Practices of Reading Instruction for Grades EC-6
READ 3352  Content Area Reading for the Elementary Student
SMTE 1350  Fundamental Mathematics I
SMTE 3315  Foundational Approaches to the Physical Sciences
or
SMTE 3316  Foundational Approaches to the Life Sciences

**BSIS 4-8 Mathematics**
READ 3321  Reading Instruction for Grades 4-8
READ 3352  Content Area Reading for Elementary Students
SMTE 1350  Fundamental Mathematics I
SMTE 3315  Foundational Approaches to the Physical Sciences
or
SMTE 3316  Foundational Approaches to the Life Sciences

**BSIS EC-12 Special Education**
READ 3320  Principles and Practices of Reading Instruction, Grades EC-6
or
READ 3321  Principles and Practices of Reading Instruction, Grades 4-8
READ 3352  Content Area Reading for Elementary Students
or
READ 3353  Content Area Reading for Secondary Students
SMTE 1350  Fundamental Mathematics I
SMTE 3315  Foundational Approaches to the Physical Sciences
or
SMTE 3316  Foundational Approaches to the Life Sciences

**BS EC-12 Kinesiology**
KINE 3339  Elementary Physical Education Programs
KINE 3341  Secondary Physical Education Programs

8. Thirty-nine hours of the General Education Requirements.
9. A minimum GPA of 2.50 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 2.50 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 1 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 2.50 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 EDCI 3311; EDCI 4321, 4322 or 4323 and EDCI 4605, 4606 or 4607 and any ECED, BIEM, SPED, READ, MATH, KINE courses taken 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 2.50 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 2.50 and may not accept grades below “C”. Students are to check the catalog section which 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:
    - (Grades EC-6) EDCI 4311
    - (EC-12) EDCI 4311
    - (Grades 4-8) EDCI 4313
    - (Grades 8-12) EDCI 4312

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/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.

Certification Testing Accountability

The State Board for Educator Certification (SBEC) requires competency exams for specified certification areas. SBEC reports indicate that for completion year 2008, the initial pass rate from 09/01/07 – 12/31/08 was 96%. Texas A&M University-Corpus Christi is rated accredited.

Department of Education Title II Reporting

The U.S. Department of Education requires an annual institutional report card on the quality of teacher preparation in compliance with Title II of the Higher Education Act. The summary pass rate of program completers for Texas A&M University-Corpus Christi in academic year 2007-2008 was 99%. This represents the third quartile ranking in comparison with pass rates for all teacher preparation programs in Texas. Texas A&M University-Corpus Christi for the year 2007-2008 had 1113 students enrolled in teacher preparation programs with an average of 40 hours per week of supervised teaching required of students enrolled in these programs. The faculty-student ratio in teacher preparation programs was 2.47 students to one faculty member. The ratio is based on the number of student teachers and interns in the certification program divided by the number of supervising faculty. The University’s teacher education programs are fully approved by the State Board for Educator Certification.

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 each teaching field on the student’s certification 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 2.50 or 2.50 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 or Spanish must have passed the BTLPT.
5. Submit an application on line for certification and an application fee to the State Board for Educator Certification (SBEC).

Certification for Persons Holding Degrees

See “Graduate-Level Initial Teaching Certification Program” in the College of Education section of the Graduate Catalog.

BACHELOR OF SCIENCE DEGREE IN INTERDISCIPLINARY STUDIES (BSIS)

A minimum of 120 semester hours is required for the BSIS degree. Degree requirements include general education, 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.

The requirements for the BSIS include
A. General Education Requirements,
B. Interdisciplinary Major Requirements (54-63 semester hours), and
C. Professional Development Requirements (24 semester hours).

A. General Education 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 1311.

B. Interdisciplinary Major Requirements (54-63 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-4 Bilingual Generalist
   EC-4 Generalist
   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 54-63 semester hours must be in upper-division courses.

Degree Requirements

<table>
<thead>
<tr>
<th></th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Course exemptions based upon advanced standing</td>
<td>(6)</td>
</tr>
<tr>
<td>D. Major Requirements &amp; Supporting Fields</td>
<td>54-65</td>
</tr>
<tr>
<td>E. Professional Development Requirement</td>
<td>24</td>
</tr>
<tr>
<td>Total</td>
<td>123-134 (125-136)</td>
</tr>
</tbody>
</table>

*First Year Seminars
   First-Year Seminars or Electives
   Full-time, first-year students are required to take the following courses:
   UCCP 1101/UCCP 1102 First-Year Seminar I, II  2

EC-6 Bilingual Generalist
Student Learning Outcomes
Students in this program 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
BIEM 4345 Language Acquisition and Development  3
BIEM 4349 Linguistics for Bilingual Teachers  3
BIEM 4355 Language Arts Studies in the Bilingual Curriculum  3
BIEM 4356  Content Area Studies in the Bilingual Curriculum  3
BIEM 4357  Methods of Teaching English as a Second Language  3
BIEM 4360  Foundations in Bilingualism  3
READ 3320  Principles and Practice of Reading Instruction, Grades EC-6  3
READ 3351  Diagnosis and Correction of Reading Problems  3
SMTE 1350  Fundamental Mathematics I  3
SMTE 1351  Fundamental Mathematics II  3
SMTE 3315  Foundational Approaches to the Physical Sciences  3
SMTE 3316  Foundational Approaches to the Life Sciences  3
SMTE 3352  Fundamental Mathematics III  3

**Additional Requirements for Certification**
ECED 3324  Child Development  3
ETEC 3310  Technology Applications for Teachers  3
EDCI 2307  Schooling in a Democracy  3
SPED 4310  The Exceptional Child  3
ETEC 3100  Educational Technology for Preservice Teachers in Schools  1

**EC-6 Generalist with an Early Childhood Specialization**

**Student Learning Outcomes**
Bachelor of Science in Interdisciplinary Studies (BSIS) EC-6 Generalist graduates will be able to:

- design instruction and assessment 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 as teachers among diverse student populations;
- articulate and fulfill professional roles and responsibilities.

**Major Requirements EC-6**

*All courses in ECED and READ must be completed with a grade of “C” or better.*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIEM 4357</td>
<td>Methods of Teaching English as a Second Language</td>
<td>3</td>
</tr>
<tr>
<td>ECED 2310</td>
<td>Survey of Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECED 3311</td>
<td>Developmentally Appropriate Practice in ECE</td>
<td>3</td>
</tr>
<tr>
<td>ECED 3324</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>ECED 4330</td>
<td>Health, Nutrition, and Locomotor Concepts for the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>ECED 4310</td>
<td>Socialization of the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECED 4320</td>
<td>The Young Child, Family &amp; Community Resources</td>
<td>3</td>
</tr>
<tr>
<td>ECGL 4350</td>
<td>Mathematics, Science and Social Studies in ECE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3340</td>
<td>The English Language: Grammar</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3360</td>
<td>Current Approaches to Composition and Literature</td>
<td>3</td>
</tr>
<tr>
<td>READ 3320</td>
<td>Principles and Practices of Reading Instruction, Grades EC-6</td>
<td>3</td>
</tr>
<tr>
<td>READ 3352</td>
<td>Content Area Reading for Elementary Students</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 1350</td>
<td>Fundamental Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 1351</td>
<td>Fundamental Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 3315</td>
<td>Foundational Approaches to the Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 3316</td>
<td>Foundational Approaches to the Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 3352</td>
<td>Fundamental Mathematics III</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 1300</td>
<td>World Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Requirements for Certification**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETEC 3100</td>
<td>Educational Technology for Preservice Teachers in Schools</td>
<td>1</td>
</tr>
<tr>
<td>SPED 4310</td>
<td>The Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 3100</td>
<td>Educational Technology for Preservice Teachers in Schools</td>
<td>1</td>
</tr>
</tbody>
</table>
EC-6 Generalist with a Reading Specialization

Student Learning Outcomes
Bachelor of Science in Interdisciplinary Studies (BSIS) EC-6 Reading graduates will be able to:
- 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 36 hours

All courses in ECED and READ must be completed with a grade of “C” or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ 3320</td>
<td>Principles and Practices of Reading Instruction, Grades EC-6</td>
<td>3</td>
</tr>
<tr>
<td>READ 3351</td>
<td>Diagnosis and Correction of Reading Problems</td>
<td>3</td>
</tr>
<tr>
<td>READ 3352</td>
<td>Content Area Reading for Elementary Students</td>
<td>3</td>
</tr>
<tr>
<td>READ 4352</td>
<td>Advanced Practices in Reading/Language Arts</td>
<td>3</td>
</tr>
<tr>
<td>READ 4380</td>
<td>Children’s and Adolescents’ Literature</td>
<td>3</td>
</tr>
<tr>
<td>READ 4394</td>
<td>Field Experiences in Reading</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 1350</td>
<td>Fundamental Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 1351</td>
<td>Fundamental Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 3315</td>
<td>Foundational Approaches to the Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 3316</td>
<td>Foundational Approaches to the Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 3352</td>
<td>Fundamental Mathematics III</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3340</td>
<td>The English Language: Grammar</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3360</td>
<td>Current Approaches to Composition and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Requirements for Certification

Students take the following 18 hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETEC 3310</td>
<td>Technology Applications for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>ECED 4350</td>
<td>Mathematics, Science, and Social Studies in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 2307</td>
<td>Schooling in a Democracy</td>
<td>3</td>
</tr>
<tr>
<td>SPED 4310</td>
<td>The Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>ECED 3324</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>ECED 3311</td>
<td>Developmentally Appropriate Practice in Early Childhood Education</td>
<td>3</td>
</tr>
</tbody>
</table>

4-8 Mathematics

Student Learning Outcomes
Bachelor of Science in Interdisciplinary Studies (BSIS) 4-8 Mathematics graduates will be able to:
- 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1316</td>
<td>Trigonometry</td>
<td></td>
</tr>
</tbody>
</table>

or
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2312</td>
<td>Precalculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2305</td>
<td>Discrete Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2413</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1442</td>
<td>Statistics for Life</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3311</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3312</td>
<td>Geometry</td>
<td>3</td>
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<tr>
<td>SMTE 1350</td>
<td>Fundamental Mathematics I</td>
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</tr>
<tr>
<td>SMTE 1351</td>
<td>Fundamental Mathematics II</td>
<td>3</td>
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<td>SMTE 3352</td>
<td>Fundamental Mathematics III</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 4382</td>
<td>Basic Mathematics from an Advanced Viewpoint</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3331</td>
<td>Texas History</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 1300</td>
<td>World Geography</td>
<td>3</td>
</tr>
<tr>
<td>BIEM 4357</td>
<td>Methods of Teaching English as a Second Language</td>
<td>3</td>
</tr>
<tr>
<td>READ 3321</td>
<td>Principles and Practices of Reading Instruction for Grades 4-8</td>
<td>3</td>
</tr>
<tr>
<td>READ 3351</td>
<td>Diagnosis and Correction of Reading Problems</td>
<td>3</td>
</tr>
<tr>
<td>READ 3352</td>
<td>Content Area Reading for Elementary Students</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 3315</td>
<td>Foundational Approaches to the Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 3316</td>
<td>Foundational Approaches to the Life Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Requirements**

- ENGL 3340 The English Language: Grammar
- or
- ENGL 3360 Current Approaches to Composition and Literature
- EDCI 2307 Schooling in a Democracy
- SPED 4310 The Exceptional Child

**EC-12 Special Education**

**Student Learning Outcomes**

Students in this program 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 The Exceptional Child
- SPED 4320 Community Based Instruction for the Exceptional Child
- SPED 4325 Teaching Strategies for Exceptional Children
- SPED 4330 Individualized Programs for Exceptional Children
- SPED 4335 Applied Learning Theory
- SPED 4397 Special Education Practicum
- SPED 4398 Advanced Special Education Practicum
- READ 3320 Principles and Practices of Reading Instruction, Grades EC-6
- or
- READ 3321 Principles and Practices of Reading Instruction, Grades 4-8
- READ 3351 Diagnosis and Correction of Reading Problems
- READ 3352 Content Area Reading for Elementary Students
- or
- READ 3353 Content Area Reading for Secondary Students
SMTE 1350  Fundamental Mathematics I  3
SMTE 1351  Fundamental Mathematics II  3
SMTE 3315  Foundational Approaches to the Physical Sciences  3
SMTE 3316  Foundational Approaches to the Life Sciences  3
SMTE 3352  Fundamental Mathematics III  3

Additional Requirements for Certification
EDCI 2307  Schooling in a Democracy  3
ETEC 3310  Technology Applications for Teachers  3
READ 4380  Children’s and Adolescent Literature  3

C. Professional Development Requirements (24 semester hours)

EC-6 Generalist with an Early Childhood Specialization, EC-6 Generalist with a Reading Specialization and EC-6 Bilingual Generalist
EDCI 3311  School and Society  3
EDCI 4605  Planning, Teaching, Assessment and Technology for Grades EC-6 Teachers  6
EDCI 4321  Instructional Design for Special Populations: Grades EC-6  3
EDCI 4311  Classroom Management: Grades EC-6  3
EDUC 4991  Student Teaching: Grades EC-6  9

4-8 Mathematics
EDCI 3311  School and Society  3
EDCI 4607  Planning, Teaching, Assessment and Technology for Grades 4-8 Teachers  6
EDCI 4323  Instructional Design for Special Populations: Grades 4-8  3
EDCI 4313  Classroom Management: Grades 4-8  3
EDUC 4992  Student Teaching: Grades 4-8  9

EC-12 Special Education
EDCI 3311  School and Society  3
EDCI 4606  Planning, Teaching, Assessment and Technology for Grades 8-12  6
EDCI 4321  Instructional Design for Special Populations: Grades EC-6  3
EDCI 4311  Classroom Management: Grades EC-6  3
EDUC 4393/4692  Student Teaching: Grades 8-12 (3 hours) and Student Teaching Grades EC-6 (6 hours)  9

or
EDUC 4392/4693  Student Teaching: Grades EC-6 (3 hours) and Student Teaching Grades 8-12 (6 hours)  9

COLLEGE OF EDUCATION CERTIFICATION REQUIREMENTS

Individuals seeking to teach in the elementary and secondary schools of the state of Texas must meet certain certification as well as degree requirements. Information related to these requirements is contained in the following sections.

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 an Early Childhood Specialization, 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 bac-
calaureate 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. (See “General Education Requirement” 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 as listed below:
   A. Secondary
      Twelve semester hours of professional education:
      EDCI 3311 School and Society (3 semester hours)
      EDCI 4606 Planning, Teaching, Assessment and Technology for Secondary Teachers: field based (6 semester hours)
      EDCI 4322 Instructional Design for Special Populations
      Twelve semester hours of student teaching:
      EDUC 4993 Student Teaching: Secondary
      EDCI 4312 Classroom Management
   B. EC-12
      Twelve semester hours of professional education:
      EDCI 3311 School and Society (3 semester hours)
      EDCI 4606 Planning, Teaching, Assessment and Technology for Secondary Teachers: field based (6 semester hours)
      EDCI 4321 Instructional Design for Special Populations
      Twelve semester hours of student teaching:
      EDUC 4392 Student Teaching: Grades EC-6
      EDUC 4693 Student Teaching: Grades 8-12
      or
      EDUC 4393 Student Teaching: Grades 8-12
      EDUC 4692 Student Teaching: Grades EC-6
      EDCI 4311 Classroom Management
5. A passing score on the appropriate TExES tests.

KINESIOLOGY

The Department of Kinesiology offers a major in kinesiology and a major in athletic training. Specializations in the kinesiology major include; 1) EC-12 Physical Education Certification, 2) Exercise Science, 3) Pre-Physical Therapy/Pre-Occupational Therapy, and 4) Sport Management.

BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN KINESIOLOGY

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.

Student Learning Outcomes

Bachelor of Science with a major in Kinesiology graduates will be able to:
- 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.

The requirements for Bachelor of Science Degree in Kinesiology are discussed below:

**General Education Requirements (45 semester hours)**

Students enrolled in a Kinesiology program 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 Program.”)

**EC-12 Physical Education Certification (128-129 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.

### Degree Requirements

<table>
<thead>
<tr>
<th>Section</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>44-45</td>
</tr>
<tr>
<td>D. Physical Education Certification Special Emphasis</td>
<td>12</td>
</tr>
<tr>
<td>E. Physical Education Certification Special Foundations</td>
<td>27</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>128-129 (130-131)</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

**First-Year Seminars or Electives**

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

- UCCP 1101/UCCP 1102 First-Year Seminar I, II 2

### EC-12 Physical Education Certification Major Requirements (44 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 1110</td>
<td>Individual/Dual/Lifetime Sports</td>
<td>1</td>
</tr>
<tr>
<td>KINE 1122</td>
<td>Non-Traditional Team Sports</td>
<td>1</td>
</tr>
<tr>
<td>KINE 2215</td>
<td>First Aid &amp; Safety</td>
<td>2</td>
</tr>
<tr>
<td>KINE 2313</td>
<td>Foundations of Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 2325</td>
<td>Physiological Aspects of Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 2401</td>
<td>Anatomy and Physiology I</td>
<td>3/4</td>
</tr>
<tr>
<td>KINE 2375</td>
<td>Nutrition for Human Performance</td>
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</tr>
<tr>
<td>or</td>
<td></td>
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</tr>
<tr>
<td>HLTH 4350</td>
<td>Creative Lifestyles for Wellness</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3337</td>
<td>Psychology of Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3338</td>
<td>Motor Development/Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3339</td>
<td>Elementary Physical Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3341</td>
<td>Secondary Physical Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4311</td>
<td>Measurement and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4312</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4112</td>
<td>Physiology of Exercise Lab</td>
<td>1</td>
</tr>
<tr>
<td>KINE 4325</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4327</td>
<td>Biomechanics</td>
<td>3</td>
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<tr>
<td>KINE 4127</td>
<td>Biomechanics Lab</td>
<td>1</td>
</tr>
<tr>
<td>KINE 4339</td>
<td>Special Populations in Kinesiology</td>
<td>3</td>
</tr>
</tbody>
</table>
Activity Course Electives (2 semester hours)
To fulfill the two-hour elective requirement students may choose any one or two-hour coaching and/or activity courses.

EC-12 Physical Education Certification Special Emphasis (minimum of 12 semester hours)
Students completing the EC-12 Physical Education Certification must complete four courses (a minimum of 12 semester hours) in a special emphasis area (second teaching field) approved by their faculty mentor. Students must pass these courses with a grade of “C” or better. It is strongly recommended that students take two additional courses beyond the required four in this discipline to better prepare themselves for the TExES certification test.

EC-12 Physical Education Certification Special Foundations (27 semester hours)
(See “College of Education Certification Requirements” in this catalog for the EDCI 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 2.50 on all academic work taken in Kinesiology prior to being admitted into the Teacher Education Program.

Exercise Science Specialization (123-126 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 and an Exercise Science Specialization will demonstrate knowledge of structural kinesiology, exercise physiology, biomechanics, sport psychology, and measurement and evaluation. Specifically, the student will have the ability to:
- 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.

Students pursuing the Exercise Science Specialization should complete MATH 1442 Statistics for Life to satisfy the mathematics component of the Core Curriculum.

Degree Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>27</td>
</tr>
<tr>
<td>D. Exercise Science Special Emphasis Requirements</td>
<td>29-30</td>
</tr>
<tr>
<td>E. Exercise Science Special Foundations</td>
<td>22-24</td>
</tr>
<tr>
<td>Total</td>
<td>123-126 (125-128)</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives
Full-time, first-year students are required to take the following courses:
UCCP 1101/UCCP 1102  First-Year Seminar I, II  2

Exercise Science Major Requirements (27 semester hours)
KINE 2313  Foundations of Kinesiology  3
KINE 3337  Psychology of Sport  3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 3338</td>
<td>Motor Development/Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4311</td>
<td>Measurement and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4312</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4112</td>
<td>Physiology of Exercise Lab</td>
<td>1</td>
</tr>
<tr>
<td>KINE 4325</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4327</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4127</td>
<td>Biomechanics Lab</td>
<td>1</td>
</tr>
<tr>
<td>KINE 4339</td>
<td>Special Populations in Kinesiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Exercise Science Special Emphasis Requirements (29/30 semester hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 1106</td>
<td>Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>KINE 2215</td>
<td>First Aid &amp; Safety</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 2315</td>
<td>CPR and First Aid for the Professional Rescuer</td>
<td>2/3</td>
</tr>
<tr>
<td>KINE 2225</td>
<td>Sports Conditioning</td>
<td>2</td>
</tr>
<tr>
<td>KINE 2375</td>
<td>Nutrition for Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3318</td>
<td>Prevention and Care of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3335</td>
<td>Legal Issues in Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4340</td>
<td>Exercise Testing and Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4693</td>
<td>Professional Field Experiences I</td>
<td>6</td>
</tr>
<tr>
<td>KINE 4694</td>
<td>Professional Field Experiences II</td>
<td>6</td>
</tr>
</tbody>
</table>

To enroll in the Professional Field Experiences students must have departmental approval as well as an overall and Kinesiology GPA of 2.50.

Exercise Science Special Foundations (18-20 semester hours)*

Students must pass these courses with a grade of “C” or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 2325</td>
<td>Physiological Aspects of Kinesiology</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 2401</td>
<td>Anatomy and Physiology I</td>
<td>3/4</td>
</tr>
<tr>
<td>KINE (3 hour upper division kinesiology elective)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 2402</td>
<td>Anatomy and Physiology II</td>
<td>3/4</td>
</tr>
<tr>
<td>BUSI 1310</td>
<td>Introduction to the Business Environment</td>
<td>3</td>
</tr>
<tr>
<td>FINA 1307</td>
<td>Personal Finance</td>
<td>3</td>
</tr>
<tr>
<td>KINE 2314</td>
<td>Sport Management or MGMT 3312 Behavior in Organization</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3330</td>
<td>Promotion of Sport</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1442</td>
<td>Statistics for Life (included in Core Curriculum)</td>
<td>(4)</td>
</tr>
</tbody>
</table>

*The total shown does not include the hours applied to the core curriculum.

Pre-Physical Therapy/Pre-Occupational Therapy Specialization (128-129 semester hours)

Students seeking a career in physical therapy or occupational therapy should complete the requirements of the Pre-Physical Therapy/Pre Occupational Therapy Specialization of the Kinesiology major. The Pre-Physical Therapy and Pre-Occupational Therapy Specialization serves as an excellent preparatory program for students pursuing graduate study in physical therapy or occupational therapy as well as post baccalaureate study in exercise physiology, biomechanics, and cardiac rehabilitation. Graduates with a BS in Kinesiology and a Pre-Physical Therapy/Pre-Occupational Therapy Specialization will demonstrate knowledge of basic kinesiology theory and principles as they relate to the fields of physical and occupational therapy. Specifically, the student will be able to:

- 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**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>28</td>
</tr>
<tr>
<td>D. Special Emphasis Requirements</td>
<td>31-32</td>
</tr>
<tr>
<td>E. Special Foundations</td>
<td>24</td>
</tr>
</tbody>
</table>

**Total** 128-129 (130-131)

*First Year Seminars
First-Year Seminars or Electives

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

- UCCP 1101/UCCP 1102  First-Year Seminar I, II  2

**Pre-Physical Therapy/Pre-Occupational Therapy Major Requirements (28 semester hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 2313</td>
<td>Foundations of Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3337</td>
<td>Psychology of Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3338</td>
<td>Motor Development/Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4311</td>
<td>Measurement and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4312</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4112</td>
<td>Physiology of Exercise Lab</td>
<td>1</td>
</tr>
<tr>
<td>KINE 4325</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4327</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4127</td>
<td>Biomechanics Lab</td>
<td>1</td>
</tr>
<tr>
<td>KINE 4339</td>
<td>Special Populations in Kinesiology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Pre-Physical Therapy/Pre Occupational Therapy Special Emphasis Requirements (31/32 semester hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 2215</td>
<td>First Aid &amp; Safety</td>
<td></td>
</tr>
<tr>
<td>KINE 2315</td>
<td>CPR and First Aid for the Professional Rescuer</td>
<td>2/3</td>
</tr>
<tr>
<td>KINE 2225</td>
<td>Sports Conditioning</td>
<td>2</td>
</tr>
<tr>
<td>KINE 2375</td>
<td>Nutrition for Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3318</td>
<td>Prevention and Care of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3320</td>
<td>Therapeutic Modalities</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3335</td>
<td>Legal Issues in Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4340</td>
<td>Exercise Testing and Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4693</td>
<td>Professional Field Experiences I</td>
<td>6</td>
</tr>
<tr>
<td>KINE 4694</td>
<td>Professional Field Experiences II</td>
<td>6</td>
</tr>
</tbody>
</table>

To enroll in the Professional Field Experiences students must have departmental approval as well as an overall and Kinesiology GPA of 2.50.

**Pre-Physical Therapy/Pre-Occupational Therapy Special Foundations (24 semester hours)**

Students completing the Pre-Physical Therapy/Pre-Occupational Therapy track must complete a minimum of 24 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. These courses may include, but are not limited to the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2401</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2402</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
</tbody>
</table>
CHEM 1311 General Chemistry I 3
CHEM 1111 General Chemistry I Lab 1
CHEM 1312 General Chemistry II 3
CHEM 1112 General Chemistry II Lab 1
PHYS 1401 General Physics I 4
PHYS 1402 General Physics II 4

Sport Management Specialization (126-127 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 and a Sport Management Specialization will be able to demonstrate theoretical and practical knowledge of sport management concepts. Specifically, the student will have the ability to:

• 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

<table>
<thead>
<tr>
<th></th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>40-41</td>
</tr>
<tr>
<td>D. Special Emphasis Requirements</td>
<td>26</td>
</tr>
<tr>
<td>E. Special Foundations</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>127 (129)</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102 First-Year Seminar I, II 2

Sport Management Major Requirements (41 semester hours)

KINE 2225 Sports Conditioning 2
KINE 2313 Foundations of Kinesiology 3
KINE 2314 Sport Management 3
KINE 2325 Physiological Aspects of Kinesiology 3

or

BIOL 2401 Anatomy and Physiology I 3/4
KINE 2375 Nutrition for Human Performance 3
KINE 3335 Legal Issues In Sport 3
KINE 3337 Psychology of Sport 3
KINE 3338 Motor Development/Motor Learning 3
KINE 4311 Measurement and Evaluation 3
KINE 4312 Physiology of Exercise 3
KINE 4112 Physiology of Exercise Lab 1
KINE 4325 Kinesiology 3
KINE 4327 Biomechanics 3
KINE 4127 Biomechanics Lab 1
KINE 4339 Special Populations in Kinesiology 3
Sport Management Special Emphasis (26 semester hours)
KINE 2215  First Aid & Safety  2
KINE 2357  Sport Officiating
or
KINE 3301  Outdoor Adventure Program  3
KINE 3330  Promotion of Sport  3
KINE 3366  Managing Leisure Services  3
KINE 4308  Facilities Design and Planning  3
KINE 4693  Professional Field Experiences I  6
KINE 4694  Professional Field Experiences II  6
To enroll in the Professional Field Experiences students must have departmental approval as well as an overall and Kinesiology GPA of 2.50.

Sport Management Special Foundations (15 semester hours)
Students completing the Sport Management Specialization must complete a minimum of 15 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 15 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 DEGREE WITH A MAJOR IN ATHLETIC TRAINING (123 semester hours)
The Bachelor of Science Degree with a major in Athletic Training 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. Graduates with a BS in Athletic Training will be able to:

- apply appropriate preventative techniques, bracing, or taping to reduce the frequency or severity of athletic injuries;
- perform a clinical evaluation of an athletic injury, formulate a clinical impression of the diagnosis, and make appropriate referral to physicians or other healthcare professionals as needed to best serve the patient;
- provide immediate care to athletic injuries, including the use of standard emergency procedures;
- administer a therapeutic treatment, rehabilitation and reconditioning program in order to facilitate the recovery, function, and performance of the patient;
- establish and manage policies and procedures for the delivery of healthcare services following accepted guidelines to promote safe participation, timely care, and legal compliance.

Admission to the Athletic Training Education Program
Students majoring in Athletic Training must be admitted to the Pre-Professional Phase of the Athletic Training Education Program at Texas A&M University-Corpus Christi PRIOR to enrolling in any clinical experience courses. Application forms for admission to the Athletic Training Education Program may be obtained electronically at http://athletictraining.tamucc.edu or from the Kinesiology Department, Faculty Center 237 hallway. 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 Education Program include:

1. Admission to the University.
2. Submission of the application form and three letters of recommendation.
3. Submission of proof of Hepatitis B immunization or waiver, TB screening, and medical clearance from a physician stating the student’s health condition is adequate for the completion of the program.
4. Submission of signed Technical Standards form verifying that the student can meet the technical standards set forth by the Athletic Training Education Program with or without accommodation.

Formal acceptance into the Athletic Training Education Program will be determined at the end of the fall semester based upon the following criteria:
1. The student must complete KINE 1320 and KINE 2191 with a grade of “B” or better.
2. The student must have an overall GPA of at least 2.50.
3. The student who meets the above criteria will be invited for a personal interview with the Athletic Training faculty and staff. The program is competitive and only a limited number of students will be admitted each year. The Athletic Training faculty and staff will consider all professional and personal qualifications in determining applicants for formal admission to the program. Individuals denied admission three times are ineligible to re-apply.

Accelerated Program for Transfer Students
A prospective student with at least 30 hours of transferable credit from another field of study at A&M-Corpus Christi or another university may be considered for an accelerated program, allowing the student to complete the clinical education in three years instead of four. To qualify for the accelerated program, students must meet the following criteria after completion of their first year in the 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 GPA of 2.50.
3. The student must receive a positive recommendation from both the Clinical Education Coordinator and Director of the Athletic Training Education Program.

Retention in the Athletic Training Education 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 2.50 or higher.
2. The student must complete each semester with a minimum GPA of 2.50 or higher.
3. The student must have completed each of the clinical experience courses with a grade of “C” 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 year. A student on probation may be restricted from enrolling in clinical experience courses if the student has not completed the required proficiencies for the previous clinical experience course. If the student has not corrected the unsatisfactory work by the end of the probationary period, the student will be suspended from the program. Students suspended from the program may appeal the suspension to the Athletic Training Education Program Director. Students suspended from the Program must wait one year before 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 www.athletictraining.tamucc.edu.
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 in the ATS Handbook.
4. Students are responsible for providing their own transportation to off-campus clinical sites.
5. Students will be provided with polo shirts and t-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 Degree in Athletic Training are discussed below:

**Degree Requirements**

<table>
<thead>
<tr>
<th></th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>48</td>
</tr>
<tr>
<td>D. Athletic Training Special Emphasis</td>
<td>13</td>
</tr>
<tr>
<td>E. Athletic Training Special Foundations</td>
<td>17</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>123 (125)</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101/UCCP 1102 First-Year Seminar I, II</td>
<td>2</td>
</tr>
</tbody>
</table>

**General Education Requirements (45 semester hours)**

Students majoring in Athletic Training 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 Program.”) Athletic Training students must take BIOL 1406, CHEM 1311, and PSYC 2301 to satisfy the requirements for the Natural Science and Social Science areas in the core curriculum. CHEM 1111 is also required. Only 3 hours of BIOL 1406 will apply to the University Core Curriculum. The one hour laboratory component for BIOL 1406 and CHEM 1111 will be counted in the major requirements.

**Athletic Training Major Requirements (48 semester hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2401 Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2402 Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>KINE 1320 Introduction to Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>KINE 2191 Clinical Experience in Athletic Training I</td>
<td>1</td>
</tr>
<tr>
<td>KINE 2192 Clinical Experience in Athletic Training II</td>
<td>1</td>
</tr>
<tr>
<td>KINE 3191 Clinical Experience in Athletic Training III</td>
<td>1</td>
</tr>
<tr>
<td>KINE 3192 Clinical Experience in Athletic Training IV</td>
<td>1</td>
</tr>
<tr>
<td>KINE 4191 Clinical Experience in Athletic Training V</td>
<td>1</td>
</tr>
<tr>
<td>KINE 4192 Clinical Experience in Athletic Training VI</td>
<td>1</td>
</tr>
<tr>
<td>KINE 4193 Clinical Experience in Athletic Training VII</td>
<td>1</td>
</tr>
<tr>
<td>KINE 4194 Clinical Experience in Athletic Training VIII</td>
<td>1</td>
</tr>
<tr>
<td>KINE 2315 CPR and First Aid for the Professional Rescuer</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3318 Prevention and Care of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3320 Therapeutic Modalities</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3322 Evaluation of Upper Extremity Injuries</td>
<td>3</td>
</tr>
<tr>
<td>KINE 3324 Evaluation of Lower Extremity Injuries</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4322 Rehabilitation of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4324 Administration of Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4326 Medical Terminology and Conditions in Sport and Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4328 Sport and Exercise Pharmacology</td>
<td>3</td>
</tr>
</tbody>
</table>
Athletic Training Special Emphasis (13 semester hours)
KINE 1106  Weight Training  1
KINE 2225  Sports Conditioning  2
KINE 2375  Nutrition for Human Performance  3
KINE 4340  Exercise Testing and Prescription  3
BIMS 3401  Pathophysiology  4

Athletic Training Special Foundations (17 semester hours)
KINE 3337  Psychology of Sport  3
KINE 4311  Measurement and Evaluation  3
KINE 4312  Physiology of Exercise  3
KINE 4112  Physiology of Exercise Lab  1
KINE 4325  Kinesiology  3
KINE 4327  Biomechanics  3
KINE 4127  Biomechanics Lab  1

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. 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/.

EC-12 HEALTH
Students who propose to teach in the field of Health can receive certification as follows:
Once students have graduated and passed all TExES assessment exams specific to their field of study and are certified by the state to teach, they may opt to take the EC-12 Health test #157. Students who successfully pass the test will receive a health certificate.

BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN OCCUPATIONAL TRAINING AND DEVELOPMENT
A minimum of 120 semester hours is required for the Bachelor of Science Degree with a major in Occupational Training and Development. Degree requirements include general education, the occupational specialization, occupational support, interdisciplinary/applied arts, occupational training and development, and applied electives.

Student Learning Outcomes
Graduates will:
• demonstrate personal characteristics of the successful occupational instructor;
• demonstrate professional qualities of the successful occupational instructor;
• demonstrate instructional strategies to enhance student achievement and growth in the occupational environment.

General Education 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 Program.”)
Degree Requirements

A. University Core 45
B. First-Year Seminars (when applicable)* (2)
C. Occupational Specialization Requirements 24
D. Occupational Specialization Support 18
E. Interdisciplinary/Applied Arts 9
F. Occupational Training and Development 6
G. Electives 18

Total 120 (123)

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102  First-Year Seminar I, II  2

Occupational Specialization Requirements (24 semester hours)

Semester-hour credit for the Occupational Specialization may be completed at a community college, technical institute, Texas A&M University-Corpus Christi or another institution of higher education.

Occupational Specialization Support (18 semester hours)

Selected from the following:

OCTD 3390  Instructional Media  3
OCTD 4305  Methods of Teaching Career and Technology Education Subjects  3
OCTD 4335  Development, Organization and Use of Instructional Materials  3
OCTD 4336  Shop and Classroom Organization and Management  3
OCTD 4337  Selection, Placement and Follow-up in Career and Technology Education  3
OCTD 4338  Human Relations for Career and Technology Education Teachers  3
OCTD 4339  History of Career and Technology Education Training  3
OCTD 4340  Analysis and Course Making  3
OCTD 4387  Career and Technology Education for the Exceptional Child  3

Interdisciplinary/Applied Arts (9 semester hours)

Course work applicable to the Occupational Specialization requires advisor approval.

OCTD 4398  Occupational Training and Development Internship  6

Applied Electives

Electives as needed to complete minimum of 120 degree semester hours and 45 upper-division hour requirements.

Trade and Industrial Teacher Certification (Grades 8-12)

Students seeking certification to teach one of the courses related to the Trade and Industrial (T&I) discipline at the secondary level (Grade 8-12) must comply with the following requirements. The student must first adhere to University admission requirements (See Admission section of the catalog.). The student is also required to complete a TB screening and criminal background check.

Placement in the T&I classroom is subject to the approval of the student’s Statement of Qualifications (SOQ) form. In addition, the student will be required to be the teacher of record for one year at the secondary level in a public school to be considered for T&I certification. As a part of this admittance process the student will be provided with a certification plan. Registration in OCTD 4698 and employment with a school district will allow the student
to obtain a Probationary Certificate. The Probationary Certificate is a one year certificate that may be renewed for one additional year. The certification courses follow:

- OCTD 4305 Methods of Teaching Career and Technology Education
- OCTD 4335 Development, Organization and Use of Instructional Materials
- OCTD 4336 Shop and Classroom Organization and Management
- OCTD 4337 Selection, Placement and Follow-up in Career and Technology Education
- OCTD 4338 Human Relations for Career and Technology Education
- OCTD 4340 Analysis and Coursemaking
- OCTD 4698 Occupational Training and Development Internship

Other requirements for completion of the T&I certification program include obtaining completion certificates as a result of attending the Texas Education Agency’s New Teacher’s Workshop and the T&I Teacher’s Summer Improvement Conference.

Once the student has completed all certification requirements he/she will be given the appropriate bar code for the TIE-PPR TExES exam. After the student passes the TExES exam, he/she will be eligible to apply for and be recommended for the secondary Standard Teaching Certificate for T&I teachers.

The T&I teacher certification may be used toward a Bachelor of Science degree in Occupational Training and Development. The T&I teacher certification requirements meet or exceed the certification standards as described in the Texas Administrative Code (TAC), Title 19, Part 7, Chapter 230, Subchapter P, Rule 230.483.

**MILITARY SCIENCE PROGRAM**

A four year ROTC program includes instruction for freshman and sophomore students as well as advanced students.

**Basic Military Science (8 semester hours)**

- MSCI 1170 Introduction to Basic Military Science 1
- MSCI 1171 Basic Military Science and Survival 1
- MSCI 2370 Basic Military Science 3
- MSCI 2371 Leadership and Management 3

Enrollment into MSCI 2370 or 2371 requires enrollment into corresponding lab.

**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  Advanced Military Science I  3
- MSCI 3304  Advanced Military Science II  3
- MSCI 3499  Internship in Military Science  4
- MSCI 4303  Advanced Military Science III  3
- MSCI 4304  Advanced Military Science IV  3
- MSCI 4305  Advanced Problems  3

Enrollment into MSCI 3303, 3304, 4303 or 2371 requires enrollment into corresponding lab.

**UNDERGRADUATE COURSES**

The College of Education offers undergraduate courses in the following fields:
- Bilingual/ESL/Multicultural (BIEM)
- Early Childhood (ECED)
- Educational Curriculum and Instruction (EDCI)
- Educational Technology (ETEC)
- Student Teaching (EDUC)
- Health (HLTH)
- Kinesiology (KINE)
- Military Science (MSCI)
- Occupational Training and Development (OCTD)
- Reading Education (READ)
- Special Education (SPED)

All course descriptions are located in one section near the end of the catalog.
College of Liberal Arts

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 skills, communication abilities, and critical thinking. It provides majors and minors in specialized subjects in 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.

Students of the College of Liberal Arts learn by:
• participating in and completing the University Core Curriculum Program;
• pursuing undergraduate study in a major that provides an understanding of the specialized content of the major and its methodology;
• pursuing graduate study focused on understanding the literature, theory, research methods, and professional skills of a field; and
• attending lectures, symposia, and visual and performing arts events, which enhance formal instruction.

The College has a well-qualified faculty committed to teaching, learning, scholarly and creative activity, and service. The College emphasizes excellence in teaching and academic counseling of students throughout their academic careers. It seeks to foster scholarly and creative activity among faculty and students. Recognizing the importance of service to the community and the region, the College of Liberal Arts provides South Texas with expertise, consulting services, and cultural events.

DISCIPLINES
The College of Liberal Arts offers undergraduate courses in the following areas:

- Anthropology
- Art
- Communication
- Criminal Justice
- English
- French
- Geography
- German
- History
- Mexican American Studies
- Music
- Philosophy
- Political Science
- Psychology
- Social Work
- Sociology
- Spanish
- Theatre
- Women and Gender Studies

DEGREE PROGRAMS
The College of Liberal Arts offers majors and degrees in the following areas:

- Applied Arts and Sciences
- Art
- Art, Studio
- Communication
- Criminal Justice
- Economics
- English
- History
- Interdisciplinary Study
- Music
- Political Science
- Psychology
- Public Administration
- BAS
- BA, BFA
- MA, MFA
- BA,MA
- BS
- BA
- BA, MA
- BA, MA
- MA
- BM, BA
- BA
- BA, MA
- MPA
The College of Liberal Arts offers minors in the following areas:

Art History       Latin American Studies       Sociology
Communication     Mexican-American Studies     Spanish
Creative Writing  Music                         Studio Art
Criminal Justice  Philosophy                  Technical/Profess. Writing
English (literature) Political Science       Theatre
European Union Studies Public Relations       Theatre for Youth
History           Psychology                     Urban Studies
Journalism        Social Work                  Women & Gender Studies

PRE LAW
Pre law students should consult with a pre law advisor about the proper selection of a major and of elective courses. Pre law advisors also have 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 course work 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 course work taken as part of the University 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. Courses that count towards a student’s major or another minor may not be counted towards the 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 “course work 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 course work 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 course work 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 45-48 hour core curriculum (see sections entitled “Undergraduate Programs” and “University Core Curriculum Programs”).

College Language Requirement

All students majoring in degree programs offered by this college, other than 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 or AP 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: FREN1311, FREN1312, FREN2311, FREN2312, GERM1311, GERM1312, GERM2311, GERM2312, SPAN1311, SPAN1312, SPAN2311, SPAN2312, SPAN2313, SPAN3302, SPAN3303, SPAN3311, SPAN3312, SPAN4303, SPAN4320.

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/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 and students will be notified by letter when their degree plans are ready for signature. The degree plan must be signed by the student, faculty advisor, and the Department Chair. Any amendment to an original degree plan must be approved by the student’s academic advisor and the Department Chair, and a revised degree plan filed with the Office of the Dean. All courses and requirements specified in the final plan 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:

- Journalism
- Latin American Studies
- Mexican American Studies
- Public Relations
- Social Work
- Technical and Professional Writing
- Urban Studies
- Women and Gender Studies

For a description of the Minor in Geography, please see the College of Science and Technology 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
- Communication Speech
- English English Language Arts/Reading
- History History
- History Social Studies
- Music Music
- Spanish Spanish
- Theatre Theatre Arts
- Grades EC-12
- Grades 8-12
- Grades 8-12
- Grades 4-8
- Grades 8-12
- Grades 4-8
- Grades EC-12
- Grades 8-12
- 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:

- General Education - The University Core Curriculum: 45-48 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4396.</td>
<td>1-3 hrs.</td>
<td>DIRECTED INDIVIDUAL STUDY (DIS)</td>
</tr>
<tr>
<td>4398.</td>
<td>3 hrs.</td>
<td>APPLIED EXPERIENCE</td>
</tr>
</tbody>
</table>

**DIRECTED INDIVIDUAL STUDY (DIS)**

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 course work 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**

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**

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.
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 University 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.

Students with a BAS degree 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**

<table>
<thead>
<tr>
<th>A. University Core</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Vocational/Technical Credit</td>
<td>33</td>
</tr>
<tr>
<td>D. Required Courses</td>
<td>18</td>
</tr>
<tr>
<td>E. Designated Electives</td>
<td>9</td>
</tr>
<tr>
<td>F. University Electives</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 (122)</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

**Required Courses (18 semester hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2301</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>COMM 4350</td>
<td>Communication in Organizations</td>
</tr>
<tr>
<td>COMM 4345</td>
<td>Intercultural Communication or COMM 3311 Nonverbal Communication</td>
</tr>
</tbody>
</table>
Liberal Arts

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 3312</td>
<td>Behavior in Organizations</td>
</tr>
<tr>
<td>POLS 3341</td>
<td>Introduction to Public Administration</td>
</tr>
<tr>
<td>SOCI 4315</td>
<td>Complex Organizations</td>
</tr>
</tbody>
</table>

Designated Electives (9 semester hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2302</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>BLAW 3310</td>
<td>Legal Environment of Business</td>
</tr>
<tr>
<td>BLAW 4350</td>
<td>Human Resource Law</td>
</tr>
<tr>
<td>MGMT 3320</td>
<td>Concepts of Human Resource Management</td>
</tr>
<tr>
<td>MGMT 4320</td>
<td>Leadership &amp; Managerial Effectiveness</td>
</tr>
<tr>
<td>MGMT 4330</td>
<td>Business Ethics</td>
</tr>
<tr>
<td>ENGL 3301</td>
<td>Principles of Professional &amp; Report Writing</td>
</tr>
<tr>
<td>COMM 4398</td>
<td>Applied Experience or COMM 4399 Communication Internship</td>
</tr>
<tr>
<td>COMM 3330</td>
<td>Techniques of Persuasion or COMM 3380 Media &amp; Technology</td>
</tr>
</tbody>
</table>

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.

**Degree Requirements**

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Vocational/Technical Credit</td>
<td>33</td>
</tr>
<tr>
<td>D. Required Courses</td>
<td>18</td>
</tr>
<tr>
<td>E. Designated Electives</td>
<td>9</td>
</tr>
<tr>
<td>F. University Electives</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>120 (122)</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

**UCCP 1101/UCCP 1102** First-Year Seminar I, II  2

Required Courses (18 semester hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECED 3311</td>
<td>Developmentally Appropriate Practice in Early Childhood Education</td>
</tr>
<tr>
<td>ECED 4320</td>
<td>The Young Child, Family &amp; Community Resources</td>
</tr>
<tr>
<td>ECED 4340</td>
<td>Communication &amp; Aesthetics</td>
</tr>
<tr>
<td>ECED 4350</td>
<td>Mathematics, Science, &amp; Social Studies in Early Childhood Education</td>
</tr>
<tr>
<td>EDCI 3311</td>
<td>School &amp; Society</td>
</tr>
<tr>
<td>READ 3320</td>
<td>Reading Instruction for Grades EC-4</td>
</tr>
</tbody>
</table>

Designated Electives (9 semester hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIEM 4357</td>
<td>Methods of Teaching English as a Second Language</td>
</tr>
<tr>
<td>EDCI 4321</td>
<td>Instructional Design for Special Populations: Grades EC-4</td>
</tr>
<tr>
<td>SPED 4320</td>
<td>Community-Based Instruction for the Exceptional Child</td>
</tr>
<tr>
<td>READ 4380</td>
<td>Children’s &amp; Adolescent Literature</td>
</tr>
</tbody>
</table>

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

A. University Core
   Sem. Hrs. 45
B. First-Year Seminars (when applicable)*
   (2)
C. Vocational/Technical Credit
   33
D. Required Courses
   21
E. Supporting Coursework
   3
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/UCCP 1102  First-Year Seminar I, II  2

Required Courses (21 hours)
PSYC 2314  Life Span Development Psychology or SOCI 3340 Sociology
           of the Family
PSYC 3342  Cognitive Psychology or PSYC 3363 Abnormal Psychology or
           PSYC 4352  Physiological Psychology
PSYC 4332  Cross Cultural Psychology or SOCI 3312 Race & Ethnic Relations
PSYC 4344  Drug Use and Abuse
SOCW 3301  Introduction to Social Work
SOCW 3310  Approaches to Social Welfare or SOCI/CRIJ 4331 Juvenile Delinquency

Supporting Coursework (3 semester hours)
SOCI 1301  Human Societies or
PSYC 2301  General Psychology; Whichever was not taken to fulfill the University

Core Curriculum Requirement

Criminal Justice
This track is designed for graduates of associate’s programs in law enforcement or corrections.

Degree Requirements

A. University Core
   Sem. Hrs. 45
B. First-Year Seminars (when applicable)*
   (2)
C. Vocational/Technical Credit
   33
D. Supporting Coursework
   18
E. Designated Electives
   9
F. University Electives
   15
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/UCCP 1102  First-Year Seminar I, II  2

Required Courses (18 semester hours)
CRIJ 4331  Juvenile Delinquency or CRIJ 4335 Criminology
CRIJ 4345  Research Methods
CRIJ 3302  Police and Society
CRIJ 3325  Community-Based Corrections or CRIJ 4340 Criminal Investigation
CRIJ 4312  Law and Evidence or CRIJ 4313 Criminal Procedure
CRIJ 4321  American Prisons and Prisoners
Supporting Coursework (9 semester hours)
ENGL 3301 Professional and Report Writing

Digital Information Mapping
This track prepares students for a variety of careers in land surveying, geographic information systems, and hydrographic and digital mapping and will provide classes acceptable by the Texas Board of Professional Land Surveying (TBPLS) for credit toward the requirement to take the state board exam.

Degree Requirements

<table>
<thead>
<tr>
<th></th>
<th>Sem. Hrs.</th>
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*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:
UCCP 1101/UCCP 1102 First-Year Seminar I, II  2

Required Courses (19 semester hours)
GISC 1436 Digital Drafting & Design
GISC 1470 Geospatial Systems
GISC 2438 Geospatial Software Systems I
GISC 2470 Geospatial Plane Measurement I
GISC 3301 Geospatial Systems II

Designated Electives (8 semester hours)
GISC 3325 Geodetic Science
GISC 3420 Geospatial Software Systems II
GISC 3421 Visualization for GIS
GISC 4280 Geospatial Systems Internship

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

<table>
<thead>
<tr>
<th></th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Vocational/ Technical Credit</td>
<td>33</td>
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<tr>
<td>D. Required Courses</td>
<td>20</td>
</tr>
<tr>
<td>E. Designated Electives</td>
<td>7</td>
</tr>
<tr>
<td>F. University Electives</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>120 (122)</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:
UCCP 1101/UCCP 1102 First-Year Seminar I, II  2
**Required Courses (20 semester hours)**
- POLS 334  Introduction to Public Administration
- COMM 4350  Communication in Organizations
- CHEM 4490  Special Topics: Chemistry of Hazardous Materials
- ESCI 3202  Professional Skills
- ESCI 4301  Environmental Regulations
- ESCI 4330  Oil Spill Prevention & Response
- ESCI 4370  Hazardous Waste Operations & Emergency Response

**Designated Electives (7 semester hours)**
- ESCI 4498  Internship in Environmental Science
- GISC 1470  Geospatial Systems I
- 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**

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Vocational/ Technical Credit</td>
<td>33</td>
</tr>
<tr>
<td>D. Required Courses</td>
<td>20</td>
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<tr>
<td>E. Designated Electives</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>105 (107)</td>
</tr>
</tbody>
</table>

*First Year Seminars
First-Year Seminars or Electives
Full-time, first-year students are required to take the following courses:
- UCCP 1101/UCCP 1102  First-Year Seminar I, II  2

**Required Courses (20 semester hours)**
- POLS 3341  Introduction to Public Administration
- COMM 4350  Communication in Organizations
- ESCI 3202  Professional Skills
- ESCI 4301  Environmental Regulations
- ESCI 4320  Environmental Health
- ESCI 4365  Occupational Safety & Accident Prevention
- CHEM 4490  Special Topics: Chemistry of Hazardous Materials

**Designated Electives (7 semester hours)**
- BIOL 2421  Microbiology
- CHEM 4443  Environmental Chemistry
- ESCI 4408  Environmental Microbiology
- GEOL 3443  Environmental Geology
- GISC 1470  Geospatial Systems I
- ESCI 4498  Internship in Environmental Science

**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

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
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<tr>
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<tr>
<td>C. Vocational/ Technical Credit</td>
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<td>D. Required Courses</td>
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<td>E. Designated Electives</td>
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<td>F. University Electives</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>120 (122)</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

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

- UCCP 1101/UCCP 1102  First-Year Seminar I, II  **2**

### Required Courses (18 semester hours)

- ENTC 1304  Engineering Design Graphics
- ENTC 2402  Manufacturing Processes
- ENTC 2418  Introduction to Electronics
- MGMT 3312  Behavior in Organizations
- ENTC 3410  Material Science

### Designated Electives (10 semester hours)

- ENTC 3323  Robotics and Automation
- ENTC 3406  Fluid Mechanics and Fluid Power
- ENTC 3444  Electronic Devices and Circuits
- ENTC 4322  Programmable Logic Controllers
- ENTC 4415  Project Management

### 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

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
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<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Vocational/ Technical Credit</td>
<td>33</td>
</tr>
<tr>
<td>D. Required Courses</td>
<td>18</td>
</tr>
<tr>
<td>E. Designated Electives</td>
<td>9</td>
</tr>
<tr>
<td>F. University Electives</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 (122)</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

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

- UCCP 1101/UCCP 1102  First-Year Seminar I, II  **2**

### Required Courses (18 semester hours)

- COSC 3305  Survey of Computer Security & Societal Issues
- COSC 3307  Computer Information Systems Economics
- COSC 3342  Network Design & Management
- COSC 3360  Human Computer Interfaces
- COSC 4690  Contracted Field Experience in Computer Science
Designated Electives (9 semester hours)
COSC 2390  Introduction to Interactive Design & Programming Concepts
COSC 2470  COBOL Programming
COSC 3324  Object-Oriented Programming
COSC 3336  Introduction to DBMS
COSC 3370  Software Engineering
COSC 3470  Visual Programming Languages
ARTS 3470  Graphic Design I

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. University Core 45
B. First-Year Seminars (when applicable)* (2)
C. Vocational/Technical Credit 33
D. Required Courses 18
E. Designated Electives 9
F. University Electives 15
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/UCCP 1102  First-Year Seminar I, II  2

Required Courses (18 semester hours)
BLAW 3310  Legal Environment of Business
COMM 3330  Techniques of Persuasion
CRIJ 3310  The Judicial Process
CRIJ 4310  Constitutional Law
CRIJ 4312  Law and Evidence
ENGL 3301  Professional & Report Writing

Designated Electives (9 semester hours)
BLAW 4350  Human Resource Law
CRIJ 4311  Criminal Law
POLS 3317  Judicial Politics
POLS 3351  U.S. Constitution & Federalism
SOCI 4310  Sociology of Work & Occupations
PHIL 3322  Modern Philosophy

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. University Core 45
B. First-Year Seminars (when applicable)* (2)
C. Vocational/Technical Credit 33
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 nonmajors 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 or the Bachelor of Fine Arts 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, 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. Courses may not count for both major and minor requirements. Interested students should contact the department minor advisor.

**BA in Art** - Students earning their Bachelor’s Degree in Art will demonstrate:
- 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.

**BFA in Art** - BFA graduates will be able to demonstrate:
- 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.

**BFA-Teaching Certification** - Students earning the Bachelors of Fine Arts degree with Teaching Certification will:
• 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.

BACHELOR OF ARTS DEGREE: MAJOR IN ART

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 course work. 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.

Degree Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
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<tr>
<td>B. First-Year Seminars (when applicable)*</td>
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<td>C. Major Requirements</td>
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<tr>
<td>D. University Electives</td>
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<td>E. Foreign Language Requirements</td>
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<td><strong>Total</strong></td>
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</table>

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102 First-Year Seminar I, II 2

Course Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 1303 Art History Survey I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 1304 Art History Survey II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 1311 Design I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 1312 Design II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 1316 Drawing I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 1317 Drawing II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2311 Design III: Color</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2326 Sculpture I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2346 Ceramics I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2316 Painting I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2333 Printmaking I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2356 Photography I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>From: ARTS 2323 Drawing III</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 3360 Graphic Design I</td>
<td>3 hrs.</td>
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</tbody>
</table>

Art History:

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>From: ARTS 3352 Modern Art 1880-1945</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 3353 Contemporary Art Since 1945</td>
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</tr>
<tr>
<td>From: ARTS 3350 Art of the United States</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 4350 Pre-Columbian Art of Mesoamerica</td>
<td></td>
</tr>
<tr>
<td>ARTS 4352 Modern Art of Mexico</td>
<td></td>
</tr>
<tr>
<td>ARTS 4390 Topics in Art (Art History Topics only)</td>
<td></td>
</tr>
</tbody>
</table>

Art Electives (upper division): 6 hrs.

BACHELOR OF FINE ARTS DEGREE IN ART

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 course work.

Admission to the BFA is by special application. Such application can be made upon completion of 30 semester hours of art course work, and must be made before completion of 48 semester hours of art course work. A portfolio consisting of ten to fifteen works, slides or CD’s of work representing a variety of media must be submitted in addition to the application form. Copies of specific BFA admission policies and instructions for making application to the BFA program are available from the office of the Chair of the Department of Art. Completed BFA applications should be submitted to the office of the Department Chair.

**Degree Requirements**

<table>
<thead>
<tr>
<th>Dept.</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
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<tr>
<td>First-Year Seminars (when applicable)*</td>
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<tr>
<td>Major Requirements</td>
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<tr>
<td>Total</td>
<td>120 (122)</td>
</tr>
</tbody>
</table>

*First Year Seminars

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101/UCCP 1102</td>
<td>2</td>
</tr>
</tbody>
</table>

**Course Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 1303</td>
<td>Art History Survey I</td>
</tr>
<tr>
<td>ARTS 1304</td>
<td>Art History Survey II</td>
</tr>
<tr>
<td>ARTS 1311</td>
<td>Design I</td>
</tr>
<tr>
<td>ARTS 1312</td>
<td>Design II</td>
</tr>
<tr>
<td>ARTS 1316</td>
<td>Drawing I</td>
</tr>
<tr>
<td>ARTS 1317</td>
<td>Drawing II</td>
</tr>
<tr>
<td>ARTS 2311</td>
<td>Design III: Color</td>
</tr>
<tr>
<td>ARTS 2316</td>
<td>Painting I</td>
</tr>
<tr>
<td>ARTS 2323</td>
<td>Drawing III</td>
</tr>
<tr>
<td>ARTS 2326</td>
<td>Sculpture I</td>
</tr>
<tr>
<td>ARTS 2333</td>
<td>Printmaking I</td>
</tr>
<tr>
<td>ARTS 2346</td>
<td>Ceramics I</td>
</tr>
<tr>
<td>ARTS 2356</td>
<td>Photography I</td>
</tr>
<tr>
<td>ARTS 3301</td>
<td>Life Drawing</td>
</tr>
<tr>
<td>ARTS 3302</td>
<td>Intermediate Printmaking</td>
</tr>
<tr>
<td>ARTS 3303</td>
<td>Intermediate Painting</td>
</tr>
<tr>
<td>ARTS 3304</td>
<td>Intermediate Sculpture</td>
</tr>
<tr>
<td>ARTS 3324</td>
<td>Intermediate Ceramics</td>
</tr>
<tr>
<td>ARTS 3360</td>
<td>Graphic Design I</td>
</tr>
<tr>
<td>ARTS 3352</td>
<td>Modern Art, 1880-1945</td>
</tr>
<tr>
<td>ARTS 3353</td>
<td>Contemporary Art Since 1945</td>
</tr>
<tr>
<td>ARTS 3350</td>
<td>Art of the United States</td>
</tr>
<tr>
<td>ARTS 4350</td>
<td>Pre-Columbian Art of Mesoamerica</td>
</tr>
<tr>
<td>ARTS 4352</td>
<td>Modern Art of Mexico</td>
</tr>
<tr>
<td>ARTS 4390</td>
<td>Topics in Art (Art History Topics only)</td>
</tr>
</tbody>
</table>

**Art History:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 3350</td>
<td>Art of the United States</td>
</tr>
</tbody>
</table>

**Art Electives (upper division):**

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.

**BACHELOR OF FINE ARTS LEADING TO TEACHER CERTIFICATION IN ART**  
(Grades Early Childhood – 12)

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 course work.

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 course work, and must be made before completion of 48 semester hours of Art course work. A portfolio consisting of ten to fifteen works, slides or CD’s of work representing a variety of media must be submitted in addition to the application form. Copies of specific admission policies and instructions for making application for the program are available from the office of the Chair of the Department of Art. Completed applications should be submitted to the office of the Department Chair.

**Degree Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
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</tr>
<tr>
<td>D. Professional Development Requirements</td>
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<tr>
<td>E. Teacher Certification Requirements</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>132 (134)</strong></td>
</tr>
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*First Year Seminars

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101/UCCP 1102</td>
<td>2</td>
</tr>
</tbody>
</table>

**Course Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 1303</td>
<td>Art History Survey I</td>
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<tr>
<td>ARTS 1304</td>
<td>Art History Survey II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 1311</td>
<td>Design I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 1312</td>
<td>Design II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 1316</td>
<td>Drawing I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 1317</td>
<td>Drawing II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2311</td>
<td>Design III: Color</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2316</td>
<td>Painting I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2323</td>
<td>Drawing III</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2326</td>
<td>Sculpture I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 3301</td>
<td>Life Drawing</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2333</td>
<td>Printmaking I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 2346</td>
<td>Ceramics I</td>
<td>3 hrs.</td>
</tr>
</tbody>
</table>

(All art course work 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.)

From:
ARTS 3304 Intermediate Sculpture 3 hrs.
ARTS 3324 Intermediate Ceramics

From:
ARTS 3302 Intermediate Printmaking 6 hrs.
ARTS 3303 Intermediate Painting
ARTS 3360 Graphic Design I

Art History:
From:
ARTS 3352 Modern Art, 1880-1945 3 hrs.
ARTS 3353 Contemporary Art Since 1945
From:
ARTS 3350 Art of the United States 3 hrs.
ARTS 4350 Pre-Columbian Art of Mesoamerica
ARTS 4352 Modern Art of Mexico
ARTS 4390 Topics in Art (Art History topics only)

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.

The department is currently working on revisions of the degree plan for the BFA leading to teacher certification. Updated information will be posted online.

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 IN STUDIO ART

21 hrs.

Lower Division

ARTS 1316 Drawing I 3 hrs.
From: ARTS 1311 Design I 3 hrs.
ARTS 1312 Design II

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
ARTS 2316 Painting I
ARTS 2323 Drawing III
ARTS 2326 Sculpture
ARTS 2333 Printmaking I
ARTS 2346 Ceramics I
ARTS 2356 Photography I
ARTS 2361 Typography
ARTS 2367 Watercolor
ARTS 3301  Life Drawing
ARTS 3302  Intermediate Printmaking
ARTS 3303  Intermediate Painting
ARTS 3304  Intermediate Sculpture
ARTS 3324  Intermediate Ceramics
ARTS 3360  Graphic Design I
ARTS 3361  Graphic Design II
ARTS 3362  Interactive Design
ARTS 3365  Intermediate Photography
ARTS 4301  Advanced Drawing
ARTS 4302  Advanced Printmaking
ARTS 4303  Advanced Painting
ARTS 4324  Advanced Ceramics
ARTS 4361  Graphic Design III
ARTS 4362  Portfolio and Professional Practices
ARTS 4365  Advanced Photography
ARTS 4390  Topics in Art
ARTS 4396  Directed Individual Study

MINOR IN ART HISTORY

18 hrs.

Lower Division
ARTS 1303  Art History Survey I  3 hrs.
ARTS 1304  Art History Survey II  3 hrs.

Upper Division—Select four courses from:
ARTS 3350  Art of the United States  3 hrs.
ARTS 3352  Modern Art 1880-1945  3 hrs.
ARTS 3353  Contemporary Art, 1945-Present  3 hrs.
ARTS 4350  Pre-Columbian Art of Mesoamerica  3 hrs.
ARTS 4352  Modern Art of Mexico  3 hrs.
ARTS 4390  Topics in Art (Art History topics only)  3 hrs.

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Communication

The focus of the program in Communication is to enhance the student’s knowledge and practical skills in various areas of human communication, media, and technical production. Core course work 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 or Media Studies. 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, video, television, and print, as well as opportunities to acquire basic writing and production skills. It is critical for all Communication majors to meet with their academic advisor prior to registering each semester.

MAJOR IN COMMUNICATION

Students graduating with a BA in Communication will be able to:
• 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

<table>
<thead>
<tr>
<th></th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
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<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>36</td>
</tr>
<tr>
<td>D. University Electives</td>
<td>31-33</td>
</tr>
<tr>
<td>E. Foreign Language Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>120</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:
UCCP 1101/UCCP 1102 First-Year Seminar I, II 2

Communication Core Courses (12 semester hours, required for all majors)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1307</td>
<td>Media and Society</td>
</tr>
<tr>
<td>COMM 1370</td>
<td>Introduction to Communication</td>
</tr>
<tr>
<td>COMM 3310</td>
<td>Communication Theory</td>
</tr>
<tr>
<td>COMM 4395</td>
<td>Legal and Ethical Issues in Communictions</td>
</tr>
</tbody>
</table>

Communication Studies Emphasis (24 semester hours)

Communication Studies Requirements:
(15 semester hours, required for students in the Communication Studies Emphasis)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1318</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>COMM 2333</td>
<td>Small Group Communication</td>
</tr>
<tr>
<td>COMM 3330</td>
<td>Persuasion</td>
</tr>
<tr>
<td>COMM 3311</td>
<td>Nonverbal Communication</td>
</tr>
<tr>
<td>COMM 4345</td>
<td>Intercultural Communication</td>
</tr>
</tbody>
</table>

Communication Studies Electives:
(9 semester hours, select three of the following courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 2350</td>
<td>Media Writing and Performance</td>
</tr>
<tr>
<td>COMM 2366</td>
<td>Introduction to Film Art</td>
</tr>
<tr>
<td>COMM 3301</td>
<td>Television Criticism</td>
</tr>
</tbody>
</table>
COMM 3302  Film History
COMM 3312  Newswriting for Television, Radio, and the Internet
COMM 3313  Introduction to Video Production
COMM 3314  Television Production
COMM 3315  Video Editing
COMM 3335  UIL Debate and Speech
COMM 3340  Public Relations Techniques
COMM 3351  Screen Comedy
COMM 3360  Screenplay Writing
COMM 3380  New Media and Communication
COMM 4310  Advanced Digital Film Making
COMM 4311  Documentary Film
COMM 4314  Gender Communication
COMM 4330  Public Relations Cases and Strategies
COMM 4340  Advertising Criticism
COMM 4350  Communication in Organizations
COMM 4390  Topics in Communication
COMM 4396  Directed Individual Study*
COMM 4398  Applied Experience **
COMM 4399  Communication Internship**

Only one of the following options can count toward the Communication Studies Electives:
- COMM 1342  Voice & Diction
- COMM 4323  Oral Interpretation of Children’s Literature

*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 (24 semester hours)

Media Studies Requirements:
(15 semester hours, required for students in the Media Studies Emphasis)
- COMM 2366  Introduction to Film Art
- COMM 3301  Television Criticism
- COMM 3380  New Media and Communication

Select one of the following courses:
- COMM 2350  Media Writing and Performance
- COMM 3312  Newswriting for Television, Radio, and the Internet, or
- COMM 3360  Screenplay Writing

Select one of the following courses:
- COMM 3313  Introduction to Video Production, or
- COMM 3314  Television Production

Media Studies Electives:
(9 semester hours, select three of the following courses)
- COMM 1318  Interpersonal Communication
- COMM 2333  Small Group Communication
- COMM 2350  Media Writing and Performance
- COMM 3302  Film History
- COMM 3311  Nonverbal Communication
- COMM 3312  Newswriting for Television, Radio, and the Internet
- COMM 3313  Introduction to Video Production
- COMM 3314  Television Production
COMM 3315  Video Editing
COMM 3330  Persuasion
COMM 3335  UIL Debate and Speech
COMM 3340  Public Relations Techniques
COMM 3351  Screen Comedy
COMM 3360  Screenplay Writing
COMM 4310  Advanced Digital Film Making
COMM 4311  Documentary Film
COMM 4314  Gender Communication
COMM 4330  Public Relations Cases and Strategies
COMM 4340  Advertising Criticism
COMM 4345  Intercultural Communication
COMM 4350  Communication in Organizations
COMM 4390  Topics in Communication
COMM 4396  Directed Individual Study*
COMM 4398  Applied Experience**
COMM 4399  Communication Internship**

Only one of the following options can count toward the Media Studies Emphasis:
   COMM 1342  Voice & Diction
   COMM 4371  Acting for the Camera

*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.

MINOR IN COMMUNICATION

The minor in Communication consists of 18 semester hours of Communication course work. Four courses are required: COMM 1307: Media and Society, COMM 1370: Introduction to Communication, COMM 3310: Communication Theory, and COMM 4395: Legal and Moral Issues in Communication.

Select the remaining two courses from the following electives:
   COMM 3301  Television Criticism, or
   COMM 3302  Film History, or
   COMM 3311  Nonverbal Communication, or
   COMM 3312  Newswriting for Television, Radio, and the Internet, or
   COMM 3313  Introduction to Video Production, or
   COMM 3314  Television Production, or
   COMM 3330  Persuasion, or
   COMM 3335  UIL Debate and Speech, or
   COMM 3340  Public Relations Techniques, or
   COMM 3351  Screen Comedy, or
   COMM 3360  Screenplay Writing, or
   COMM 3380  New Media and Communication, or
   COMM 4310  Advanced Digital Film Making, or
   COMM 4311  Documentary Film, or
   COMM 4314  Gender Communication, or
   COMM 4330  Public Relations Cases and Strategies, or
   COMM 4340  Advertising Criticism, or
   COMM 4345  Intercultural Communication, or
   COMM 4350  Communication in Organizations, or
   COMM 4390  Topics in Communication
TEACHER CERTIFICATION IN SPEECH COMMUNICATION

Requirements for the secondary certification plan in Speech Communication are as follows:

**Degree Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>30</td>
</tr>
<tr>
<td>D. Professional Development</td>
<td>24</td>
</tr>
<tr>
<td>E. Teacher Certification Requirements</td>
<td>3</td>
</tr>
<tr>
<td>F. University Electives</td>
<td>10-12</td>
</tr>
<tr>
<td>G. Foreign Language Requirements</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>120</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102 First-Year Seminar I, II  2

**Required Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1307</td>
<td>Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMM 1318</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>[common course SPCH 1318]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 2333</td>
<td>Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>[common course SPCH 2333]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 3301</td>
<td>Television Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMM 3310</td>
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</tr>
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</tr>
<tr>
<td>COMM 3330</td>
<td>Persuasion</td>
<td>3</td>
</tr>
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<td>COMM 3335</td>
<td>UIL Debate and Speech</td>
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</tr>
<tr>
<td>COMM 4395</td>
<td>Legal and Ethical Issues in Communication</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

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.

**UNDERGRADUATE COURSES**

All course descriptions are located in one section near the back of the catalog.
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/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.

Bachelor of Science in Criminal Justice graduates will be able to:

- 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 6 hours are also required. Criminal Justice majors are encouraged to take MATH 1442 to satisfy the Mathematics University Core Curriculum 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.

MAJOR IN CRIMINAL JUSTICE

Students who major in Criminal Justice must complete the following course work.

Degree Requirements

| A. University Core | 45 |
| B. First-Year Seminars (when applicable)* | (2) |
| C. Major Requirements** | 34 |
| 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/UCCP 1102 First-Year Seminar I, II 2

**Hours in the major include 1 hour from MATH 1442

Criminal Justice Core: (18 sem. hrs.)
- Systems* 3 hrs
  - From: CRIJ 1301 or CRIJ 1313
- Theoretical Perspectives 3 hrs
  - From: CRIJ 4331 or CRIJ 4335
- Corrections 3 hrs
  - From: CRIJ 3325, CRIJ 4320, or CRIJ 4321,
- Courts 3 hrs
  - From: CRIJ 3310 or CRIJ 4313
- Law Enforcement 3 hrs
  - From: CRIJ 3302 or CRIJ 4351,
- Research Methods 3 hrs
  - CRIJ 4345

*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 3 hrs
- MATH 1442 3 hrs

Students may choose to concentrate their Criminal Justice Electives in a subfield as suggested by the following lists.

Theoretical Perspectives: CRIJ 3315, CRIJ 4331, CRIJ 4335, CRIJ 4322
Corrections: CRIJ 3320, CRIJ 3325, CRIJ 4320, CRIJ 4321, CRIJ 4324
Courts: CRIJ 3310, CRIJ 4310, CRIJ 4311, CRIJ 4312, CRIJ 4313
Law Enforcement: CRIJ 2328, CRIJ 3302, CRIJ 3340, CRIJ 4340, CRIJ 4351

Students may also choose Criminal Justice Electives and from among courses not categorized in the subfields including CRIJ3350, CRIJ4360, CRIJ 4390, CRIJ 4396, and CRIJ4398.

MINOR IN CRIMINAL JUSTICE
The minor in Criminal Justice consists of 18 semester hours of Criminal Justice course work, 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 * 3 hrs
  - From: CRIJ 1301, CRIJ 1313, CRIJ 3350
- Theoretical Perspectives 3 hrs
  - From: CRIJ 3315, CRIJ 4331, CRIJ 4335, CRIJ 4322
Corrections: 3 hrs
From: CRIJ 4320, CRIJ 4321, CRIJ 4390**

Courts: 3 hrs
From: CRIJ 3310, CRIJ 4311, CRIJ 4312, CRIJ 4313, CRIJ 4390**

Law Enforcement: 3 hrs
From: CRIJ 3302, CRIJ 3340, CRIJ 4390**

Elective: 3 sem. hrs.*

*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.

UNDERGRADUATE COURSES
All course descriptions are located in one section near the back of the catalog.

Economics
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.

The Bachelor of Arts in Economics graduates will be able to:
• 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.

MAJOR IN ECONOMICS
Students choosing to major in Economics must complete the following course work.

Degree Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
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<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
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</tr>
<tr>
<td>D. University Electives</td>
<td>31-33</td>
</tr>
<tr>
<td>E. Foreign Language Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>120</td>
</tr>
</tbody>
</table>
**First Year Seminars**

First-Year Seminars or Electives

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

- **UCCP 1101/UCCP 1102**  
  First-Year Seminar I, II  
  **2**

**Economics Core:** (21 sem. hrs.)

- **ECON 2301**  Principles of Macroeconomics
- **ECON 2302**  Principles of Microeconomics
- **ECON 3310**  Intermediate Macroeconomics
- **ECON 3311**  Intermediate Microeconomics
- **ECON 3312**  Money and Banking
- **ECON 3315**  International Economics Issues
- **ECON 4388**  History of Economic Thought

Three Economics (or related) Electives: (9 sem. hrs.)

- **ECON 3316**  Environmental Economics
- **ECON 3322**  Managerial Economics
- **ECON 4310**  Introduction to Econometrics
- **ECON 3320**  Public Finance

Two Other Electives (6 sem. hrs.)

- **SOCI 3315**  Population
- **SOCI 4314**  Social Class and Inequality
- **POLs 3342**  Introduction to Public Policy
- **HIST 4325**  U.S. Business and Labor History

**UNDERGRADUATE COURSES**

All course descriptions are located in one section near the
English

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.

B.A. in English graduates will be able to:

- Analyze written texts in English from a variety of historical, social, and theoretical perspectives.
- Understand and use English effectively in written texts.
- Compose texts in a variety of genres.
- Find and evaluate primary and secondary sources for research.
- Demonstrate written and analytical skills necessary for entry into post-Baccalaureate degree programs, and careers that require language and writing expertise.

Emphasizing critical and creative writing and literary interpretation, English plays an important role in the university core curriculum. The First-Year Writing Program (including ENGL 1301 Freshman Composition I and ENGL 1302 Freshman 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 1302, students may satisfy the core curriculum requirement in literature by taking one of the following: ENGL 2332, 2333, 2334, 2335 or SPAN 3307, 3308, 3309, 3310.

In addition to these core courses, 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.

MAJOR IN ENGLISH

Beyond the English requirements of the university core, the English major entails a minimum of 42 semester hours of English course work, at least 30 of which must be at the upper-division level. In addition to 3 hours of core curriculum literature, sophomores desiring the major in English should take ENGL 2370 Introduction to English Studies, the introductory course to the major. In the last year of course work, 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**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
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</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>42</td>
</tr>
<tr>
<td>D. Supporting Coursework</td>
<td>3</td>
</tr>
<tr>
<td>E. University Electives</td>
<td>22-24</td>
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<tr>
<td>F. Foreign Language Requirements</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives
Full-time, first-year students are required to take the following courses:
UCCP 1101/UCCP 1102  First-Year Seminar I, II  2

**University Core Requirements:**
- ENGL 1301, 1302  Composition I and II  (6 hrs)
- 3 hrs. from ENGL 2332, 2333, 2334, 2335 or SPAN 3307, 3308, 3309, 3310  (3 hrs)

**English Program Requirements:**
- ENGL 2370  Introduction to English Studies  3 hrs
- ENGL 3339  Introduction to Linguistics  3 hrs
- ENGL 4304  Shakespeare: Texts and Contexts  3 hrs
- ENGL 4351  Senior Capstone: 20th and 21st Century Literature and Writing  3 hrs
- ENGL 4380  Critical Approaches to Literature and Culture  3 hrs

In addition to the requirements listed above, students will also select courses from the following clusters:
- 3 hrs from Rhetorics, Language and Cultural Discourse  3 hrs
  - ENGL 3366  Language in Society
  - ENGL 3368  Community Literacy and Service Learning
  - ENGL 3369  Topics in Linguistics
  - ENGL 3379  Writing in Computer-Networked Environments
  - ENGL 3380  Advanced Writing in Computer-Networked Environments
  - ENGL 4345  Rhetoric, Literature, & Writing
- 6 hrs from Conventions and Genres  6 hrs
  - ENGL 3320  The Bible as Literature
  - ENGL 3321  Film and Literature
  - ENGL 3323  Literary Perspectives on Young Adult Fiction and Poetry
  - ENGL 3348  Drama
  - ENGL 3349  Themes and Forms of Poetry
  - ENGL 3353  The Short Story
  - ENGL 4340  The Novel
  - ENGL 4350  Studies in Poetics and Poetry of the 19th to 21st Centuries
  - ENGL 4354  Science Fiction
- 6 hrs from 3000-level Literary History  6 hrs
  - ENGL 3341  Literature of the English Renaissance
  - ENGL 3342  British Literature before the Renaissance
  - ENGL 3345  British Literature of the 19th through 21st Centuries
  - ENGL 3354  American Literature: To 1865
  - ENGL 3355  American Literature: Late 19th and Early 20th Century
  - ENGL 3356  American Literature: Since 1945
- 6 hrs from 4000-level Literary History  6 hrs
  - ENGL 4311  Literature of the English Romantic Period
  - ENGL 4312  Literature of the English Victorian Period
  - ENGL 4313  British Literature of the 20th And 21st Centuries
  - ENGL 4360  Women’s Literature
  - ENGL 4361  Ethnic American Literature
  - ENGL 4305  Major Authors
  - ENGL 4390  Topics in English
- 6 hrs from Invention  6 hrs
  - ENGL 3301  Principles of Professional and Report Writing
  - ENGL 3357  Reading and Writing Autobiography
ENGL 3361 Strategies and Genres of Advanced Writing
ENGL 3362 Techniques of Creative Writing
ENGL 3375 Writing in the Professions
ENGL 3378 Desktop Publishing
ENGL 4320 Professional Writing Workshop
ENGL 4321 Grant Writing
ENGL 4330 Creative Writing Workshop I
ENGL 4335 Creative Writing Workshop II

Total beyond University Core 42 hrs
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).

TEACHER CERTIFICATION PROGRAMS

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 course work. 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 course work (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 an official permit to take the TExES examination from the English TExES coordinator. This permit is taken to the College of Education where students receive the barcode needed to register for the TExES examination.

In addition to meeting the criteria above, students should 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 courses deficient 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.

B.A. in English, leading to secondary certification in English Language Arts (Grades 8-12)

Degree Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>39</td>
</tr>
<tr>
<td>D. Professional Development</td>
<td>24</td>
</tr>
<tr>
<td>E. Teacher Certification Requirements</td>
<td>9</td>
</tr>
<tr>
<td>F. Foreign Language Requirements</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

*First Year Seminars
First-Year Seminars or Electives
Full-time, first-year students are required to take the following courses:
UCCP 1101/UCCP 1102 First-Year Seminar I, II 2

University Core Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1301, 1302 Composition I and II</td>
<td>(6 hrs)</td>
</tr>
<tr>
<td>3 hrs. from ENGL 2332, 2333, 2334, 2335 or SPAN 3307, 3308, 3309, 3310</td>
<td>(3 hrs)</td>
</tr>
</tbody>
</table>

161
English Program Requirements:

ENGL 2370  Introduction to English Studies 3 hrs
ENGL 3340  Grammar 3 hrs
ENGL 3360  Current Approaches to Composition and Literature 3 hrs
ENGL 3361  Strategies & Genres of Advanced Writing 3 hrs
ENGL 4304  Shakespeare: Texts and Contexts 3 hrs
ENGL 4351  Senior Capstone: 20th and 21st Century Literature and Writing 3 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
- ENGL 3321  Film and Literature
- ENGL 3323  Literary Perspectives on Young Adult Fiction and Poetry
- ENGL 3348  Drama
- ENGL 3349  Themes and Forms of Poetry
- ENGL 3353  The Short Story
- ENGL 4340  The Novel
- ENGL 4350  Studies in Poetics and Poetry of the 19th to 21st Centuries
- ENGL 4354  Science Fiction

6 hrs from 3000-level Literary History
- 3-hrs from:
  - ENGL 3341  Literature of the English Renaissance
  - ENGL 3342  British Literature before the Renaissance
  - ENGL 3345  British Literature of the 19th through 21st Centuries
- 3-hrs from:
  - ENGL 3354  American Literature: To 1865
  - ENGL 3355  American Literature: Late 19th and Early 20th Century
  - ENGL 3356  American Literature: Since 1945

6 hrs from 4000-level Literary History
- ENGL 4311  Literature of the English Romantic Period
- ENGL 4312  Literature of the English Victorian Period
- ENGL 4313  British Literature of the 20th And 21st Centuries
- ENGL 4360  Women’s Literature
- ENGL 4361  Ethnic American Literature
- ENGL 4390  Topics in English

3 hrs from Invention
- ENGL 3301  Principles of Professional & Report Writing
- ENGL 3357  Reading and Writing Autobiography
- ENGL 3361  Strategies and Genres of Advanced Writing
- ENGL 3362  Techniques of Creative Writing
- ENGL 3375  Writing in the Professions
- ENGL 3378  Desktop Publishing
- ENGL 3379  Writing in Computer-Networked Environments
- ENGL 3380  Advanced Writing in Computer-Networked Environments
- ENGL 4321  Grant Writing
- ENGL 4330  Creative Writing Workshop I
- ENGL 4335  Creative Writing Workshop II
- ENGL 4345  Rhetoric, Literature, and Writing
3 Elective hrs from
  ENGL 3366  Language in Society
  ENGL 3368  Community Literacy and Service Learning
  ENGL 3369  Topics in Linguistics
  ENGL 4380  Critical Approaches to Literature and Culture
Total English hours above university core  39 hrs

Other Certification Coursework Requirements:
  READ 3351  Diagnosis and Correction of Reading Problems  3 hrs
  READ 3353  Content Area Reading for Secondary Students  3 hrs
  READ 3355  Teaching Reading in the Secondary School  3 hrs
          Total beyond University Core     48 hrs

Students seeking teacher certification in English Language Arts (8-12) must take the
courses listed above in addition to the university core curriculum and all professional
development courses. Please see the College of Education for the list of professional de-
velopment requirements.

B.A. in English, leading to Certification in English Language Arts (Grades 4-8)

Degree Requirements

<table>
<thead>
<tr>
<th>A. University Core</th>
<th>45</th>
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</thead>
<tbody>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
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<td>D. Professional Development</td>
<td>24</td>
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<td>E. Teacher Certification Requirements</td>
<td>18</td>
</tr>
<tr>
<td>F. Foreign Language Requirements</td>
<td>6</td>
</tr>
</tbody>
</table>
          Total  123 (125) |

*First Year Seminars
  First-Year Seminars or Electives

Full-time, first-year students are required to take the following courses:
  UCCP 1101/UCCP 1102  First-Year Seminar I, II  2

University Core Requirements:
  ENGL 1301, 1302  Composition I and II  (6 hrs)
  3 hrs. from ENGL 2332, 2333, 2334, 2335 or SPAN 3307, 3308, 3309, 3310  (3 hrs)

English Program Requirements:
  ENGL 2370  Introduction to English Studies  3 hrs
  ENGL 3340  Grammar  3 hrs
  ENGL 3360  Current Approaches to Composition and Literature  3 hrs
  ENGL 4304  Shakespeare: Texts and Contexts  3 hrs
  ENGL 4351  Senior Capstone: 20th and 21st Century Literature and Writing  3 hrs
  ENGL 4370  Oral Interpretation of Children’s Literature  3 hrs

In addition to the requirements listed above, students will also select courses from the
following clusters:
  3 hrs from
    ENGL 3320  The Bible as Literature
    ENGL 3321  Film and Literature
    ENGL 3323  Literary Perspectives on Young Adult Fiction and Poetry
    ENGL 3348  Drama
    ENGL 3349  Themes and Forms of Poetry
    ENGL 3353  The Short Story
ENGL 4340  The Novel
ENGL 4350  Studies in Poetics and Poetry of the 19th to 21st Centuries
ENGL 4354  Science Fiction

3 hrs from
ENGL 3341  Literature of the English Renaissance
ENGL 3342  British Literature before the Renaissance
ENGL 3345  British Literature of the 19th through 21st Centuries  3 hrs

3 hrs from
ENGL 3354  American Literature: To 1865
ENGL 3355  American Literature: Late 19th and Early 20th Centuries
ENGL 3356  American Literature: Since 1945  3 hrs

3 hrs from
ENGL 3361  Advanced Composition
ENGL 3368  Community Literacy and Service Learning
ENGL 3379  Writing in Computer-Networked Environments  3 hrs

Total English hours beyond University Core  30 hrs

Other Certification Coursework Requirements:
READ 3321  Reading Instruction for Grades 4-8  3 hrs
READ 3351  Diagnosis and Correction of Reading Problems  3 hrs
SMTE 1350  Fundamentals of Mathematics I  3 hrs
SMTE 1351  Fundamentals of Mathematics II  3 hrs
SMTE 3315  Foundational Approaches to the Physical Sciences  3 hrs
SMTE 3316  Foundational Approaches to the Life Sciences  3 hrs

Total above university core  48 hrs

Students seeking teacher certification in English Language Arts (4-8) must take the courses listed above in addition to the university core curriculum and all professional development courses. Please see the College of Education for the list of professional development requirements.

*MINOR IN ENGLISH

The minor in English (literature) consists of 18 semester hours of English course work 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.

*MINOR IN CREATIVEWRITING

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 Composition I (ENGL 1301), Composition II (ENGL 1302), and core curriculum literature (ENGL 2332, 2333, 2334, 2335 or SPAN 3307, 3308, 3309, 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 course work 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 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 (9-12 semester hours)
ENGL 2370  Introduction to English Studies (for the non-English major; majors make take an additional course in either studies in Genre or Contemporary Literature.)
ENGL 3362  Techniques of Creative Writing
ENGL 4330  Creative Writing Workshop I
ENGL 4335  Creative Writing Workshop II

Studies in Genre
(Choose one from the following courses) (3 semester hours)
ENGL 3323  Literary Perspectives on Young Adult Fiction and Poetry
ENGL 3349  Themes and Forms of Poetry
ENGL 3353  The Short Story
ENGL 3357  Reading and Writing Autobiography
ENGL 4340  The Novel
ENGL 4350  Studies in Poetics and Poetry
MXAS 4390  Chicano/a Poetry

Studies in Contemporary Literature
(Choose one from the following courses) (3 semester hours)
ENGL 3356  American Literature: Since 1945
ENGL 4354  Science Fiction
ENGL 4360  Women’s Literature
ENGL 4361  Ethnic American Literature
MXAS 3311  Mexican American Literature

*MINOR IN JOURNALISM
See description in the alphabetized program list for the College of Liberal Arts.

*MINOR IN TECHNICAL AND PROFESSIONAL WRITING
See description in the alphabetized program list for the College of Liberal Arts.

*Students earning a minor in one of these fields may not use the same courses to satisfy both major and minor requirements.

RECOMMENDED COURSES FOR ESL TExES EXAM
Applied linguistics courses ENGL 3366 and ENGL 3368 are recommended for students preparing to take the ESL TExES exam. Students should speak with the instructor of these courses for further information regarding ESL endorsement.

UNDERGRADUATE COURSES
All course descriptions are located in one section near the back of the catalog.
European Union Studies

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 course work and research opportunities.

Minor in European Union Studies

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 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.

Required Courses:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Cr. Hrs.</th>
<th>Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 4320</td>
<td>3</td>
<td>The Politics of the European Union</td>
<td></td>
</tr>
<tr>
<td>POLS 3321</td>
<td>3</td>
<td>Comparative Politics</td>
<td></td>
</tr>
<tr>
<td>POLS 3331</td>
<td>3</td>
<td>International Relations</td>
<td></td>
</tr>
<tr>
<td>ECON 3325</td>
<td>3</td>
<td>Economics of European Integration</td>
<td>ECON 2301/02</td>
</tr>
<tr>
<td>ECON 3315</td>
<td>3</td>
<td>International Economic Issues</td>
<td>ECON 2301</td>
</tr>
<tr>
<td>ECON 2302</td>
<td>3</td>
<td>Microeconomics Principles</td>
<td></td>
</tr>
</tbody>
</table>

History

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, 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 course work, 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 University core curriculum. The College of Liberal Arts also requires students in history to take at least 6 hours of a second language.
At the completion of the History major, the graduate is able to:
- 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.

REQUIREMENTS FOR THE HISTORY MAJOR

**Degree Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>33</td>
</tr>
<tr>
<td>D. Electives</td>
<td>34-36</td>
</tr>
<tr>
<td>E. Foreign Language Requirements</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>120</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101/UCCP 1102</td>
<td>First-Year Seminar I, II</td>
<td>2</td>
</tr>
</tbody>
</table>

**Semester Hours**

**Lower Division**

*HIST 1301 U.S. History to 1865 (3 hrs.)
*HIST 1302 U.S. History Since 1865 (3 hrs.)
HIST 2311 Western Civilization I 3 hrs.
HIST 2312 Western Civilization II 3 hrs.

**Upper Division**

HIST 3302 Latin American History 3 hrs.

3 hours from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 3315</td>
<td>Europe 1750-1815</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3317</td>
<td>Europe 1815-1914</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3319</td>
<td>Europe 1914 to the Present</td>
<td></td>
</tr>
<tr>
<td>HIST 4340</td>
<td>European Women’s History</td>
<td></td>
</tr>
<tr>
<td>HIST 4342</td>
<td>The Holocaust</td>
<td></td>
</tr>
<tr>
<td>HIST 4345</td>
<td>European Thought and Culture, 1750-Present</td>
<td></td>
</tr>
</tbody>
</table>

3 hours from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 3320</td>
<td>Colonial &amp; Revolutionary U.S.</td>
<td></td>
</tr>
<tr>
<td>HIST 3321</td>
<td>The Early American Republic</td>
<td></td>
</tr>
<tr>
<td>HIST 3323</td>
<td>Civil War and Reconstruction</td>
<td></td>
</tr>
<tr>
<td>HIST 3324</td>
<td>U.S. Gilded Age and Progressive Era</td>
<td></td>
</tr>
<tr>
<td>HIST 3325</td>
<td>Emergence of Modern U.S.</td>
<td></td>
</tr>
<tr>
<td>HIST 3326</td>
<td>U.S. Since 2nd World War</td>
<td></td>
</tr>
<tr>
<td>HIST 3335</td>
<td>The U.S. Urban Experience</td>
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</tr>
<tr>
<td>HIST 4320</td>
<td>U.S. Cultural Experience</td>
<td></td>
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<tr>
<td>HIST 4325</td>
<td>Business &amp; Labor History</td>
<td></td>
</tr>
<tr>
<td>HIST 4327</td>
<td>U.S. Modern Popular Culture</td>
<td></td>
</tr>
<tr>
<td>HIST 4335</td>
<td>The Military and United States History</td>
<td></td>
</tr>
<tr>
<td>HIST 4336</td>
<td>Mexican American History</td>
<td></td>
</tr>
<tr>
<td>HIST 4337</td>
<td>United States Women’s History</td>
<td></td>
</tr>
<tr>
<td>HIST 3331</td>
<td>Texas History</td>
<td></td>
</tr>
<tr>
<td>HIST 3340</td>
<td>Modern East Asia</td>
<td></td>
</tr>
</tbody>
</table>
**Liberal Arts**

3 hours from:
- HIST 4373  Mexico: The Colonial Period
- HIST 4374  Mexico: The National Period
- HIST 4385  Historical Research and Writing 3 hrs.

*Included in the University Core Curriculum

History majors must also take 6 hours of electives from the following two sets of courses:

3 hours from:  3 hrs.
- HIST 4336  Mexican American History
- POLS 4325  Politics in Latin America
- MXAS 3301  Introduction to Mexican American Studies
- MXAS 3311  Mexican American Literature
- MXAS 4390  Topics in Mexican American Studies
- ENGL 4361  Ethnic American Literature
- SOCI 3312  Racial and Ethnic Relations
- SOCI 3321  Mexican American Women
- SOCI 4312  Social Class and Inequality

3 hours from:  3 hrs.
- HIST 4337  United States Women’s History
- HIST 4340  European Women’s History
- POLS 3311  Women and Politics
- ENGL 4360  Women’s Literature
- SOCI 3320  Sociology of Gender
- MXAS 4390  Topics in Mexican American Studies (with approval of dept.)

Total 33

Students planning to pursue graduate study should elect additional courses which help achieve proficiency in foreign languages and/or statistics.

**MINOR IN HISTORY**

**Semester Hours**

**Lower Division**
- HIST 1301  U.S. History to 1865 (3 hrs.)
- HIST 1302  U.S. History Since 1865 (3 hrs.)
- HIST 2311  Western Civilization I  3 hrs.
- HIST 2312  Western Civilization II  3 hrs.

**Upper Division**

3 hours from:  3 hrs.
- HIST 3320  Colonial & Revolutionary U.S.
- HIST 3321  The Early American Republic
- HIST 3323  Civil War and Reconstruction
- HIST 3324  U.S. Gilded Age and Progressive Era
- HIST 3325  Emergence of Modern U.S.
- HIST 3326  U.S. Since 2nd World War
- HIST 3331  Texas History
- HIST 3335  The U.S. Urban Experience
- HIST 4320  U.S. Cultural Experience
- HIST 4327  U.S. Modern Popular Culture
- HIST 4335  The Military and United States History
- HIST 4336  Mexican American History
- HIST 4337  United States Women’s History

3 hours from:  3 hrs.
- HIST 4373  Mexico: The Colonial Period
- HIST 4374  Mexico: The National Period
3 hours from:  3 hrs.
HIST 3315  Europe 1750-1815
HIST 3317  Europe 1815-1914
HIST 3319  Europe 1914 to Present
HIST 4340  European Women’s History
HIST 4342  The Holocaust
HIST 4345  European Thought and Culture, 1750-Present
HIST 3302  Latin American History 3 hrs.

*Included in the University Core Curriculum

**TEACHER CERTIFICATION PROGRAMS WITH A HISTORY MAJOR**

**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 course work. 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 course work (lower and upper level).
2. Have a 2.75 GPA on all history course work (lower and upper level).
3. Have completed one History TExES Review Workshop. This workshop must be taken in the semester prior to the term the student takes the TExES.
4. Pass the History TExES preview examination with a score of 70 or better.
5. Provide official permit with signature of History program coordinator or designee.

In addition to meeting the criteria above, students should take a second History TExES Review Workshop in the semester that they take 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 university core curriculum 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 8-12)**

**Degree Requirements**

| A. University Core | 45 |  |
|--------------------|----|  |
| 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 |  |

**Total** 120 (122)

*First Year Seminars

First-Year Seminars or Electives

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2311</td>
<td>Western Civilization I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 2312</td>
<td>Western Civilization II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>HIST 3302</td>
<td>Latin American History</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>3 hours from:</td>
<td></td>
</tr>
<tr>
<td>HIST 3315</td>
<td>Europe 1750-1815</td>
<td>3 hrs</td>
</tr>
<tr>
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</tr>
<tr>
<td>HIST 4342</td>
<td>The Holocaust</td>
<td></td>
</tr>
<tr>
<td>HIST 4345</td>
<td>European Thought and Culture, 1750-Present</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 hours from:</td>
<td>6 hrs</td>
</tr>
<tr>
<td>HIST 3320</td>
<td>Colonial &amp; Revolutionary U.S.</td>
<td></td>
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<tr>
<td>HIST 3321</td>
<td>The Early American Republic</td>
<td></td>
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<tr>
<td>HIST 3323</td>
<td>Civil War and Reconstruction</td>
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<tr>
<td>HIST 3324</td>
<td>U.S. Gilded Age and Progressive Era</td>
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<tr>
<td>HIST 3325</td>
<td>Emergence of Modern U.S.</td>
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<tr>
<td>HIST 3326</td>
<td>U.S. Since 2nd World War</td>
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<tr>
<td>HIST 3335</td>
<td>The U.S. Urban Experience</td>
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<td>HIST 4320</td>
<td>U.S. Cultural Experience</td>
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<td>HIST 4336</td>
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<td>HIST 4337</td>
<td>United States Women’s History</td>
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</tr>
<tr>
<td>HIST 3331</td>
<td>Texas History</td>
<td></td>
</tr>
<tr>
<td>HIST 3340</td>
<td>Modern East Asia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours from:</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HIST 4373</td>
<td>Mexico: The Colonial Period</td>
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</tr>
<tr>
<td>HIST 4374</td>
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</tr>
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<td>HIST 4385</td>
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<tr>
<td></td>
<td>History Electives (3000-4000 level)</td>
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<tr>
<td></td>
<td>3 hours from:</td>
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</tr>
<tr>
<td>HIST 4336</td>
<td>Mexican American History</td>
<td></td>
</tr>
<tr>
<td>POLS 4325</td>
<td>Politics in Latin America</td>
<td></td>
</tr>
<tr>
<td>MXAS 3301</td>
<td>Introduction to Mexican American Studies</td>
<td></td>
</tr>
<tr>
<td>MXAS 3311</td>
<td>Mexican American Literature</td>
<td></td>
</tr>
<tr>
<td>MXAS 4390</td>
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<td>ENGL 4361</td>
<td>Ethnic American Literature</td>
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<td>SOCI 3312</td>
<td>Racial and Ethnic Relations</td>
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</tr>
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<td>SOCI 3321</td>
<td>Mexican American Women</td>
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</tr>
<tr>
<td>SOCI 4312</td>
<td>Social Class and Inequality</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours from:</td>
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<td>HIST 4337</td>
<td>United States Women’s History</td>
<td></td>
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<tr>
<td>HIST 4340</td>
<td>European Women’s History</td>
<td></td>
</tr>
<tr>
<td>POLS 3311</td>
<td>Women and Politics</td>
<td></td>
</tr>
<tr>
<td>ENGL 4360</td>
<td>Women’s Literature</td>
<td></td>
</tr>
<tr>
<td>SOCI 3320</td>
<td>Sociology of Gender</td>
<td></td>
</tr>
<tr>
<td>READ 3353</td>
<td>Content Reading for Secondary Students</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours from:</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENGL 2332*</td>
<td>Literature of the Western World: From the Classics to the Renaissance</td>
<td></td>
</tr>
<tr>
<td>ENGL 2333*</td>
<td>Literature of the Western World: From the Enlightenment to the Present</td>
<td></td>
</tr>
</tbody>
</table>

*In addition to the required literature course in the University Core Curriculum
# Social Studies (Grades 4-8)

## Degree Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>39</td>
</tr>
<tr>
<td>D. Professional Development</td>
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<tr>
<td>E. Teacher Certification Requirements</td>
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<tr>
<td>F. Foreign Language Requirement</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>132 (134)</strong></td>
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*First Year Seminars

First-Year Seminars or Electives

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101/UCCP1102</td>
<td>First-Year Seminar I, II</td>
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<tr>
<td>HIST 2311</td>
<td>Western Civilization I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 2312</td>
<td>Western Civilization II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>3 hours from:</td>
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<td></td>
</tr>
<tr>
<td>HIST 3315</td>
<td>Europe 1750-1815</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3317</td>
<td>Europe 1815-1914</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3319</td>
<td>Europe 1914 to the Present</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4340</td>
<td>European Women’s History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4342</td>
<td>The Holocaust</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4345</td>
<td>European Thought and Culture, 1750-Present</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>3 hours from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 3320</td>
<td>Colonial &amp; Revolutionary U.S.</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3321</td>
<td>The Early American Republic</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3323</td>
<td>Civil War and Reconstruction</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3324</td>
<td>U.S. Gilded Age and Progressive Era</td>
<td>3 hrs.</td>
</tr>
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<td>HIST 3325</td>
<td>Emergence of Modern U.S.</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3326</td>
<td>U.S. Since 2nd World War</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3335</td>
<td>The U.S. Urban Experience</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4320</td>
<td>U.S. Cultural Experience</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4325</td>
<td>Business &amp; Labor History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4327</td>
<td>U.S. Modern Popular Culture</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4335</td>
<td>The Military and United States History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4336</td>
<td>Mexican American History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4337</td>
<td>United States Women’s History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3331</td>
<td>Texas History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3340</td>
<td>Modern East Asia</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>3 hours from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 3302</td>
<td>Latin American History</td>
<td>3 hrs.</td>
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<tr>
<td>HIST 4373</td>
<td>Mexico: The Colonial Period</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4374</td>
<td>Mexico: The National Period</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>3 hours from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 4336</td>
<td>Mexican American History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4337</td>
<td>United States Women’s History</td>
<td>3 hrs.</td>
</tr>
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<td>HIST 4340</td>
<td>European Women’s History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>MXAS 3301</td>
<td>Introduction to Mexican American Studies</td>
<td>3 hrs.</td>
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<td>MXAS 3311</td>
<td>Mexican American Literature</td>
<td>3 hrs.</td>
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<tr>
<td>MXAS 4390</td>
<td>Topics in Mexican American Studies</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>POLS 3311</td>
<td>Women and Politics</td>
<td>3 hrs.</td>
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</table>
POLS 4325 Politics in Latin America
ENGL 4360 Women’s Literature
ENGL 4361 Ethnic American Literature
SOCI 3312 Racial and Ethnic Relations
SOCI 3320 Sociology of Gender
SOCI 3321 Mexican American Women
SOCI 4312 Social Class and Inequality

3 hours from: 3 hrs.

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

GEOG 1300 World Geography 3 hrs.
GEOG 3331 Geography of North America 3 hrs.
ECON 2302* Microeconomics Principles 3 hrs.

3 hours from:
POLS 3313 The Legislative Process
POLS 3314 Elections & Public Opinion
POLS 3315 Parties & Interest Groups
POLS 3316 The American Presidency
READ 3321 Reading Instruction for Grades 4-8 3 hrs.
READ 3351 Diagnosis and Correction of Reading Problems 3 hrs.

SMTE 1350 Fundamentals of Mathematics I 3 hrs.
SMTE 1351 Fundamentals of Mathematics II 3 hrs.
SMTE 3315 Foundational Approaches to the Physical Sciences 3 hrs.
SMTE 3316 Foundational Approaches to the Life Sciences 3 hrs.

*Prerequisites: Math 1314.

Social Studies (Grades 8-12)

Degree Requirements

| A. University Core | 45 |
| B. First-Year Seminars (when applicable)* | (2) |
| C. Major Requirements | 51 |
| D. Professional Development | 24 |
| E. Teacher Certification Requirements | 3 |
| E. Foreign Language Requirement | 6 |
| **Total** | **129-131** |

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP1102 First-Year Seminar I, II 2 Semester Hours

<p>| HIST 2311 | Western Civilization I 3 hrs. |
| HIST 2312 | Western Civilization II 3 hrs. |
| HIST 3302 | Latin American History 3 hrs. |
| 3 hours from: | 3 hrs. |
| HIST 3315 | Europe 1750-1815 |
| HIST 3317 | Europe 1815-1914 |
| HIST 3319 | Europe 1914 to the Present |
| HIST 4340 | European Women’s History |
| HIST 4342 | The Holocaust |
| HIST 4345 | European Thought and Culture, 1750-Present |</p>
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<th>Course Title</th>
<th>Credits</th>
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<td>Colonial &amp; Revolutionary U.S.</td>
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<td>HIST 3321</td>
<td>The Early American Republic</td>
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<tr>
<td>HIST 3323</td>
<td>Civil War and Reconstruction</td>
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<tr>
<td>HIST 3324</td>
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<td>HIST 3325</td>
<td>Emergence of Modern U.S.</td>
<td></td>
</tr>
<tr>
<td>HIST 3326</td>
<td>U.S. Since 2nd World War</td>
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<td>HIST 3335</td>
<td>The Early American Republic</td>
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<td>HIST 3320</td>
<td>U.S. Cultural Experience</td>
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<tr>
<td>HIST 3325</td>
<td>Business &amp; Labor History</td>
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<tr>
<td>HIST 3327</td>
<td>U.S. Modern Popular Culture</td>
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<tr>
<td>HIST 3335</td>
<td>The Military and United States History</td>
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</tr>
<tr>
<td>HIST 3337</td>
<td>United States Women’s History</td>
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</tr>
<tr>
<td>HIST 3331</td>
<td>Texas History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 3340</td>
<td>Modern East Asia</td>
<td>3 hrs.</td>
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<tr>
<td>HIST 4373</td>
<td>Mexico: The Colonial Period</td>
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<td>HIST 4374</td>
<td>Mexico: The National Period</td>
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<td>HIST 4385</td>
<td>Historical Research and Writing</td>
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<td>HIST 4336</td>
<td>Mexican American History</td>
<td>3 hrs.</td>
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<td>HIST 4337</td>
<td>United States Women’s History</td>
<td>3 hrs.</td>
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<td>European Women’s History</td>
<td>3 hrs.</td>
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<td>MXAS 3301</td>
<td>Introduction to Mexican American Studies</td>
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<td>MXAS 3311</td>
<td>Mexican American Literature</td>
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<td>MXAS 4390</td>
<td>Topics in Mexican American Studies</td>
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<tr>
<td>POLS 3311</td>
<td>Women and Politics</td>
<td>3 hrs.</td>
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<td>POLS 4325</td>
<td>Politics in Latin America</td>
<td>3 hrs.</td>
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<tr>
<td>ENGL 4360</td>
<td>Women’s Literature</td>
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<td>ENGL 4361</td>
<td>Ethnic American Literature</td>
<td>3 hrs.</td>
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<tr>
<td>SOCI 3312</td>
<td>Racial and Ethnic Relations</td>
<td>3 hrs.</td>
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<td>SOCI 3320</td>
<td>Sociology of Gender</td>
<td>3 hrs.</td>
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<tr>
<td>SOCI 3321</td>
<td>Mexican American Women</td>
<td>3 hrs.</td>
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<tr>
<td>SOCI 4312</td>
<td>Social Class and Inequality</td>
<td>3 hrs.</td>
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<tr>
<td>GEOG 1300</td>
<td>World Geography</td>
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<td>GEOG 3331</td>
<td>Geography of North America</td>
<td>3 hrs.</td>
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<td>ECON 2302</td>
<td>Microeconomic Principles</td>
<td>3 hrs.</td>
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<td>POLS 3314</td>
<td>Elections &amp; Public Opinion</td>
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<td>POLS 3315</td>
<td>Parties &amp; Interest Groups</td>
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<td>POLS 4361</td>
<td>American Political Thought</td>
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<tr>
<td>POLS 3313</td>
<td>The Legislative Process</td>
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<td>POLS 3316</td>
<td>The American Presidency</td>
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<td>POLS 3331</td>
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<tr>
<td>READ 3353</td>
<td>Reading</td>
<td>3 hrs.</td>
</tr>
</tbody>
</table>

*Prerequisites: MATH 1314
Journalism

Although this area does not offer the baccalaureate degree, it does offer an interdisciplinary minor.

MINOR IN JOURNALISM

The purpose of this interdisciplinary minor is to provide courses for students who are interested in pursuing careers in print journalism or who are interested in more intensive work in writing and editing for print and broadcast media. The minor consists of 18 semester hours.

Any student may take individual courses in the minor as long as he or she has passed Composition I and II (ENGL 1301 and 1302) with a C or better and has at least minimal typing skills.

Students who select this minor must consult with an academic advisor in the College of Liberal Arts prior to completing 6 semester hours of course work listed in the program. Students are also encouraged to discuss the program with faculty members who teach the courses. 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 degree will be awarded. In order to graduate with a minor in Journalism, students must maintain an overall grade point average of 2.0 in courses in the minor.

Students may choose 9 semester hours from:

- ENGL 3301
- ENGL 3375
- ENGL 3378
- ENGL 3379
- ENGL 3380
- COMM 3312.

9 additional hours may be chosen from:

- ENGL 3361
- ENGL 4320
- ENGL 4397
- COMM 1318
- COMM 3301
- COMM 3312
- COMM 3360
- COMM 4399
- ARTS 2356
- ARTS 3361
- ARTS 4365

and any courses not yet taken from the first block.

Since some of these courses are advanced courses in particular fields, students should seek permission from the instructor to take a specific course prior to registering for it. Of course, students must meet any prerequisite requirements.

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Latin American Studies

Although this area does not offer the baccalaureate degree, it does offer an interdisciplinary minor.

MINOR IN LATIN AMERICAN STUDIES

Students who select this minor must consult with and have approval of the History 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.

A minimum of 18 semester hours selected from the following courses is required for the minor:

- 6 hours of History (HIST 3302 and either HIST 4373 or HIST 4374)
- 3 hours of POLS 4325
- 3 hours from:
  - FINA 4315 (prereq. ECON 2301 in the University Core Requirements, ECON 2302, FINA 3310, and Junior standing or above)
  - MGMT 4315 (prereq. MGMT 3312)
  - MKTG 4340 (prereq. MKTG 3310)

- 3 hours of Spanish beyond the 6 hour College of Liberal Arts Second Language core requirement or the equivalent*

- 3 hours of designated electives approved by the Latin American Studies Advisor

* This requirement can be satisfied through an equivalency test. See Spanish section of the catalog for details.

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Mexican American Studies

Mexican American Studies (also known as Chicano Studies) is a multi-disciplinary concentration offered by the College of Liberal Arts. This program focuses on the study of Mexican Americans. The area does not offer a degree program, but it does offer a minor that contributes to the broadening experiences of students majoring in other areas. Mexican American Studies are intended to serve the general education needs of students who are either interested in the cultural aspects of the community, or who intend to complete specific degree programs that require Mexican American Studies courses.

MINOR IN MEXICAN AMERICAN STUDIES

The Mexican American Studies Minor requires a minimum of 18 upper-division hours of designated course work. A student may not use the same course to satisfy both major and minor requirements.

Students electing a Mexican American Studies Minor are expected to develop knowledge of major writers and works, and historical, political, and linguistic trends in Mexican American Studies.

Students who select this minor must consult with and have approval of the Mexican American 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 the 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. Students may choose from the following courses. All courses are taught in English unless otherwise indicated.

Cultural: Six hours are required from this component. MXAS 3307, Mexican American Folklore, is required. Choose one course from the list below:
- MXAS 3301 Introduction to Mexican American Studies
- MXAS 3311 Mexican American Literature
- SOCI 3321 Mexican American Women
- ARTS 4350 Pre-Columbian Art of Mesoamerica
- SPAN XXXX Any literature course in Spanish section of the catalog.

Historical/Political: Six hours are required from this component. Choose two courses from the list below:
- HIST 4336 Mexican American History
- HIST 4373 Mexico: the Colonial Period
- HIST 4374 Mexico: the National Period
- POLS 4315 Mexican American Politics

Linguistic: Six hours are required from this component. MXAS 4321, Mexican American Linguistic Heritage, is required. Choose one course from the list below:
- ENGL 3364 Contrastive Linguistics
- ENGL 3365 Psycholinguistic Foundations of Second Language Assessment
- ENGL 3366 Language in Society
- SPAN XXXX Any linguistic course in Spanish section of the catalog.

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Music

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, 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 Student Learning Outcomes

1. Graduates earning a Bachelor of Music will have the following knowledge and skills at the end of the program:
   • knowledge of music theory, history, literature, and culture
   • skills necessary to perform, conduct, and/or compose music from various periods and genres
   • knowledge of performance literature appropriate to their medium

2. By the end of the Bachelor of Music with Teacher Certification program, students 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

3. At the end of their academic careers, graduates of the Bachelor of Arts in Music 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.

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 3310 History of Jazz, MUSI 2302 Non-Major Class Piano II, MUSI 2303 Basic Guitar II and MUSI 3370 Class Voice.

MUSIC DEGREE OFFERINGS

Texas A&M University-Corpus Christi offers three distinct degree programs and a minor in music:
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.

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.

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.

ADMISSION TO MUSIC DEGREE PROGRAMS
Students who seek the Bachelor of Music in Performance or the Bachelor of Music with Teacher Certification are expected to perform at increasingly higher levels of technical and artistic achievement throughout the course of undergraduate study. Assessment of these aspects of musical growth is accomplished at the final examination for each semester of Principal Studio enrollment, which consists of a performance before a jury committee composed of music faculty. Jury examination committees recommend performance grades and control the placement of students in Principal Studio achievement levels. In order to avoid the unhappy situation in which a student persists in the pursuit of a professional music degree when there is little or no practical hope of success, the following policies governing admission to and retention in the Texas A&M University-Corpus Christi Bachelor of Music degree programs are enforced.

Probationary Admission Status
Students who begin their Principal Studio course work at A&M-Corpus Christi will earn Probationary Admission to their chosen Bachelor of Music degree program when the appropriate jury examination committee recommends their placement at the first-semester sophomore achievement level.

Students who have successfully completed one or more Principal Studio courses elsewhere will earn Probationary Admission to their chosen Bachelor of Music degree program when the appropriate jury examination committee recommends their placement at the next highest achievement level from that of their first A&M-Corpus Christi Principal Studio enrollment (e.g., from 3283 to 3284).

Bachelor of Arts degree students do not require formal admission to their degree program beyond general University and College requirements for admission and retention.

Final Admission Status
Bachelor of Music students earn Final Admission to their chosen degree program when the appropriate jury examination committee recommends their placement at the first-semester junior achievement level.
Students who transfer to A&M-Corpus Christi at or above the first-semester junior level of studio achievement will attain Final Admission status when the appropriate jury examination committee recommends their placement at the next higher achievement level from that of their first A&M-Corpus Christi Principal Studio enrollment.

Students who do not qualify for Final Admission after their second attempt shall not be retained in either of the Bachelor of Music degree programs.

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.

SPECIFIC DEGREE REQUIREMENTS

All music 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 excused. Note that the first course in the Musicianship sequence (MUSI 1312) requires a passing score on the Music Department Theory Fundamentals Placement Exam OR prior completion of MUSI 1311 with a grade of “C” or better. Similarly, the first course in the Aural Training sequence (MUSI 1117) requires a passing score on the Music Department Theory Fundamentals Placement Exam OR prior completion of MUSI 1116 with a grade of “C” or better. All music degrees require MUSI 1307 Elements of Musical Style, which also meets the University Core Program Fine Arts requirement. No music course work 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.

Bachelor of Arts in Music

Degree Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
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<tr>
<td>B. First-Year Seminars (when applicable)*</td>
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<tr>
<td>C. Major Requirements</td>
<td>42</td>
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<tr>
<td>D. University Electives</td>
<td>25-27</td>
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<tr>
<td>E. Foreign Language Requirements</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 (122)</strong></td>
</tr>
</tbody>
</table>

*First-Year Seminars

First-Year Seminars or Electives
Full-time, first-year students are required to take the following courses:

**UCCP 1101/UCCP 1102**  First Year Seminar I, II  2

- **MUSI 1312, 2311, 2312**  Musicianship II, III, IV
- **MUSI 1117, 2116, 2217**  Aural Training II, III, IV
- **MUSI 3346**  Form and Analysis of Tonal Music
- **MUSI 1307**  Elements of Musical Style (Meets core curriculum Fine Arts requirement)
- **MUSI 4334**  History of Western Music I
- **MUSI 4335**  History of Western Music II
- **MUSI 4085**  Senior Recital

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, MUEN 1124, MUEN 1151)

Music Credits Required for the Bachelor of Arts in Music  42 hrs.
Total Minimum Requirement for the Bachelor of Arts in Music:  120 hrs.

**Bachelor of Music with EC-12 Teacher Certification**

All students seeking the Bachelor of Music with Teacher Certification degree must complete a 122 hr. set of Common Requirements consisting of the University Core Curriculum Program (45 hrs.), Common Musicianship course work (40 hrs.), Common Pedagogy Core (10 hrs.), and Professional Development (27 hrs.). In addition, a 10 hr. Track Specific Techniques Block must be completed.

**Degree Requirements**

<table>
<thead>
<tr>
<th></th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
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<td>C. Major Requirements</td>
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<td>D. Professional Development</td>
<td>24</td>
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<td>E. Teacher Certification Requirements</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td>132 (134)</td>
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</tbody>
</table>

*First-Year Seminars

First-Year Seminars or Electives

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

**UCCP 1101/UCCP 1102**  First Year Seminar I, II  2

**Teacher Certification Common Music Core**

- **MUSI 1312, 2311, 2312**  Musicianship II, III, IV
- **MUSI 1117, 2116, 2117**  Aural Training II, III, IV
- **MUSI 1181, 1182, 2181, 2182**  Class Piano I, II, III, IV
- **MUSI 3346**  Form and Analysis of Tonal Music
- **MUSI 4346**  Orchestration and Arranging
- **MUSI 1307**  Elements of Musical Style (Meets core curriculum Fine Arts requirement)
- **MUSI 4334**  History of Western Music I
- **MUSI 4335**  History of Western Music II
- **MUSI 4085**  Senior Recital

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, MUEN 1124, MUEN 1151)
*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: 40 hrs.

**Teacher Certification Common Pedagogy Core**

- MUSI 3252 Foundations of Music Programs
- MUSI 3253 Basic Conducting
- MUSI 3354 Advanced Conducting
- MUSI 4335 Music for Young Children

Total Teacher Certification Common Pedagogy Core: 10 hrs.

**Professional Development Course Work**

All music teacher certification students must complete the following Professional Development course work:

- READ 3353 Content Area Reading For Secondary Students
- EDCI 3311 School and Society
- EDCI 4606 Planning, Teaching, Assessment, and Technology for Grades 8-12 Teachers
- EDCI 4311 Classroom Management: Grades EC-4
- EDCI 4321 Instructional Design for Special Populations: Grades EC-4
- EDUC 4692 Student Teaching: EC-Grade 4
- EDUC 4393 Student Teaching: Grades 8-12

Total Professional Development Sequence: 27 hrs.

**Track-Specific Techniques Block: Vocal/General**

- MUSI 3161 Secondary Guitar Studio
- MUSI 3167 Woodwind Techniques I
- MUSI 3168 Brass Techniques I
- MUSI 3169 Brass Techniques II
- MUSI 3188 Percussion Techniques
- MUSI 3264 Diction for Singers
- MUSI 4357 Choral Literature and Techniques

Total Vocal/General Track-Specific Techniques Block: 10 hrs.

Total Music Teacher Certification, Vocal/General Track: 132 hrs.

**Track-Specific Techniques Block: Instrumental**

- MUSI 3166 Woodwind Techniques I
- MUSI 3167 Woodwind Techniques II
- MUSI 3168 Brass Techniques I
- MUSI 3169 Brass Techniques II
- MUSI 3170 Voice Techniques for Instrumentalists
- MUSI 3188 Percussion Techniques
- MUSI 3189 String Techniques
- MUSI 4358 Instrumental Literature and Techniques

Total Instrumental Track-Specific Techniques Block: 10 hrs.

Total Music Teacher Certification, Instrumental Track: 132 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.

Bachelor of Music in Performance (Instrumental)

Degree Requirements

<table>
<thead>
<tr>
<th>A. University Core</th>
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<tr>
<td>B. First-Year Seminars (when applicable)*</td>
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<td>C. Major Requirements</td>
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<td>D. University Electives</td>
<td>1-3</td>
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<td><strong>Total</strong></td>
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</table>

*First-Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102 First Year Seminar I, II 2

Bachelor of Music in Performance (Voice)

Degree Requirements

<table>
<thead>
<tr>
<th>A. University Core</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
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<td>C. Major Requirements</td>
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<td>D. Foreign Language Requirements</td>
<td>6</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>125 (127)</strong></td>
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</tbody>
</table>

*First-Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102 First Year Seminar I, II 2

Voice majors must complete two upper-division foreign language courses. 6 hrs.
Voice majors must complete MUSI 3264 Diction for Singers 2 hrs.
MUSI 1312, 2311, 2312 Musicianship II, III, IV
MUSI 1117, 2116, 2117 Aural Training II, III, IV
MUSI 1181, 1182, 2181, 2182* Class Piano I, II, III, IV
MUSI 3346 Form and Analysis of Tonal Music
MUSI 4346 Orchestration and Arranging
MUSI 1307 Elements of Musical Style (Meets core curriculum Fine Arts requirement)
MUSI 4334 History of Western Music I
MUSI 4335 History of Western Music II
MUSI 3253 Basic Conducting
MUSI 4340 Studies in Repertoire
MUSI 4360 Studies in Pedagogy
MUSI 3085 Junior Recital
MUSI 4085 Senior Recital
Appropriate 8-semester sequence of Principal Applied Studio courses in one performance area (20 hrs.).
Minimum of 8 hrs. of appropriate large ensemble (MUEN 1123, MUEN 1124, MUEN 1151)
Upper-Division music electives 4 hrs. (voice majors) 8 hrs. (instrumental majors)
Free Upper-Division electives 3 hrs. (instrumental majors)
*Students with adequate keyboard skills may substitute Secondary Piano Studio courses for Class Piano I-IV with permission of the Music Department Chair.

Total Music Course Work, Voice Majors 70 hrs.
Total Core and Language, Voice Majors 51 hrs.

Total Music Course Work, Instrumental Majors 72 hrs.
Total Core and Free Electives, Instrumental Majors 48 hrs.

Total Minimum Requirements for Bachelor of Music in Performance:
(Vocal) 121 hrs.
(Instrumental) 120 hrs.

Minor in Music
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 course work. The course of study leading to the minor is comprised of 21-22 semester credit hours from the following courses.

MUSI 1311, 1312 Musicianship I, II
MUSI 1116, 1117 Aural Training I, II
MUAP 1XXX or higher Secondary Applied Studio (two semesters)
MUAP 2XXX or higher Secondary Applied Studio (two semesters)
MUEN 1123, 1124, or 1151 Symphonic Winds, Concert Orchestra, or University Singers (four semesters)

Choose two from the following:
MUSI 3253 Basic Conducting
MUSI 3310 History of Jazz
MUSI 3313 Applications of Music Technology
MUSI 3315 Recording Techniques
MUSI 3316 Recording Techniques II
MUSI 3320 Music Business Survey
MUSI 3321 Music Business Survey II
MUSI 4334 History of Music I

UNDERGRADUATE COURSES
All course descriptions are located in one section near the back of the catalog.
Philosophy

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 explore philosophical issues by examining and responding to the ideas of important historical and contemporary contributors to the discipline.

The study of philosophy can be a valuable part of a liberal arts education. It may 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.

While the primary objective of the philosophy program is to contribute to liberal arts education, 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, students with extensive training in philosophy have achieved exceptionally high scores on admissions tests to business and law schools (the GMAT and LSAT) and on the GRE, and have been particularly successful in gaining admission to medical schools.

Philosophy courses are offered as electives for students in all fields of study. Students may also select philosophy as a minor field of study for the Bachelor of Arts and Bachelor of Science degrees.

MINOR IN PHILOSOPHY

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, and at least 9 hours must be completed in residence at A&M-Corpus Christi. Students must achieve an overall GPA of 2.0 in philosophy. The following courses are required of all philosophy minors:

1) PHIL 1301 3 hrs.
2) PHIL 2303 3 hrs.
3) One Ethics course (3 sem. hrs.):
   Foundations of Professional Ethics (PHIL 3340*) or PHIL 4390
   (where topic is appropriate)
4) One course (3 sem. hrs.) from either category a) or category b) below:
   a) History of Philosophy (PHIL 3322, Modern Philosophy, or PHIL 4390, where
topic is appropriate)
   b) Metaphysics and Epistemology (PHIL 4331; or PHIL 4390, where topic is ap-
appropriate)
5) Two philosophy electives (3 sem. hrs. each)

Students are encouraged to take PHIL 1301 and PHIL 2303 as early as possible in their pursuit of the minor. Courses from category 4a) and category 4b) are selected in consultation with a philosophy faculty advisor.

* Included in the University core curriculum

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
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.

Students completing the political science component of the University Core Curriculum will understand basic principles of national, state, and local politics. Bachelor of Arts in Political Science graduates will be able to:

- 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 University Core Curriculum. Political science majors are required to take MATH 1442 to satisfy the Mathematics University Core Curriculum 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**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements**</td>
<td>31</td>
</tr>
</tbody>
</table>
D. University Electives 36-38
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/UCCP 1102  First-Year Seminar I, II  2

**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:
  POLS 3313, POLS 3316, POLS 3317
  POLS 3321, POLS 3331, POLS 4325
  POLS 3361, POLS 3365, POLS 4361
  POLS 3312, POLS 3314, POLS 3315

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, POLS 3342, POLS 4311, POLS 4312, POLS 4315, POLS 4390 (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, POLS 3312, POLS 3314, POLS 3315, POLS 3342, POLS 3365, POLS 4310, POLS 4314, POLS 4315, POLS 4390 (when appropriate)
  Electives
    Statistics, Research Methods, Sociology

**Comparative/International**
  Political Science Courses
    POLS 3321, POLS 3331, POLS 3365, POLS 4322, POLS 4325, POLS 4390 (when appropriate)
  Electives
    Foreign Language (beyond requirements), Economics, World History

**Academic**
  Political Science Courses
    Consult with advisor
  Electives
    Statistics, Writing, Computer, Economics
MINOR IN POLITICAL SCIENCE

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 University Core Curriculum. Of these 18 semester hours, at least one course (3 hours) must be taken from the courses in EACH of the four lists below:

- POLS 3312, POLS 3314, POLS 3315
- POLS 3313, POLS 3316, POLS 3317
- POLS 3321, POLS 3331, POLS 4325
- POLS 3361, POLS 3365, POLS 4361

The remaining 6 hours of unrestricted electives can be any political science course.

TEACHER CERTIFICATION

See the History section for descriptions of certification programs in Social Studies grades 4-8 and 8-12.

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Psychology

Mission

In keeping with the University’s mission, the Psychology department 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.

MAJOR IN PSYCHOLOGY

Student Learning Objectives

- **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 course work 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

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
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<tr>
<td>B. First-Year Seminars (when applicable)*</td>
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<td>C. Major Requirements**</td>
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<td>D. University Electives</td>
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<td>E. Foreign Language Requirements</td>
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<td><strong>120</strong></td>
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</table>
*First Year Seminars

First-Year Seminars or Electives
Full-time, first-year students are required to take the following courses:
UCCP 1101/UCCP 1102 First-Year Seminar I, II 2

**Hours in the major include 1 hour from MATH 1442

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 2301</td>
<td>General Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSYC 3411</td>
<td>Experimental Psychology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PSYC 4309</td>
<td>History &amp; Systems of Psychology</td>
<td>3 hrs</td>
</tr>
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</table>

Choose 2 of 4 from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3342</td>
<td>Cognitive Psychology</td>
</tr>
<tr>
<td>PSYC 3343</td>
<td>Learning &amp; Memory</td>
</tr>
<tr>
<td>PSYC 4352</td>
<td>Physiological Psychology</td>
</tr>
<tr>
<td>PSYC 4354</td>
<td>Sensation &amp; Perception</td>
</tr>
</tbody>
</table>

Choose 2 of 4 from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>PSYC 2314</td>
<td>Lifespan Developmental Psychology</td>
</tr>
<tr>
<td>PSYC 2326</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>PSYC 3361</td>
<td>Psychology of Personality</td>
</tr>
<tr>
<td>PSYC 3363</td>
<td>Abnormal Psychology</td>
</tr>
</tbody>
</table>

Psychology Electives - 5 courses 15 hrs

MATH 1442 or its equivalent is a prerequisite course for taking Experimental Psychology (PSYC 3411). The student should take Statistical Methods (Math 1442 or its equivalent) in the sophomore year, followed by Experimental Psychology early in the junior year.

In order to register for PSYC 4309, students must first complete 24 hours of psychology coursework.

MINOR IN PSYCHOLOGY

The student minoring in psychology shall take 18 hours of course work to include the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 2301</td>
<td>General Psychology</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

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<td>Physiological Psychology</td>
</tr>
<tr>
<td>PSYC 4354</td>
<td>Sensation &amp; Perception</td>
</tr>
</tbody>
</table>

Psychology Electives – 3 courses 9 hrs

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Public Relations

Although this area does not offer the baccalaureate degree, it does offer an interdisciplinary minor.

MINOR IN PUBLIC RELATIONS

The mission of the Public Relations profession is to manage the reputation of organizations. The interdisciplinary Public Relations Minor is designed for students interested in gaining a basic understanding of the history, function, and tools of PR. 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 critical analysis and creative thinking. The minor consists of 18 semester hours, which include 3 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 course work listed in the program. The minor plan must be filed with the Degree Counselor 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.

Students who are interested in this minor must have completed Composition I and II (ENGL 1301 & 1302) and Public Speaking (COMM 1315) 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: (9 hours)

COMM 3312 Newswriting for Television, Radio and the Internet
COMM 3340 Public Relations Techniques
COMM 4330 Public Relations Cases and Strategies

Students may select from the following courses: (9 hours)
(Select courses with the approval of the Public Relations Minor
Advisor)

ARTS 3361 Graphic Design
ENGL 3301 Principles of Professional & Report Writing
ENGL 3375 Writing in the Professions
COMM 2350 Media Writing and Performance
COMM 3310 Communication Theory
COMM 3330 Persuasion
COMM 3380 New Media and Communication
COMM 4340 Advertising Criticism
COMM 4345 Intercultural Communication
COMM 4350 Communication in Organizations
COMM 4398 Applied Experience
COMM 4399 Communication Internship
SOCI 1342 Social Science Statistics
SOCI 4445 Social Research Methods
MKTG 3310 Principles of Marketing
MKTG 3320 Basic Advertising
Social Work

Although this area does not offer the baccalaureate degree, it does offer an interdisciplinary minor.

MINOR IN SOCIAL WORK

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 course work 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.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCW 3301</td>
<td>Introduction to Social Work</td>
</tr>
<tr>
<td>SOCW 3310</td>
<td>Approaches to Social Welfare</td>
</tr>
<tr>
<td>SOCW 3320</td>
<td>Social Services in the Community</td>
</tr>
<tr>
<td>SOCW 3350</td>
<td>Social Work Practice</td>
</tr>
</tbody>
</table>

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

Psychology

PSYC 2314 Life Span Development
PSYC 3326 Psychology of Aging
PSYC 3363 Abnormal Psychology
PSYC 4332 Cross Cultural Psychology
PSYC 4367 Gender Issues in Psychology

Sociology

SOCl 3312 Race & Ethnic Relations
SOCl 3320 Sociology of Gender
SOCl 3321 Mexican American Women
SOCl 3340 Sociology of the Family
SOCl 4312 Social Class and Inequality
SOCl 4325 Medical Sociology

Criminal Justice

CRIJ 4331 Juvenile Delinquency
CRIJ 4360 Domestic Violence
Sociology

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.

Students who earn a Bachelor of Arts in Sociology will be able to:
- 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 for 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 University Core Curriculum 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

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements**</td>
<td>38</td>
</tr>
<tr>
<td>D. University Electives</td>
<td>29-31</td>
</tr>
<tr>
<td>E. Foreign Language Requirements</td>
<td>6</td>
</tr>
<tr>
<td>**Total</td>
<td>120</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101/UCCP 1102</td>
<td>First-Year Seminar I, II</td>
</tr>
</tbody>
</table>

**Hours in the major include 1 hour from MATH 1442
### MAJOR STUDY COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 1301</td>
<td>Human Societies</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOCI 4301</td>
<td>Social Theory (offered only in the spring semester)</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOCI 4445</td>
<td>Social Research Methods (offered only in the fall semester)</td>
<td>4 hrs</td>
</tr>
<tr>
<td>SOCI 4385</td>
<td>Senior Seminar in Sociology</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>(to be taken during senior year only)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(only offered in the spring semester)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(4301 and 4445 must be taken before 4385)</td>
<td></td>
</tr>
</tbody>
</table>

At least two courses from each of the following two categories:

- **Social Interaction and Intergroup Relations**: 6 hrs
  - SOCI 2326, 3312, 3320, 3321, 3349, 4312, 4318, 4320, 4331, 4375

- **Social Organizations and Institutions**: 6 hrs
  - SOCI 1306, 3315, 3316, 3340, 3350 4310, 4315, 4325, 4335

- **Sociology Electives**: 12 hrs
  - Elective course work 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 4312
- SOCI 4445 and SOCI 4301 must be taken before SOCI 4385

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 IN SOCIOLOGY

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):

- SOCI 1301 before all other SOCI courses: 3 hrs
- SOCI 3312, 3320, 2326, 4312: 3 hrs
- SOCI 3315, 3316, 3340, 4310, 4315: 3 hrs
- SOCI 3349, 4331, 4335: 3 hrs
- SOCI 1306, 4301, 4318, 4445: 3 hrs
- SOCI elective: 3 hrs

### UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Spanish

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. 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 University Core Curriculum, and for those seeking electives to support majors and minors in other fields.

Students earning the Bachelor of Arts in Spanish 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 (Texas Examinations of Educator Standards) and the TOPT (Texas Oral Proficiency 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 36 semester hours, at least 30 of which must be at the upper-division level. Students seeking a B.A. in Spanish are required to take the following upper-division courses:

**MAJOR IN SPANISH**

**Degree Requirements**

<table>
<thead>
<tr>
<th></th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>36</td>
</tr>
<tr>
<td>D. University Electives</td>
<td>31-33</td>
</tr>
<tr>
<td>E. Foreign Language Requirement</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102 First-Year Seminar I, II 2

Four from Linguistics: 12 hrs.

SPAN 3302 Spanish Composition
SPAN 3311 Spanish Phonetics
SPAN 3312 Spanish Grammar
SPAN 4303 Spanish in the Southwest
SPAN 4320 Spanish in the Americas
SPAN 4327 Methods in Foreign Language Instruction
SPAN 4390 Topics in Spanish*
Four from Literature: ** 12 hrs.
SPAN 3307 Spanish Literature I
SPAN 3308 Spanish Literature II
SPAN 3309 Spanish American Literature I
SPAN 3310 Spanish American Literature II
Four from Spanish electives: 12 hrs.
SPAN 2000***, 3000 or 4000 not taken before

*May be repeated when topics vary.
** If Spanish majors opt for any of these courses in the Core Curriculum, such course will not count towards the major. It shall be replaced with a different SPAN 3000 or 4000 literature course to complete the 12 hours in this area.
***Must obtain approval from faculty advisor

TEACHER CERTIFICATION PROGRAM

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 course work. To qualify to take the Spanish (Secondary) TExES examination and the Texas Oral Proficiency Test (TOPT), students must meet the following criteria:

1. Have at least a 2.5 GPA on all college course work (lower and upper level).
2. Have a 2.75 GPA on all Spanish course work (lower and upper level).
3. Provide official permit with signature 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, 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.

MAJOR IN SPANISH WITH TEACHING CERTIFICATION

Degree Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
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</tr>
<tr>
<td>C. Major Requirements</td>
<td>36</td>
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<tr>
<td>D. Professional Development</td>
<td>24</td>
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<td>E. Certification Requirements</td>
<td>3</td>
</tr>
<tr>
<td>F. University Electives</td>
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</tr>
<tr>
<td>G. Foreign Language Requirement</td>
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</tr>
<tr>
<td>Total</td>
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</tr>
</tbody>
</table>

*First Year Seminars

Full-time, first-year student are required to take the following courses:
UCCP 1101/UCCP1102 First-Year Seminar I, II 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 3302 Spanish Composition</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>SPAN 3311 Spanish Phonetics</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>SPAN 3312 Spanish Grammar</td>
<td>3 hrs.</td>
</tr>
</tbody>
</table>
SPAN 4327 Methods in Foreign Language Instruction 3 hrs.
SPAN 4390 Topics in Spanish * 3 hrs.

One from:
- SPAN 3304 Spanish Civilization 3 hrs.
- SPAN 3305 Spanish American Civilization 3 hrs.
- SPAN 3315 Civilizations of the Spanish-Speaking World 3 hrs.

One from:
- SPAN 3307 Spanish Literature I** 3 hrs.
- SPAN 3308 Spanish Literature II** 3 hrs.

One from:
- SPAN 3309 Spanish American Literature I** 3 hrs.
- SPAN 3310 Spanish American Literature II** 3 hrs.

One from:
- SPAN 4301 Spanish Civil War and Literature 3 hrs.
- SPAN 4302 Mexican Narrative 3 hrs.

One from:
- SPAN 4303 Spanish in the Southwest 3 hrs.
- SPAN 4320 Spanish in the Americas 3 hrs.

Two from:
- SPAN 2000***, 3000 or 4000 not taken before 6 hrs.

*May be repeated when topics vary.
** If Spanish majors opt for any of these courses in the Core Curriculum, such course will not count towards the major. It shall be replaced with a different SPAN 3000 or 4000 literature course to complete the 12 hours in this area.
***Must obtain approval from faculty advisor

MINOR IN SPANISH
Students planning to minor in Spanish must complete 18 semester hours, at least 12 of which must be at the upper-division level. Minors considering a teaching career should take:
- SPAN 3311 Spanish Phonetics 3 hrs.
- SPAN 3312 Spanish Grammar 3 hrs.

One of:
- SPAN 4303 Spanish in the Southwest 3 hrs.
- SPAN 4320 Spanish in the Americas 3 hrs.

Otherwise, the courses should be distributed equally whenever possible between third and fourth year courses. For additional information consult an advisor from the Spanish program.

UNDERGRADUATE COURSES
All course descriptions are located in one
Technical and Professional Writing

Although this area does not offer the baccalaureate degree, it does offer an interdisciplinary minor.

Minor in Technical and Professional Writing

This interdisciplinary and flexible minor provides students in all majors with writing experiences, including problem-solving, communications (both online and face-to-face), teamwork, 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 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 course work listed for the program.

The minor consists of 18 semester hours. Students are required to take:

- ENGL 3301
- 6 hours from the following courses:
  - ENGL 3375
  - ENGL 3378
  - ENGL 3379
  - ENGL 3380
  - ENGL 4320
  - ENGL 4321
  - ENGL 4397

The remaining 9 hours will be chosen from ENGL courses not taken in the above sequence and courses relevant to technical and professional writing in the student’s career area. Suggested courses include:

- ENGL 3340
- ENGL 3361
- ENGL 3366
- ENGL 3368
- COMM 3310
- COMM 3312
- COMM 3330
- COMM 3380
- COMM 4340
- COMM 4345
- COMM 4350
- ARTS 2356
- ARTS 3361
- ARTS 3365
- SPAN 3301
- SPAN 3312
- ENTC 1304
- ENTC 2305
- MGMT 3315,
- MGMT 3390
- SOCI 1342

Other courses may be chosen in conjunction with the student’s major advisor. 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.

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
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. BA in Theatre graduates will demonstrate the historical and cultural dimensions of theatre. Specifically the student will have the ability to:
   - 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.

2. BA in Theatre graduates will develop techniques and practical experience with production. Specifically the student will have the ability to:
   - 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.

3. 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**

<table>
<thead>
<tr>
<th>Component</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Major Requirements</td>
<td>57</td>
</tr>
<tr>
<td>D. University Electives</td>
<td>10-12</td>
</tr>
<tr>
<td>E. Foreign Language Requirements</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

<table>
<thead>
<tr>
<th>Course Codes</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101/1102</td>
<td>First-Year Seminar I, II</td>
<td>2</td>
</tr>
</tbody>
</table>
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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 1100</td>
<td>Theatre Production Lab I</td>
<td>1 hr.</td>
</tr>
<tr>
<td>THEA 1101</td>
<td>Theatre Production Lab II</td>
<td>1 hr.</td>
</tr>
<tr>
<td>THEA 1351</td>
<td>Acting I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 1371</td>
<td>Costume Construction</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 2100</td>
<td>Theatre Production Lab III</td>
<td>1 hr.</td>
</tr>
<tr>
<td>THEA 2101</td>
<td>Theatre Production Lab IV</td>
<td>1 hr.</td>
</tr>
<tr>
<td>THEA 2370</td>
<td>Theatre Stagecraft</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 3100</td>
<td>Theatre Production Lab V</td>
<td>1 hr.</td>
</tr>
<tr>
<td>THEA 3101</td>
<td>Theatre Production Lab VI</td>
<td>1 hr.</td>
</tr>
<tr>
<td>THEA 3311</td>
<td>Script Analysis</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 3350</td>
<td>Production Management</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 3370</td>
<td>Theatre History I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 3371</td>
<td>Theatre History II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 4100</td>
<td>Senior Seminar</td>
<td>1 hr.</td>
</tr>
<tr>
<td>THEA 4200</td>
<td>Senior Capstone</td>
<td>2 hrs.</td>
</tr>
<tr>
<td>THEA 4360</td>
<td>Stage Direction I</td>
<td>3 hrs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>33 hrs</td>
</tr>
</tbody>
</table>

**ACTING/DIRECTING FOCUS AREA:**
(24 required credit hour core)

The following courses are required as the core in Acting/Directing:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 1341</td>
<td>Stage Makeup</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 1342</td>
<td>Voice and Diction</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 1352</td>
<td>Acting II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 3300</td>
<td>Movement for Actors</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 3340</td>
<td>Audition Preparation</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 3375</td>
<td>Acting III: Period Styles</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 3385</td>
<td>Musical Theatre</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 4361</td>
<td>Stage Direction II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 hrs</td>
</tr>
</tbody>
</table>

Total Hours for BA in Theatre: Acting/Directing Focus 57 hrs.

**Dance Electives**
The following courses are suggested as electives for the Acting/Directing Focus Area:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 1141</td>
<td>Ballet I</td>
<td>1 hr.</td>
</tr>
<tr>
<td>DANC 1147</td>
<td>Jazz Dance I</td>
<td>1 hr.</td>
</tr>
<tr>
<td>DANC 1148</td>
<td>Modern Dance</td>
<td>1 hr.</td>
</tr>
<tr>
<td>DANC 1304</td>
<td>Dance in Performance</td>
<td>3 hrs.</td>
</tr>
</tbody>
</table>

**DESIGN/TECHNICAL THEATRE FOCUS AREA:**
(24 credit hour core)

The following courses are required as the core in the Design/Technical Theatre Focus:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 1341</td>
<td>Stage Makeup</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 1352</td>
<td>Acting II</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 3373</td>
<td>Principles of Design</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 3382</td>
<td>Drafting and Computer Aided Design for the Stage</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>THEA 4314</td>
<td>Collaborative Approaches to Design</td>
<td>3 hrs.</td>
</tr>
</tbody>
</table>

Liberal Arts
MINOR IN THEATRE

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 20 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 course work 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 1100 Theatre Production Lab I 1 hr.
THEA 1101 Theatre Production Lab II 1 hr.
THEA 1351 Acting I 3 hrs.
THEA 1371 Costume Construction 3 hrs.
THEA 2370 Stagecraft 3 hrs.
THEA 3311 Script Analysis 3 hrs.
THEA 3370 Theatre History I 3 hrs.

or

THEA 3371 Theatre History II 3 hrs.
THEA 4360 Stage Direction I 3 hrs.

20 hrs.

MINOR IN THEATRE FOR YOUTH

The minor in Theatre for Youth is designed for the emerging theatre professional and for those seeking teacher certification. Those seeking a degree in communication or in theatre will find that a minor in Theatre for Youth may increase their employment potential in a competitive workplace. The Theatre for Youth minor consists of 22 semester hours of Theatre, including 12 upper-level hours.

Students who select this minor must consult with the faculty advisor to the Theatre for Youth minor prior to completing 6 semester hours of course work 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 Theatre for Youth minor:

THEA 1101 Theatre Production Lab II 1 hr.
THEA 3301 Theatre for Youth 3 hrs.
THEA 3302 Creative Dramatics 3 hrs.

7 hrs.

(Choose four courses from the following): 12 hrs.

THEA 1342 Voice and Diction
THEA 1351 Acting I
THEA 3300 Movement for Actors
THEA 4323 Oral Interpretation of Children’s Literature
THEA 4360 Stage Direction I
Recommended Electives:
Choose one of the following: 3 hrs.
THEA 2370 Theatre Stagecraft
THEA 3373 Principles of Design
THEA 4314 Collaborative Approaches to Design
THEA 4365 Costume Design
THEA 4370 Set Design
THEA 4372 Theatre Practicum
THEA 4375 Lighting Design
THEA 4380 Advanced Stage Makeup

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
Requirements leading to teacher certification in Theatre Arts are as follows:
THEA 1100 Theatre Production Lab I 1 hr.
THEA 1101 Theatre Production Lab II 1 hr.
THEA 1342 Voice and Diction 3 hrs.
THEA 1351 Acting I 3 hrs.
THEA 1352 Acting II 3 hrs.
THEA 1371 Costume Construction 3 hrs.
THEA 2100 Theatre Production Lab III 1 hr.
THEA 2101 Theatre Production Lab IV 1 hr.
THEA 2370 Stagecraft 3 hrs.
THEA 3100 Theatre Production Lab V 1 hr.
THEA 3101 Theatre Production Lab VI 1 hr.
THEA 3302 Creative Dramatics 3 hrs.
THEA 3311 Script Analysis 3 hrs.
THEA 3370 Theatre History I 3 hrs.
THEA 3371 Theatre History II 3 hrs.
THEA 3373 Principles of Design 3 hrs.
THEA 3375 Acting III: Period Styles 3 hrs.
THEA 4314 Collaborative Approaches to Design 3 hrs.
THEA 4360 Stage Direction I 3 hrs.
THEA 4361 Stage Direction II 3 hrs.

Total hours for BA in Theatre: Teacher Certification 48 hrs.

UNDERGRADUATE COURSES
All course descriptions are located in one section near the back of the catalog.
Urban Studies

Although this area does not offer the baccalaureate degree, it does offer an interdisciplinary minor.

MINOR IN URBAN STUDIES

This program offers students the opportunity to examine cities and urban life from an array of angles: historical, social, political, and even scientific. Students who select this minor must consult with and have the approval of the Urban Studies advisor to establish a plan of study. This should be done prior to completing 6 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. Students who need to take a course required below for their major may substitute an elective approved by the Urban Studies advisor.

Requirements: 18-19 hrs.
- HIST 3335 3 hrs.
- POLS 4311 3 hrs.
- SOCI 3316 3 hrs.

Designated Electives
3 hours from:
- CRIJ 3302
- CRIJ 3325
- CRIJ 4335 3 hrs.

3 hours from:
- HIST 4336
- POLS 4315
- SOCI 3312 3 hrs.

3 hours from:
A topics 4390 course, research seminar, or directed individual study, provided that this course has an urban focus and is approved in advance by the Urban Studies advisor, or:
- POLS 3341
- POLS 3342
- GISC 1470
- GEOL 3443 (a 4-hour course) 3-4 hrs.

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Women and Gender Studies

Although this area does not offer the baccalaureate, it does offer an interdisciplinary minor.

MINOR IN WOMEN AND GENDER STUDIES

This minor is an interdisciplinary program for undergraduate students who desire more in-depth or broad study than can be obtained in one or a few courses on the changing roles and statuses, issues, problems, and future prospects of men’s and women’s gender roles in contemporary American society. 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 course work 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 3301</td>
<td>Introduction to Women and Gender Studies</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>WGST 4380</td>
<td>Seminar in Women and Gender Studies</td>
<td>3 hrs.</td>
</tr>
</tbody>
</table>

Elective Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 3390*</td>
<td>Special Topics in Anthropology:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anthropology of Gender</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ARTS 4353</td>
<td>Topics in Art</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>BIOL 4590*</td>
<td>Selected Topics (3 semester hours)</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>BLAW 4390*</td>
<td>Current Topics in Business Law:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Women in the Workplace</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>COMM 4314</td>
<td>Gender Communication</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>COMM 4345</td>
<td>Intercultural Communication</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>CRIJ 4324</td>
<td>Women &amp; Criminal Justice</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>CRIJ 4360</td>
<td>Domestic Violence</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ENGL 3366</td>
<td>Language in Society (with approval)</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ENGL 4360</td>
<td>Women’s Literature</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ENGL 4361</td>
<td>Ethnic American Literature</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>ENGL 4390*</td>
<td>Topics in English</td>
<td>3-6 hrs.</td>
</tr>
<tr>
<td>HIST 4337</td>
<td>United States Women’s History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>HIST 4340</td>
<td>European Women’s History</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>MXAS 4390*</td>
<td>Topics in Mexican American Studies</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>NURS 4390*</td>
<td>Dimensions in Nursing: Women’s Health</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>POLS 3311</td>
<td>Women and Politics</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>PSYC 3374</td>
<td>Human Sexuality</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>PSYC 4390*</td>
<td>Topics in Psychology</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>SOCI 3320</td>
<td>Sociology of Gender</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>SOCI 3321</td>
<td>Mexican-American Women</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>SOCI 3340</td>
<td>Sociology of the Family</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>SPAN 4390*</td>
<td>Topics in Spanish</td>
<td>3 hrs.</td>
</tr>
</tbody>
</table>

* Topics courses (3390 and 4390) are limited to those approved by the program adviser as appropriate.
College of Nursing and Health Sciences

MISSION

The mission of the College of Nursing and Health Sciences is to educate the health care providers of today and leaders of tomorrow through the provision of excellent educational programs in the professions of nursing and the health sciences. The College identifies, attracts, and graduates students of high potential, especially those from groups who have been historically under represented in Texas health care. This mission is enhanced through faculty contributions to community service, leadership, practice, and research. These responsibilities are fostered within an interdisciplinary college by promoting a sense of community and caring, and through a system of shared governance.

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 nursing practice, cultivating basic and specialized abilities needed to successfully pursue a career.
2. To promote the concept of nursing as caring and facilitate attainment of a care delivery system sensitive to multicultural communities and their health values.
3. To offer individuals the opportunity to increase the breadth and depth of the theoretical base for nursing 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 serve the community as nursing experts, leaders and consultants in professional organizations, health promoters, providers of health care policy information and advocates of ethical distribution and usage 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)

Health Sciences

BACHELOR OF SCIENCE

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.

The expected outcomes required for the effective health administrator include the ability to:

- 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 persons into personnel located in FC 151 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
  o Date Verification (No Numbers please)
• HEALTH INFORMATION
  o Date of Last PPD (Within The Past Year)
  o Hepatitis B Vaccine Confirmation Date
  o Declined Date of Hepatitis B
  o MMR Immunizations
  o Varicella Titer Or Positive History Date
• EDUCATION
  o City Wide Orientation Completion Date AND/OR Hospital Orientation Date
• BACKGROUND INVESTIGATION
  o Social Security Number Date Verification (No SSN’s to be released)
  o Criminal Search Date: Up to 7 years, or Up to 5 searches
  o Date of HHS/OIG/GSA List of Excluded Individuals
  o Date of Texas HHS List of Excluded Individuals
  o Date of Violation Sexual Offender & Predator Registry

Verification of completion of the above must be presented by the student to the personnel in FC 150 prior to beginning HLSC 4680: Practicum.
BSHS Graduation Requirements

Degree Requirements

<table>
<thead>
<tr>
<th>A. Transfer Coursework*</th>
<th>84</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Health Science Major</td>
<td>36</td>
</tr>
<tr>
<td>Total</td>
<td>120</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLSC 3300 The Health Care Systems</td>
</tr>
<tr>
<td>HLSC 3310 Epidemiology</td>
</tr>
<tr>
<td>HLSC 3320 Marketing &amp; Transcultural Health Care</td>
</tr>
<tr>
<td>HLSC 3330 Financial Management in Health Care</td>
</tr>
<tr>
<td>HLSC 3340 Quantitative Methods in Health Care</td>
</tr>
<tr>
<td>HLSC 3350 Information Systems and Technology in Health Care</td>
</tr>
<tr>
<td>HLSC 3370 Complementary &amp; Alternative Medicine</td>
</tr>
<tr>
<td>HLSC 4300 Management &amp; Organization Behavior</td>
</tr>
<tr>
<td>HLSC 4310 Health Law</td>
</tr>
<tr>
<td>HLSC 4340 Quality Management &amp; Evaluation in Health Care</td>
</tr>
<tr>
<td>HLSC 4680 Practicum</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

Specialization Area

Students may complete a designated minor in the following areas:

- Geographic Information Systems 22 hrs.
- Computer Science 22 hrs.
- Mathematics 18 hrs.
- Business Administration 18 hrs.
- Accounting 18 hrs.
- Economics 18 hrs.
- International Business 18 hrs.
- Management Information Systems 18 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.

Health Science Minor

Students majoring in other academic fields who wish to earn a minor in Health Science must complete the following courses:

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLSC 3300 The Health Care Systems</td>
</tr>
<tr>
<td>HLSC 3310 Epidemiology</td>
</tr>
<tr>
<td>HLSC 3350 Information Systems and Technology in Health Care</td>
</tr>
<tr>
<td>HLSC 4310 Health Law</td>
</tr>
<tr>
<td>HLSC Electives</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Nursing

BACHELOR OF SCIENCE IN NURSING

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, 1998). To this purpose, baccalaureate students complete 66 semester hours in the liberal arts. In addition, they complete 60 semester hours in the nursing courses. Total program hours = 126.

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.

The expected outcomes for the Bachelor of Science Degree in Nursing are that graduates 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 before acceptance to the program is granted. See the BON 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 tract options are available – generic, accelerated, and eLine. Spring and summer admissions include the accelerated tract (students who have already received a bachelor degree) as well as the generic option. eLine is an online option designed to be self-paced. A course must be completed within three academic semesters (for specific progression information See College of Nursing & Health Sciences Student Handbook http://conhs.tamucc.edu/nursingstuhandbook).

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 a written application to the College of Nursing and Health Sciences See College of Nursing and Health Sciences web page for admission deadlines 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 admissions committee meets in three times a year to review applications and to make recommendations.

   c. 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.

   d. 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 University Core Curriculum Program (47 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 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 and support courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1406</td>
<td>Biology I</td>
</tr>
<tr>
<td>BIOL 2420</td>
<td>Principles of Microbiology</td>
</tr>
<tr>
<td>CHEM 1311</td>
<td>General Chemistry I &amp; CHEM 1111 General Chemistry Lab I</td>
</tr>
<tr>
<td>PSYC 2301</td>
<td>General Psychology</td>
</tr>
<tr>
<td>BIOL 2401</td>
<td>Anatomy and Physiology I</td>
</tr>
<tr>
<td>BIOL 2402</td>
<td>Anatomy and Physiology II</td>
</tr>
<tr>
<td>BIMS 3401</td>
<td>Pathophysiology or NURS 4322 Health Alterations</td>
</tr>
<tr>
<td>PSYC 2314</td>
<td>Life Span Developmental Psychology</td>
</tr>
<tr>
<td>MATH 1442</td>
<td>Statistics for Life</td>
</tr>
</tbody>
</table>
Students should consult the academic advisor and/or faculty advisor for additional information on core curriculum 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/.)

7. Eline students may take up to three academic semesters to complete a course (for specific progression information See College of Nursing & Health Sciences Student Handbook http://conhs.tamucc.edu/nursingstuhandbook.

8. Students may only apply for one track into the program. The students choice must be designated on the 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 non-accredited 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 (2), NURS 4390 Dimensions in Nursing (3), 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 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.”
2. “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.”
3. “Polio vaccine is not required. Students enrolled in health-related courses are encouraged to ascertain that they are immune to poliomyelitis”
4. “One dose of tetanus-diphtheria toxoid (Td) is required within the last ten years.”
5. “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 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 College of Nursing and Health Sciences at the time of 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/nursingstuhandbook.

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/nursingstuhandbook.

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.

Graduation Requirements

A. Generic (Basic) Option
   General Education/Support Courses 66
   Upper-Division Nursing Major 61
   Total 127

Nursing Competency Exit Examination
Generic BSN candidates for graduation are required to take this standardized Exit Exam in the last semester of their program of study. Students must pass the exam with a minimum score of 850 (the national standard) in order to graduate.

B. RN-BSN Completion Option
   General Education/Support Courses 63
   Nursing Validation/Articulation 30
   Nursing Upper-Division Course Work 36
   Total 129

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 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/nursingstuhandbook

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.)

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.

UNDERGRADUATE COURSES

All courses are located in one section near the back of the catalog.
College of Science and Technology

The College of Science and Technology 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 Faculty Center, Suite 179.

PURPOSE STATEMENT

The College of Science and Technology 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 recognize 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 Technology 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 Technology 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 Technology.

SCIENCE AND TECHNOLOGY DEGREE PROGRAMS

The College of Science and Technology offers course work leading to the following Bachelor of Science, Master of Science, and Doctor of Philosophy degrees:

<table>
<thead>
<tr>
<th>Field</th>
<th>Degree(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>BS, MS</td>
</tr>
<tr>
<td>Biomedical Science</td>
<td>BS</td>
</tr>
<tr>
<td>Chemistry</td>
<td>BS</td>
</tr>
<tr>
<td>Coastal and Marine System Science</td>
<td>PhD</td>
</tr>
<tr>
<td>Computer Science</td>
<td>BS, MS</td>
</tr>
<tr>
<td>Electrical Engineering Technology</td>
<td>BS</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>BS, MS</td>
</tr>
<tr>
<td>Fisheries and Mariculture</td>
<td>MS</td>
</tr>
<tr>
<td>Geographic Information Science</td>
<td>BS</td>
</tr>
<tr>
<td>Geography</td>
<td>(minor only)</td>
</tr>
<tr>
<td>Geology</td>
<td>BS</td>
</tr>
<tr>
<td>Geospatial Surveying Engineering</td>
<td>MS</td>
</tr>
<tr>
<td>Marine Biology</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>BS</td>
</tr>
<tr>
<td>Mariculture</td>
<td>MS</td>
</tr>
<tr>
<td>Mathematics</td>
<td>BS, MS</td>
</tr>
<tr>
<td>Mechanical Engineering Technology</td>
<td>BS</td>
</tr>
</tbody>
</table>

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 Technology

Each student entering the College must comply with the curriculum requirements of the University Core Curriculum Programs 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 Technology, 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
- 8-12 level Life Science
- 8-12 level Physical Science
- 8-12 level Computer Science
- 4-8 level Mathematics (College of Education)
- 8-12 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 8-12) 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 College of Education, “Admission to Teacher Education” and “Admission to Student Teaching” for other requirements.)

**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 Technology, and the Certification Officer of the College of Education for the degree to be granted.

**Biology**

**BACHELOR OF SCIENCE**

**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 include:

- 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.

**Requirements of the Undergraduate Biology Program:**

The requirements for a Bachelor of Science in Biology degree are a minimum of 120 semester credit hours: 45 are from designated University core curriculum courses, 31-33 are from biology core courses and 42-44 are from biology career track courses. Students
select one of eight biology career track areas: (A) Ecology, (B) Marine Biology, (C) Cell/Molecular Biology, (D) Microbiology, (E) Animal Biology, (F) Plant Biology, (G) Integrative Biology and (H) General Biology. The student should select a biology career track after completion of a minimum of 35 semester hours of university course work and no later than the completion of 50 semester hours. Students are strongly encouraged to take mathematics through Calculus I.

**General Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. First-Year Seminars (when applicable)*</td>
<td></td>
</tr>
<tr>
<td>II. University Core Curriculum**</td>
<td>45</td>
</tr>
<tr>
<td>III. Biology Core Courses</td>
<td>31-33</td>
</tr>
<tr>
<td>IV. Biology Career Track Courses</td>
<td>42-44</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>120 (122)</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

- UCCP 1101/UCCP 1102  First-Year Seminar I, II  2

**Three of these four-hour science and mathematics courses are required for all Biology 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 as a Biology Core or Biology Career Track requirement as appropriate. 120-123

**I. University Core Curriculum**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>45</td>
</tr>
</tbody>
</table>

**II. Biology Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1406 Biology I (included in University Core)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1407 Biology II (included in University Core)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2200 Professional Skills</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 2416 Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2421 Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4085 Major Field Test in Biology</td>
<td>0</td>
</tr>
<tr>
<td>BIOL 4292 Senior Biology Presentation</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 1311/1111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1312/1112 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3411 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3412 Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1442 Statistics for Life (included in University Core)</td>
<td>3</td>
</tr>
<tr>
<td>OR MATH 3342 Applied Probability and Statistics</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>31-33</td>
</tr>
</tbody>
</table>

**III. Biology Tracks**

Each of the tracks is designed to provide the student with specific background in a certain area of biology. The general biology and integrative biology tracks provide a broad background in the biological sciences.

Any of the tracks will prepare a student for careers in basic academic, governmental, or private sector research or consulting. Although some careers require only the B.S. degree, most require additional graduate training. Students should consult their faculty mentors to determine which track is most suitable for their career choice.

Each track consists of a core of required courses, with remaining 42-44 hours selected from a list of electives, to total 120 hours in the total degree (excluding First-Year Seminar). Students are strongly encouraged to consult with their faculty mentor when choosing the electives.
A. Ecology Track

This track focuses on the interaction of organisms with each other and with the physical environment. Students choosing this track will be preparing for careers in agriculture, environmental protection and conservation, natural resource management, habitat restoration, field ecology, outdoor recreation and public education.

I. Ecology Core Courses (24 Sem. Hrs.):

BIOL 2472 Principles of Botany
BIOL 3413 Invertebrate Zoology
BIOL 3414 Vertebrate Biology
BIOL 3428 Principles of Ecology
BIOL 4408 Microbial Diversity and Ecology
BIOL 4422 Plant Taxonomy

II. Ecology Electives (Choose 20 Sem. Hrs.):

BIOL 2371, BIOL 3300, BIOL 3425, BIOL 3430, BIOL 3455, BIOL 3479, BIOL 4350, BIOL 4371, BIOL 4405, BIOL 4407, BIOL 4409, BIOL 4411, BIOL 4413, BIOL 4425, BIOL 4428, BIOL 4431, BIOL 4432, BIOL 4433, BIOL 4436, BIOL 4442, BIOL 4444, MATH 2413, CHEM 4443, GEOL 3441, Selected Topics (BIOL 4590) with faculty mentor’s approval, up to eight (8) semester hours of unlisted electives approved by faculty mentor.

B. Marine Biology Track

This track focuses on organisms in marine and coastal systems. Students choosing this track will be preparing for careers in fisheries and aquaculture, coastal/marine management and conservation, outdoor recreation, aquatic science, marine zoology and marine animal care.

I. Marine Biology Core Courses (28 Sem. Hrs.):

BIOL 3413 Invertebrate Zoology
BIOL 3414 Vertebrate Biology
BIOL 3428 Principles of Ecology
BIOL 4429 Marine Botany
BIOL 4432 Ichthyology
BIOL 4436 Marine Ecology
BIOL 4444 Estuarine Organisms

II. Marine Biology Electives (Choose 16 Sem. Hrs.):

BIOL 2371, BIOL 2472, BIOL 3425, BIOL 3430, BIOL 3455, BIOL 3479, BIOL 4319, BIOL 4350, BIOL 4370, BIOL 4405, BIOL 4407, BIOL 4408, BIOL 4409, BIOL 4411, BIOL 4425, BIOL 4428, BIOL 4431, BIOL 4433, BIOL 4436, BIOL 4442, CHEM 4344, ESCI 3351, ESCI 4201, GEOL 3441, MATH 2413, Selected Topics (BIOL 4590) with faculty mentor’s approval, up to eight (8) semester hours of unlisted electives approved by faculty mentor.

C. Cell/Molecular Biology Track

This track focuses on the chemical, cellular, and tissue levels of biological organization. Students choosing this track will be preparing for careers in biotechnology, bioinformatics, hospital and research laboratory positions, industrial quality control, health care professions, and health-related sales.

I. Cell/Molecular Biology Core Courses (22 Sem. Hrs.):

BIOL 3345 Cell Physiology
BIOL 3403 Molecular Biology
BIOL 3410 Cell Biology
BIOL 4340 Genomics, Proteomics and Bioinformatics
CHEM 4401 Biochemistry I
CHEM 4402 Biochemistry II
II. Cell/Molecular Biology Electives (Choose 22 Sem. Hrs.):
  BIOL 2371, BIOL 2472, BIOL 3430, BIOL 3455, BIOL 4301, BIOL 4304, BIOL 4350,
  BIOL 4371, BIOL 4406, BIOL 4407, BIOL 4408, BIOL 4433, BIOL 4435, BIMS 3401,
  BIMS 4311, BIMS 4323, BIMS 4327, BIMS 4330, BIMS 4334, BIMS 4335, BIMS 4374,
  BIMS 4410, MATH 2413, PHYS 1401 or PHYS 2425, PHYS 1402 or PHYS 2426, Se-
  lected Topics (BIOL 4590) with faculty mentor’s approval, up to eight (8) semester hours
  of unlisted electives approved by faculty mentor.

D. Microbiology Track
This 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
  BIOL 4406 Immunology
  BIOL 4408 Microbial Diversity and Ecology
  BIMS 4374 Medical Microbiology
  CHEM 4401 Biochemistry I
  CHEM 4402 Biochemistry II

II. Microbiology Electives (Choose 21 Sem. Hrs.):
  BIOL 2371, BIOL 3345, BIOL 3410, BIOL 4304, BIOL 4340, BIOL 4350, BIOL 4407,
  BIOL 4429, BIOL 4433, BIOL 4435, BIMS 3401, BIMS 4370, BIMS 4375, BIMS 4378,
  HLSC 3310, MATH 2413, PHYS 1401 or PHYS 2425, PHYS 1402 or PHYS 2426, Se-
  lected Topics (BIOL 4590) with faculty mentor’s approval, up to eight (8) semester hours
  of unlisted electives approved by faculty mentor.

E. Animal Biology Track
This track focuses on the natural history, ecology, structure and function of animals.
Students choosing this track will be preparing for careers in wildlife management, conserva-
tion and protection, animal care, zoology, animal systematics, curation, agriculture, and
outdoor recreation.

I. Animal Biology Core Courses (19 Sem. Hrs.):
  BIOL 2371 Principles of Evolution
  BIOL 3413 Invertebrate Zoology
  BIOL 3414 Vertebrate Biology
  BIOL 3425 Functional Anatomy
  or BIOL 3430 Physiology
  BIOL 3428 Principles of Ecology

II. Animal Biology Electives (Choose 25 Sem. Hrs.):
  BIOL 3300, BIOL 3403, BIOL 3410, BIOL 4304, BIOL 4310, BIOL 4340 if not counted as core, BIOL 4350
  if not counted as core, BIOL 4301, BIOL 4319, BIOL 4350, BIOL 4371, BIOL 4409,
  BIOL 4411, BIOL 4413, BIOL 4425, BIOL 4428, BIOL 4431, BIOL 4432, BIOL
  4433, BIOL 4435, BIOL 4442, BIOL 4444, GEOL 3441, MATH 2413, Selected Topics
  (BIOL 4590) with faculty mentor’s approval, up to eight (8) semester hours of unlisted
  electives approved by faculty mentor.

F. Plant Biology Track
This track focuses on the natural history, ecology, structure and function of plants. Stu-
dents choosing this track will be preparing for careers in horticulture, plant health, plant
resources, plant systematics, biotechnology, curation, forestry, agriculture, habitat restora-
tion and education.
I. Plant Biology Core Courses (19 Sem. Hrs.):
- BIOL 2371 Principles of Evolution
- BIOL 2472 Principles of Botany
- BIOL 3455 Plant Form and Function
- BIOL 3479 Plant Ecology
- BIOL 4422 Plant Taxonomy

II. Plant Biology Electives (Choose 25 Sem. Hrs.):
- BIOL 3345, BIOL 3403, BIOL 3410, BIOL 4326, BIOL 4350, BIOL 4371, BIOL 4405, BIOL 4407, BIOL 4408, BIOL 4409, BIOL 4429, BIOL 4435, MATH 2413, Selected Topics (BIOL 4590) with faculty mentor’s approval, up to eight (8) semester hours of unlisted electives approved by faculty mentor.

G. Integrative Biology Track
This 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.

I. Integrative Biology Core Courses (15 Sem. Hrs.):
- BIOL 2371 Principles of Evolution
- BIOL 3410 Cell Biology
- BIOL 3425 Functional Anatomy
  or BIOL 3430 Physiology
  or BIOL 3455 Plant Form and Function
- BIOL 3428 Principles of Ecology
  or BIOL 3479 Plant Ecology

II. Integrative Biology Electives (Choose 29 Sem. Hrs.):
- BIOL 3300, BIOL 3345, BIOL 3403, BIOL 3425 if not counted as core, BIOL 3428 if not counted as core, BIOL 3430 if not counted as core, BIOL 3440 if not counted as core, BIOL 3446 if not counted as core, BIOL 4301, BIOL 4340, BIOL 4350, BIOL 4406, BIOL 4407, BIOL 4409, BIOL 4411, BIOL 4433, BIOL 4435, BIMS 3401, BIMS 4311, BIMS 4323, BIMS 4327, BIMS 4335, BIMS 4410, CHEM 4401, CHEM 4402, MATH 2413, PHYS 1401 or PHYS 2425, PHYS 1402 or PHYS 2426, Selected Topics (BIOL 4590) with faculty mentor’s approval, up to eight (8) semester hours of unlisted electives approved by faculty mentor.

H. General Biology Track
This track is designed to provide students with broad-based knowledge in all major areas of biology. Students choosing this track will be preparing for careers in teaching, scientific writing, technical advising, science law, public education, or biology sales.

I. General Biology Core Courses (31 Sem. Hrs.):
- BIOL 2371 Principles of Evolution
- BIOL 2472 Principles of Botany
- BIOL 3403 Molecular Biology
  or CHEM 4401 Biochemistry I
- BIOL 3410 Cell Biology
- BIOL 3413 Invertebrate Zoology
- BIOL 3414 Vertebrate Biology
- BIOL 3425 Functional Anatomy
  or BIOL 3430 Physiology
  or BIOL 3455 Plant Form and Function
- BIOL 3428 Principles of Ecology
II. General Biology Electives (Choose 13 Sem. Hrs.):

Any upper-division biology (BIOL) courses for which the appropriate prerequisites have been taken, CHEM 4401 if not counted as core, CHEM 4402, MATH 2413, PHYS 1401 or PHYS 2425, PHYS 1402 or PHYS 2426, Selected Topics (BIOL 4590) with faculty mentor’s approval, up to eight (8) semester hours of unlisted electives approved by faculty mentor.

BIOLOGY MINOR
(20 semester hours)

Students majoring in other academic fields wishing to earn a minor in biology must complete the following requirements.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1406     Biology I (included in University Core)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1407     Biology II (included in University Core)</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>8</td>
</tr>
<tr>
<td>Three from the following:</td>
<td></td>
</tr>
<tr>
<td>BIOL 2416     Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2421     Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3410     Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3413     Invertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3414     Vertebrate Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3428     Principles of Ecology</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>12</td>
</tr>
</tbody>
</table>

Alternative junior/senior biology courses may be used to satisfy the minor with prior approval of the Chair of the Department of Life Sciences. Biology courses for non-science majors cannot be used to fulfill the biology minor. At least six hours must be upper-level courses.

LIFE SCIENCE EDUCATION

Information on the life science education curriculum and requirements for teaching certification can be found in the Science, Mathematics and Technology Education section of the catalog (College of Science and Technology).

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.

CONTACT INFORMATION

Biology Program, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412-5800. Phone: (361) 825-2754. Web: http://lsci.tamucc.edu/biol

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Biomedical Sciences

BACHELOR OF SCIENCE

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 include:
• 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.

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 University Core Curriculum courses, 26 are from biomedical sciences core courses, and 49 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

<table>
<thead>
<tr>
<th></th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>First-Year Seminars (when applicable)*</td>
</tr>
<tr>
<td>II.</td>
<td>University Core Curriculum**</td>
</tr>
<tr>
<td>III.</td>
<td>Biomedical Sciences Core Courses</td>
</tr>
<tr>
<td>IV.</td>
<td>Biomedical Sciences Option Courses</td>
</tr>
<tr>
<td></td>
<td>Total</td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

UCCP 1101/UCCP 1102 First-Year Seminar I, II  2
**Three of these 4-hour science and mathematics courses are required for all Biomedical Sciences 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 as a Biomedical Sciences Core or Biomedical Sciences Option requirement as appropriate.**

I. University Core Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1406</td>
<td>Biology I (hours included in University Core)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1407</td>
<td>Biology II (hours included in University Core)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2416</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2421</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1311/1111</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1312/1112</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3411</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3412</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 45

II. Biomedical Sciences Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1406</td>
<td>Biology I (hours included in University Core)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1407</td>
<td>Biology II (hours included in University Core)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2416</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2421</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1311/1111</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1312/1112</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3411</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3412</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 26

III. 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 49 semester hours of course work. (Note: to apply for professional certification as a clinical laboratory scientist, a student must complete additional hours of post-baccalaureate 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIMS 2200</td>
<td>Professional Skills</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 4085</td>
<td>Major Field Test in Biology</td>
<td>0</td>
</tr>
<tr>
<td>MATH 1442</td>
<td>Statistics for Life (hours included in University Core)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 2413</td>
<td>Calculus I (hours included in University Core)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 3

Pre-Professional Option—Electives

Choose 46 semester credit hours from the electives listed below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIMS 2171</td>
<td>Medical Terminology</td>
</tr>
<tr>
<td>BIMS 2172</td>
<td>Introduction to Biomedical Careers</td>
</tr>
<tr>
<td>BIMS 3300</td>
<td>Animal Nutrition</td>
</tr>
<tr>
<td>BIMS 3401</td>
<td>Pathophysiology</td>
</tr>
<tr>
<td>BIMS 3403</td>
<td>Molecular Biology</td>
</tr>
<tr>
<td>BIMS 2170</td>
<td>Biomedical Seminar</td>
</tr>
<tr>
<td>BIMS 4295</td>
<td>Biomedical Practicum</td>
</tr>
<tr>
<td>BIMS 4299</td>
<td>Directed Independent Research</td>
</tr>
<tr>
<td>BIMS 4311</td>
<td>Biology of Cancer</td>
</tr>
<tr>
<td>BIMS 4323</td>
<td>Neurobiology</td>
</tr>
<tr>
<td>BIMS 4327</td>
<td>Introduction to Toxicology</td>
</tr>
<tr>
<td>BIMS 4330</td>
<td>Biological Basis of Aging</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>BIMS 4333</td>
<td>Medical Entomology</td>
</tr>
<tr>
<td>BIMS 4334</td>
<td>Human Genetics</td>
</tr>
<tr>
<td>BIMS 4335</td>
<td>Endocrinology</td>
</tr>
<tr>
<td>BIMS 4374</td>
<td>Medical Microbiology</td>
</tr>
<tr>
<td>BIMS 4375</td>
<td>Mechanisms of Microbial Pathogenesis</td>
</tr>
<tr>
<td>BIMS 4396</td>
<td>Directed Independent Study</td>
</tr>
<tr>
<td>BIMS 4406</td>
<td>Immunology</td>
</tr>
<tr>
<td>BIMS 4410</td>
<td>Histology</td>
</tr>
<tr>
<td>BIMS 4590</td>
<td>Selected Topics (with approval of faculty mentor)</td>
</tr>
<tr>
<td>BIOL 3345</td>
<td>Cell Physiology</td>
</tr>
<tr>
<td>BIOL 3410</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>BIOL 3425</td>
<td>Functional Anatomy</td>
</tr>
<tr>
<td>BIOL 3430</td>
<td>Physiology</td>
</tr>
<tr>
<td>BIOL 4301</td>
<td>Embryology</td>
</tr>
<tr>
<td>BIOL 4304</td>
<td>Biology of Viruses</td>
</tr>
<tr>
<td>BIOL 4340</td>
<td>Genomics, Proteomics, and Bioinformatics</td>
</tr>
<tr>
<td>BIOL 4350</td>
<td>Research and Design</td>
</tr>
<tr>
<td>BIOL 4407</td>
<td>Biology of the Fungi</td>
</tr>
<tr>
<td>BIOL 4408</td>
<td>Microbial Diversity and Ecology</td>
</tr>
<tr>
<td>BIOL 4433</td>
<td>Parasitology</td>
</tr>
<tr>
<td>BIOL 4435</td>
<td>Biological Microtechniques</td>
</tr>
<tr>
<td>CHEM 4320</td>
<td>Drugs, Toxins, and Natural Products Chemistry</td>
</tr>
<tr>
<td>CHEM 4401</td>
<td>Biochemistry I</td>
</tr>
<tr>
<td>CHEM 4402</td>
<td>Biochemistry II</td>
</tr>
<tr>
<td>MATH 2413</td>
<td>Calculus I (if not counted in the university core)</td>
</tr>
<tr>
<td>MATH 3342</td>
<td>Applied Probability and Statistics (unless student has credit for MATH 1442)</td>
</tr>
<tr>
<td>PHYS 1401</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHYS 1402</td>
<td>General Physics II</td>
</tr>
<tr>
<td>Other approved elective(s)</td>
<td></td>
</tr>
</tbody>
</table>

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:

- Introduction to Biomedical Careers (BIMS 2172) explores career fields in the biomedical sciences. To receive maximum benefit from this course, students should take it early in their academic careers (freshman or sophomore years).
- 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 non-listed 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 29-31 hours of required baccalaureate courses and 18-20 hours from the electives listed below. The range of numbers is based on a student’s choice of statistics courses; 120 is the total number of hours necessary for the degree (excluding First-Year Seminar). A student who takes MATH 3342 to fulfill the Pre-CLS Option requirement must first take MATH 2413; in this case, the 3 lecture hours of MATH 2413 will count as the University Core Mathematics requirement.

Pre-Clinical Laboratory Science Option—Required Baccalaureate Courses

<table>
<thead>
<tr>
<th>Sem.</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIMS 2171</td>
<td>Medical Terminology</td>
</tr>
<tr>
<td>BIMS 3102</td>
<td>Essentials Laboratory for Clinical Laboratory Science</td>
</tr>
<tr>
<td>BIMS 3202</td>
<td>Essentials for Applied Laboratory Sciences</td>
</tr>
<tr>
<td>BIMS 4406</td>
<td>Immunology</td>
</tr>
<tr>
<td>BIOL 3430</td>
<td>Physiology</td>
</tr>
<tr>
<td>CHEM 4401</td>
<td>Biochemistry I</td>
</tr>
<tr>
<td>CHEM 4402</td>
<td>Biochemistry II</td>
</tr>
<tr>
<td>MATH 1442</td>
<td>Statistics for Life (hours included in University Core) (3)</td>
</tr>
<tr>
<td>OR MATH 3342</td>
<td>Applied Probability and Statistics</td>
</tr>
<tr>
<td>PHYS 1401</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHYS 1402</td>
<td>General Physics II</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
</tr>
</tbody>
</table>

Pre-Clinical Laboratory Science Option—Electives

Choose 18-20 semester credit hours from the electives listed below:

<table>
<thead>
<tr>
<th>Sem.</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIMS 4182*</td>
<td>Seminar-Clinical Correlations</td>
</tr>
<tr>
<td>BIMS 4297*</td>
<td>Professional Practicum I</td>
</tr>
<tr>
<td>BIMS 4325</td>
<td>Clinical Chemistry I</td>
</tr>
<tr>
<td>BIMS 4326</td>
<td>Clinical Chemistry II</td>
</tr>
<tr>
<td>BIMS 4331</td>
<td>Clinical Immunology I</td>
</tr>
<tr>
<td>BIMS 4332</td>
<td>Clinical Immunology II</td>
</tr>
<tr>
<td>BIMS 4365</td>
<td>Hematology I</td>
</tr>
<tr>
<td>BIMS 4366</td>
<td>Hematology II</td>
</tr>
<tr>
<td>BIMS 4370</td>
<td>Medical Bacteriology</td>
</tr>
<tr>
<td>BIMS 4374</td>
<td>Medical Microbiology</td>
</tr>
<tr>
<td>BIMS 4378</td>
<td>Advanced Medical Microbiology</td>
</tr>
<tr>
<td>BIMS 4380*</td>
<td>Introduction to the Clinical Laboratory Profession</td>
</tr>
<tr>
<td>BIMS 4382*</td>
<td>Advanced Medical Laboratory Procedures</td>
</tr>
<tr>
<td>BIMS 4384*</td>
<td>Professional Skills for Clinical Laboratory Science</td>
</tr>
<tr>
<td>BIMS 4598*</td>
<td>Professional Practicum II</td>
</tr>
<tr>
<td>BIMS 4599*</td>
<td>Professional Practicum III</td>
</tr>
<tr>
<td>MATH 2413</td>
<td>Calculus I (Partially included in University Core)</td>
</tr>
</tbody>
</table>

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 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 and an application 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 laboratories office. An interview and reference letters may be required. Contact a clinical laboratory science faculty mentor for additional information.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIMS 2200</td>
<td>Professional Skills</td>
<td>2</td>
</tr>
<tr>
<td>BIMS 3103</td>
<td>Essentials Laboratory for Forensic Science</td>
<td>1</td>
</tr>
<tr>
<td>BIMS 3202</td>
<td>Essentials for Applied Laboratory Sciences</td>
<td>2</td>
</tr>
<tr>
<td>BIMS 3320</td>
<td>Survey of Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>BIMS 3325</td>
<td>Professional Practice in Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>BIMS 4340</td>
<td>Forensic Science in Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3418</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CRIJ 4340</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1442</td>
<td>Statistics for Life</td>
<td>3-4</td>
</tr>
<tr>
<td>or MATH 3342</td>
<td>Applied Probability and Statistics</td>
<td></td>
</tr>
<tr>
<td>MATH 2413</td>
<td>Calculus I (hours included in University Core)</td>
<td>(3) 1</td>
</tr>
<tr>
<td>PHYS 2425</td>
<td>University Physics I (preferred)</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 1401</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 2426</td>
<td>University Physics II (preferred)</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 1402</td>
<td>General Physics II</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>33-34</td>
</tr>
</tbody>
</table>
Forensic Science Option—Electives

Choose 15-16 semester credit hours from the electives listed below, including at least one course identified with an asterisk (*):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIMS 3401</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>BIMS 3403*</td>
<td>Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIMS 4295</td>
<td>Biomedical Practicum</td>
<td>2</td>
</tr>
<tr>
<td>BIMS 4299</td>
<td>Directed Independent Research 1-2</td>
<td></td>
</tr>
<tr>
<td>BIMS 4325</td>
<td>Clinical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>BIMS 4326</td>
<td>Clinical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>BIMS 4327</td>
<td>Introduction to Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>BIMS 4333</td>
<td>Medical Entomology</td>
<td>3</td>
</tr>
<tr>
<td>BIMS 4396</td>
<td>Directed Independent Study 1-3</td>
<td></td>
</tr>
<tr>
<td>BIMS 4406</td>
<td>Immunology</td>
<td>4</td>
</tr>
<tr>
<td>BIMS 4410</td>
<td>Histology</td>
<td>4</td>
</tr>
<tr>
<td>BIMS 4590</td>
<td>Selected Topics (with approval of faculty mentor)</td>
<td>1-5</td>
</tr>
<tr>
<td>BIOL 2472</td>
<td>Principles of Botany</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3410*</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3425</td>
<td>Functional Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3430</td>
<td>Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4340</td>
<td>Genomics, Proteomics, and Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4350</td>
<td>Research and Design</td>
<td>1-3</td>
</tr>
<tr>
<td>BIOL 4371</td>
<td>Population Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4407</td>
<td>Biology of the Fungi</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4433</td>
<td>Parasitology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4435</td>
<td>Biological Microtechniques</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3417*</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4320</td>
<td>Drugs, Toxins, and Natural Products Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4401*</td>
<td>Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4402</td>
<td>Biochemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4407*</td>
<td>Advanced Inorganic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4409</td>
<td>Advanced Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4420</td>
<td>Physical Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4423*</td>
<td>Physical Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4424</td>
<td>Physical Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3301</td>
<td>Principles of Professional and Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENTC 2403</td>
<td>Statics and Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2414*</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Other approved elective(s)</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

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. Thus, a BIMS 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.

RELATED PROGRAMS

Numerous undergraduate programs complement a major in Biomedical Sciences. In addition to the “traditional” partners (Biology, Chemistry, Physics), students should also
Chemistry

BACHELOR OF SCIENCE

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 8-12 level, or who need chemical knowledge and skills relevant to future studies in the sciences.

Student learning outcomes include:

• 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 8-12 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 Technology: 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 Major Field Test in Chemistry (CHEM 4085) during their senior year, prior to graduation. The details of the general, environmental, and biochemistry concentrations follow.

I. General Requirements

<table>
<thead>
<tr>
<th></th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. First-Year Seminars (when applicable)*</td>
<td>2</td>
</tr>
<tr>
<td>II. University Core Curriculum**</td>
<td>45</td>
</tr>
<tr>
<td>III. Special Foundations</td>
<td>19</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IV.</td>
<td>Chemistry Major 52</td>
</tr>
<tr>
<td>V.</td>
<td>Electives 4</td>
</tr>
<tr>
<td>Total</td>
<td>120 (122)</td>
</tr>
</tbody>
</table>

**First Year Seminars**

**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 Program. Some of the Core Curriculum courses may also be included in the Special Foundations requirements.

**II. Special Foundations**

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. General Concentration</td>
<td>8**</td>
</tr>
<tr>
<td>PHYS 2425 &amp; 2426</td>
<td>University Physics I &amp; II</td>
</tr>
<tr>
<td>Biology, Geology, or Environmental Science</td>
<td>8**</td>
</tr>
<tr>
<td>MATH 2413, 2414 &amp; 3470</td>
<td>Calculus I, II, &amp; III</td>
</tr>
<tr>
<td>Total</td>
<td>16-28**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Environmental Concentration</td>
<td>8</td>
</tr>
<tr>
<td>Physics, one year with laboratory</td>
<td></td>
</tr>
<tr>
<td>Biology, Geology, or Environmental Science</td>
<td>8**</td>
</tr>
<tr>
<td>MATH 1442</td>
<td>Statistics for Life</td>
</tr>
<tr>
<td>MATH 2413</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 2414</td>
<td>Calculus II</td>
</tr>
<tr>
<td>Total</td>
<td>16-28**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-1. Biochemistry Concentration</td>
<td>8</td>
</tr>
<tr>
<td>Physics, one year with laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 1406 &amp; 1407</td>
<td>Biology I &amp; II</td>
</tr>
<tr>
<td>MATH 1442</td>
<td>Statistics for Life</td>
</tr>
<tr>
<td>MATH 2413 &amp; 2414</td>
<td>Calculus I &amp; II</td>
</tr>
<tr>
<td>Total</td>
<td>16-28**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-2. Biochemistry Concentration / Pre-Clinical Chemistry Certification</td>
<td>8*</td>
</tr>
<tr>
<td>Physics, one year with laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 1406** &amp; 1407**</td>
<td>Biology I &amp; II</td>
</tr>
<tr>
<td>MATH 1442</td>
<td>Statistics for Life</td>
</tr>
<tr>
<td>MATH 2413** &amp; 2414</td>
<td>Calculus I &amp; II</td>
</tr>
<tr>
<td>Total</td>
<td>16-28*</td>
</tr>
</tbody>
</table>

**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.

### III. Chemistry Major

#### A. Chemistry General Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1311/1111 &amp; 1312/1112</td>
<td>General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 3411 &amp; 3412</td>
<td>Organic Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 3417</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3418</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4292</td>
<td>Senior Chemistry Seminar</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 4423 &amp; 4424</td>
<td>Physical Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 4401</td>
<td>Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4407</td>
<td>Advanced Inorganic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4085</td>
<td>Major Field Test in Chemistry</td>
<td>0</td>
</tr>
</tbody>
</table>

Students should select 10 hours from the following courses:

- CHEM 4443: Environmental Chemistry
- CHEM 4402: Biochemistry II
- CHEM 4409: Advanced Instrumental Analysis
- CHEM 4350: Polymer Chemistry
- CHEM 4344: Chemical Oceanography
- CHEM 4490: Special Topics
- CHEM 4696: Directed Independent Research
- CHEM 4320: Drugs, Toxins and Natural Products Chemistry

Total: 52

#### B. Environmental Chemistry Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1311/1111 &amp; 1312/1112</td>
<td>General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 3411 &amp; 3412</td>
<td>Organic Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 3417</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3418</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4292</td>
<td>Senior Chemistry Seminar</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 4423 &amp; 4424</td>
<td>Physical Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 4443</td>
<td>Environmental Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4344</td>
<td>Chemical Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4085</td>
<td>Major Field Test in Chemistry</td>
<td>0</td>
</tr>
</tbody>
</table>

Students should select 12 hours from the following courses:

- CHEM 4407: Advanced Inorganic Chemistry
- CHEM 4409: Advanced Instrumental Analysis
- CHEM 4350: Polymer Chemistry
- CHEM 4490: Special Topics
- CHEM 4696: Directed Independent Research
- ESCI 4301: Environmental Regulations
- ESCI 4330: Oil Spill Management
- ESCI 4370: Hazardous Waste Management

Total: 52

#### C-1. Biochemistry Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1311/1111 &amp; 1312/1112</td>
<td>General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>BIOL 2416</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2421</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3411 &amp; 3412</td>
<td>Organic Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 3417</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3418</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4401 &amp; 4402</td>
<td>Biochemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 4420</td>
<td>Physical Biochemistry</td>
<td>4</td>
</tr>
</tbody>
</table>
CHEM 4292  Senior Chemistry Seminar 2
CHEM 4085  Major Field Test in Chemistry 0
Biochemistry related courses as approved by advisor 6
Total 52

C-2. Biochemistry Concentration / Pre-Clinical Chemistry Certification
CHEM 1311/1111 & 1312/1112  General Chemistry 8
BIOL 2416  Genetics 4
BIOL 2421  (Microbiology), BIOL 3430 (Physiology),
or BIMS 3401  (Pathophysiology) 4
CHEM 3411 & 3412  Organic Chemistry 8
CHEM 3417  Quantitative Analysis 4
CHEM 3418  Instrumental Analysis 4
CHEM 4401 & 4402  Biochemistry 8
CHEM 4420  Physical Biochemistry 4
CHEM 4085  Major Field Test in Chemistry 0
Total 44

Pre-Clinical Chemistry
BIMS 2171  Medical Terminology 1
*BIMS 3101/3102  Essentials for CLS 3
*BIMS 4297  Prof. Practicum I 2
*BIMS 4325  Clinical Chemistry I 3
*BIMS 4326  Clinical Chemistry II 3
*BIMS 4380  Introduction CLS 3
*BIMS 4382  Adv. Lab. Procedures 3
Total 18

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 Technology: Science, Mathematics and Technology Education section of the catalog.

IV. 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.

V. Minor in Chemistry
Students majoring in other academic fields who wish to earn a minor in chemistry must complete the following requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1311/1111, 1312/1112</td>
<td>General Chemistry I, II 8</td>
</tr>
<tr>
<td>CHEM 3411, 3412</td>
<td>Organic Chemistry I, II 8</td>
</tr>
<tr>
<td>One from the following:</td>
<td></td>
</tr>
<tr>
<td>CHEM 3417</td>
<td>Quantitative Analysis 4</td>
</tr>
<tr>
<td>CHEM 3418</td>
<td>Instrumental Analysis</td>
</tr>
<tr>
<td>Advanced CHEM elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>23</td>
</tr>
</tbody>
</table>

CONTACT INFORMATION
Chemistry Program, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412-5850. Phone: (361) 825-2681. Web: http://pens.tamucc.edu/chem.

UNDERGRADUATE COURSES
All course descriptions are located in one section near the back of the catalog.
Computer Science

BACHELOR OF SCIENCE

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. The program has been structured to ensure that all students at the time of their graduation will be able to:

- have a thorough understanding of personal and professional ethics; and
- effectively communicate computing problems and solutions in both oral and written formats; and
- have demonstrated the ability to apply mathematical knowledge to software design problems; and
- have demonstrated the ability to analyze, design and implement software systems using accepted software engineering principles; and
- be able to design, conduct, and evaluate experiments using appropriate data sets to test software under development; and
- have demonstrated the ability to effectively function on a team using current software engineering tools and techniques to design and implement software systems; and
- 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 120-122 semester hours with a minimum of 45 upper-division hours. The total is divided among the following groups: University Core Curriculum, Major Curriculum, and Electives.

There are three options for the degree, the Computer Information Systems Option, the Systems Programming Option, and the Computer Science Education Option. Besides the University Core Curriculum, all options also share a common major curriculum that consists of 37 semester hours in computer science and mathematics.

Curricular Requirements for Computer Science

A summary of the required hours follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>O. First-Year Seminars (when applicable)</td>
<td>(2)</td>
</tr>
<tr>
<td>I. University Core</td>
<td>45</td>
</tr>
<tr>
<td>II. Major Curriculum for All Options</td>
<td>38</td>
</tr>
<tr>
<td>III. Courses Specific to Each Option</td>
<td>37-39</td>
</tr>
<tr>
<td>IV. Total Hours (minimum)</td>
<td>120-122</td>
</tr>
</tbody>
</table>

The specific requirements for each option of the Bachelor of Science degree in Computer Science follow:

O. First-Year Seminars (when applicable)

Full-time, first-year students are required to take
UCCP 1101/UCCP 1102 First-Year Seminar I, II (2)
### I. University Core

See “University Core Curriculum Programs”

Specific requirements for this degree:
- MATH 2413 Calculus I (lecture component) 3
- Other 42

Subtotal 45

### II. Major Curriculum for All Options

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 1435</td>
<td>Introduction to Problem Solving with Computers I</td>
<td>4</td>
</tr>
<tr>
<td>COSC 1436</td>
<td>Introduction to Problem Solving with Computers II</td>
<td>4</td>
</tr>
<tr>
<td>COSC 2334</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COSC 2437</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>COSC 3336</td>
<td>Introduction to Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>COSC 3346</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>COSC 3370</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COSC 3400</td>
<td>Skills for Computing Professionals</td>
<td>4</td>
</tr>
<tr>
<td>COSC 4354</td>
<td>Senior Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td><em>MATH 2413</em></td>
<td>Calculus I (lecture component included in University Core) (3)</td>
<td></td>
</tr>
<tr>
<td><em>MATH 2413</em></td>
<td>Calculus I (laboratory component)</td>
<td>1</td>
</tr>
<tr>
<td><em>MATH 2305</em></td>
<td>Discrete Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td><em>MATH 3342</em></td>
<td>Applied Probability &amp; Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Subtotal 38

*These are supporting courses that can be used toward a minor in mathematics.

### III. Courses Specific to Each Option

#### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 2470</td>
<td>COBOL Programming</td>
<td>4</td>
</tr>
<tr>
<td>COSC 3324</td>
<td>Object Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4342</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>Approved upper-division Computer Science electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Minor Courses</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Subtotal 37

#### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 3324</td>
<td>Object Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>COSC 3353</td>
<td>Survey of Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4342</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4348</td>
<td>Systems Programming</td>
<td>3</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COSC 4328</td>
<td>Computer Graphics</td>
<td></td>
</tr>
<tr>
<td>Approved upper-division MATH elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Approved upper-division Natural Science elective 3
One of:
COSC 4353 Compiler Construction
COSC 4360 Theory of Programming Languages
COSC 4370 Formal Languages, Grammars, and Automata 3
Approved upper-division Computer Science electives 6
MATH 2414 Calculus II 4
MATH 4328 Discrete Mathematics II 3
Choose laboratory science Group 1 or Group 2:
Group 1
CHEM 1311 General Chemistry I (included in University Core) 3
CHEM 1111 General Chemistry Lab I 1
CHEM 1312 General Chemistry II (included in University Core) 3
CHEM 1112 General Chemistry Lab II 1
Group 2
PHYS 2425 University Physics I (lecture component included in University Core) 3
PHYS 2425 University Physics I (laboratory component) 1
PHYS 2426 University Physics II (lecture component included in University Core) 3
PHYS 2426 University Physics II (laboratory component) 1
Approved Natural Science elective at or above the 2000 level 4
Subtotal 37
35

C. 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 8-12) in computer science. See the Science, Mathematics and Technology Education section of this catalog for a description of that option.

Computer Science courses 12
Professional Development and Reading Sequence 27
Subtotal 39

IV. Total Hours (minimum) 120-122

Suggested Course of Study
Students should see their academic advisor in the College of Science and Technology 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
COSC 1435 Introduction to Problem Solving with Computers I 4
MATH 2305 Discrete Mathematics I 3
Total Hours 14
Spring
Triad 7
COSC 1436 Introduction to Problem Solving with Computers II 4
MATH 2413 Calculus I 4
Total Hours 15
Sophomore Year

Fall
COSC 2437  Data Structures  4
MATH 2414  Calculus II   4
COSC 2334  Computer Architecture  3
MATH 3342  Applied Probability and Statistics  3
Total Hours  14

Spring
COSC 3336  Introduction to Database Systems  3
University Core  6
COSC 3370  Software Engineering  3
COSC 3400  Skills for Computing Professionals  4
Total Hours  16

Junior Year

Fall
COSC 3346  Operating Systems  3
MATH 4328  Discrete Mathematics II  3
COSC 3353  Survey of Programming Languages  3
Core Science  4
University Core  3
Total Hours  16

Spring
COSC 3324  Object-Oriented Programming  3
COSC Elective  3
COSC Elective  3
Core Science  4
University Core  3
Total Hours  16

Senior Year

Fall
COSC 4328  Computer Graphics or Math Elective or Science Elective  3
COSC 4342  Computer Networks  3
University Core  6
Science Elective  4
Total Hours  16

Spring
COSC 4354  Senior Capstone Project  3
COSC 4348  Systems Programming  3
COSC Elective  3
University Core  6
Total Hours  15

Minor

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.
MINOR IN COMPUTER SCIENCE

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 1435</td>
<td>Introduction to Problem Solving with Computers I</td>
<td>4</td>
</tr>
<tr>
<td>COSC 1436</td>
<td>Introduction to Problem Solving with Computers II</td>
<td>4</td>
</tr>
<tr>
<td>COSC 2437</td>
<td>Data Structures*</td>
<td>4</td>
</tr>
<tr>
<td>Computer Science electives (at or above the 3000 level)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

*It is assumed that the student has completed all mathematics prerequisites and corequisites for the required courses.

CONTACT INFORMATION

Computer Science Program, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412-5824. Phone: (361) 825-2474. Web: http://csci.tamucc.edu/cosc/

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog. More information on the courses and when they are offered can be found on the department’s website.

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 education focuses primarily on the applied aspects of science and engineering aimed at preparing graduates for practice in that portion of the technological spectrum closest to product improvement, manufacturing, and engineering operational functions. Graduates of bachelors engineering technology programs are referred to as “engineering technologists.” Engineering technologists are ideally suited for industries that deal with application, manufacturing, implementation, engineering operation, sales and production.

The Engineering Technology unit offers two four-year degree programs: Electrical Engineering Technology (EET) and Mechanical Engineering Technology (MET). The EET program includes three options: Control Systems, Electronic Systems, and Computer Systems. The goal of the Engineering Technology programs is to prepare well educated, highly skilled, and socially and professionally responsible engineering technologists from a diverse population of students so that they can have productive and rewarding careers at local, state and national levels. Graduates will be well grounded in the fundamentals of engineering, mathematics, science, communications, and problem solving. To continuously improve the quality of education, the programs utilize input from employers, alumni, and an industry advisory board. Both engineering technology degree programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012.

ELECTRICAL ENGINEERING TECHNOLOGY

Bachelor of Science

The objective of the Electrical Engineering Technology Program is to educate students to be practical and qualified engineering technologists who have the technical and managerial
skills necessary to enter careers in the design, application, installation, manufacturing, operation and/or maintenance of electrical/electronics systems.

**Student Learning Outcomes**

- Use modern tools and software packages to analyze, design, and program electrical systems;
- Apply scientific, engineering, and technological concepts for the analysis, design, development, and operation of electrical systems;
- Conduct, analyze, and interpret experiments and apply experimental results to improve processes;
- Identify, analyze, and solve technical problems;
- Function effectively on teams;
- Develop plans for implementing quality projects on time and within budget;
- Write quality project reports and deliver oral presentations which are appropriate for technical audiences;
- Understand professional, ethical, social, and global responsibilities;
- Engage in life-long learning and professional development activities.

Courses in Engineering Technology 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:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. University Core Curriculum and other General Education Requirements</td>
</tr>
<tr>
<td>University Core Curriculum</td>
</tr>
<tr>
<td>*First-Year Seminar</td>
</tr>
<tr>
<td>II. Common Engineering Technology courses</td>
</tr>
<tr>
<td>III. Common Electrical Engineering Technology courses</td>
</tr>
<tr>
<td>IV. Major Option Courses</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

*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 on the following pages.

**I. University Core Curriculum and Other General Education Requirements**

See “University Core Curriculum Program” in this catalog. Engineering Technology students are to take the following University Core Curriculum courses:

| MATH 2413 Calculus I (lecture component) | 3 |
| PHYS 2425 University Physics I (lecture component) | 3 |
| PHYS 2426 University Physics II (lecture component) | 3 |

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 |
| UCCP 1102 First-Year Seminar II | 1 |
II. Common Engineering Technology Courses

### MATH 2413  (lab component)  1
### PHYS 2425  (lab component)  1
### PHYS 2426  (lab component)  1
### MATH 2414 Calculus II  4
### ENTC 1303 Introduction to Engineering Technology  3
### ENTC 1304 Engineering Design Graphics  3
### CHEM 1111/1311 General Chemistry I  4
### COSC 1435 Introduction to Problem Solving with Computers  4
### ENTC 4415 Project Justification and Management  4
### ENTC 4350 Capstone Projects  3
### MATH 2312 Pre-Calculus  3

III. Common Electrical Engineering Technology Courses

### ENTC 2350  Introduction to Thermal Science  3
### ENTC 2414 Circuit Analysis I  4
### ENTC 3415 Circuit Analysis II  4
### ENTC 3416 Digital Fundamentals  4
### ENTC 3418 Microprocessors/Microcontrollers  4
### ENTC 3444 Electronic Devices and Circuits I  4
### ENTC 4322 Programmable Logic Controllers  3
### ENTC 3445 Electronic Devices and Circuits II  4
### ENTC 3450 Electronic System Design  4
### ENTC 4446 Control Systems I  4

IV. Technical Elective Block (select three courses from the following list)

### ENTC 3323  Robotics & Automation  3
### ENTC 4335  Energy Conversion  3
### ENTC 4448  Control Systems II  4
### ENTC 4420  Embedded Systems  4
### ENTC 4430  Power Transmission & Distribution  4
### ENTC 4435  Power Protection Systems  4

MECHANICAL ENGINEERING TECHNOLOGY

Bachelor of Science

The objective of the Mechanical Engineering Technology program is to educate students to be practical and qualified engineering technologists who have the knowledge, problem solving ability, and hands-on skills to enter careers in the design, installation, manufacturing, testing, evaluation, technical sales, and/or maintenance of mechanical systems.

Student Learning Outcomes:

- Use modern tools and software packages to analyze and design mechanical systems
- Apply scientific, engineering, and technological concepts for the analysis, design, development, and operation of mechanical and manufacturing systems;
- Conduct, analyze, and interpret experiments and apply experimental results to improve processes;
- Identify, analyze, and solve technical problems;
- Function effectively on teams;
- Develop plans for implementing quality projects on time and within budget;
- Write quality project reports and deliver oral presentations which are appropriate for technical audience;
- Understand professional, ethical, social, and global responsibilities;
- Engage in life-long learning and professional development activities.
Courses in Engineering Technology 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:

I. University Core Curriculum and other General Education Requirements 45
II. First-Year Seminar 2
III. Common Engineering Technology courses 31
IV. Common Mechanical Engineering Technology courses 38
V. Technical Elective Block 9

Total 123 (125)

*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 on the following pages.

I. University Core Curriculum and other General Education Requirements

See “University Core Curriculum Program” in this catalog. Engineering Technology students are to take the following University Core Curriculum courses:

- MATH 2413 Calculus I (lecture component) 3
- PHYS 2425 University Physics I (lecture component) 3
- PHYS 2426 University Physics II (lecture component) 3

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
- UCCP 1102 First-Year Seminar II 1

II. Common Engineering Technology Courses

- MATH 2413 (lab component) 1
- PHYS 2425 (lab component) 1
- PHYS 2426 (lab component) 1
- MATH 2414 Calculus II 4
- ENTC 1303 Introduction to Engineering Technology 3
- ENTC 1304 Engineering Design Graphics 3
- CHEM 1111/1311 General Chemistry I 4
- COSC 1435 Introduction to Problem Solving with Computers 4
- ENTC 4415 Project Justification and Management 4
- ENTC 4350 Capstone Projects 3
- MATH 2312 Pre-Calculus 3

III. Common Mechanical Engineering Technology Courses

- ENTC 2402 Manufacturing Processes 4
- ENTC 2403 Statics and Dynamics 4
- ENTC 2418 Introduction to Electronics 4
- ENTC 3410 Material Science 4
- ENTC 3408 Strength of Materials 3
- ENTC 3420 Thermodynamics 4
- ENTC 3406 Fluid Mechanics and Fluid Power 4
- ENTC 3455 Solid Modeling Applications 4
- ENTC 4320 Heat Transfer 3
- ENTC 4432 Design of Machine Elements 4
IV. Technical Elective Block (select three courses from the following list)

ENTC 3323  Robotics & Automation    3
ENTC 4322  Programmable Logic Devices   3
ENTC 4335  Energy Conversion          3
ENTC 4336  Reliability and Maint. of Industrial Equipment  3
ENTC 4360  Mechanical System Design   3

MINORS

Minor in Electrical Engineering Technology
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 Technology.

Required courses:
ENTC 2418  Introduction to Electronics    4
ENTC 3416  Digital Fundamentals          4
ENTC 3323  Robotics and Automation       3
ENTC 3444  Electronic Devices and Circuits I 4
ENTC 4322  Programmable Logic Controllers 3

Minor in Mechanical Engineering Technology
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 Technology.

Required courses:
ENTC 2402  Manufacturing Processes       4
ENTC 2403  Statics and Dynamics          4
ENTC 2418  Introduction to Electronics   4
ENTC 3320  Thermodynamics                 4
ENTC 4335  Energy Conversion              3
Total  19

CONTACT INFORMATION
Engineering Technology Program, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412-5797. Web: http://entc.tamucc.edu/

UNDERGRADUATE COURSES
All course descriptions are located in one section near the back of the catalog.
Environmental Science

BACHELOR OF SCIENCE

I. 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:
• 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.

II. Environmental Science Major
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 Technology 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 124 hours. The degree requirements are divided among the following areas:

<table>
<thead>
<tr>
<th>A. University Core</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Foundation Courses</td>
<td>27</td>
</tr>
<tr>
<td>D. Concentration Area</td>
<td>30</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>124 (126)</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

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

| Core Curriculum | 45 |

243
See the catalog section on University Core Curriculum Programs. The core science courses should be Environmental Science I (ESCI 1401) and Environmental Science II (ESCI 1402). The mathematics course should be Statistics for Life (MATH 1442) or Calculus I (MATH 2413), depending on concentration area. Please consult the faculty advisor for specific details.

First-Year Seminars or Electives
Full-time, first-year students are required to take the following courses:

UCCP 1101/UCCP 1102  First-Year Seminar I, II  2

B. Foundation Courses
No foundation courses may be taken on a pass/no pass (P/NP) basis.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCI 1401</td>
<td>Environmental Science I: Introduction to Environmental Science (hours included in University Core)*</td>
<td>4</td>
</tr>
<tr>
<td>ESCI 1402</td>
<td>Environmental Science II: Systems and Applications (hours included in University Core)*</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1406</td>
<td>Biology I</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1403</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1311/1111 &amp; 1312/1112</td>
<td>General Chemistry I, II</td>
<td>8</td>
</tr>
</tbody>
</table>

Choose one – depends on concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1401</td>
<td>Physics I or</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2425</td>
<td>University Physics</td>
<td></td>
</tr>
<tr>
<td>GISC 1470</td>
<td>Geospatial Systems I</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 24

C. Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCI 3202</td>
<td>Professional Skills</td>
<td>2</td>
</tr>
<tr>
<td>ESCI 3351</td>
<td>Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 3403</td>
<td>Meteorology</td>
<td>4</td>
</tr>
<tr>
<td>ESCI 4335</td>
<td>Climate and Climate Variability</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 4498</td>
<td>Internship</td>
<td>2</td>
</tr>
</tbody>
</table>

Choose two (requires written approval of faculty mentor):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3443</td>
<td>Environmental Biology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3443</td>
<td>Environmental Geology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4443</td>
<td>Environmental Chemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 24

D. Concentration Area

Students must take a total of 30 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2426</td>
<td>University Physics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2414</td>
<td>Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 30
MATH 3311 Linear Algebra 3
MATH 3342 Applied Probability and Statistics 3
One of the following:
   CHEM 3411 Organic Chemistry I or
   CHEM 4423 Physical Chemistry I 4
Designated Electives 12

Additional hours selected from the following list, with written approval of a student’s faculty mentor. Must include at least 12 upper-level hours.
   BIOL 3428 Ecology
   ESCI 4360 Physical Oceanography
   MATH 2305 Discrete Mathematics
   MATH 3315 Differential Equations
   MATH 3470 Calculus III
   GEOL 3442 Geomorphology
   GEOL 4316 Marine Geoscience
   GEOL 4411 Sediment./Stratigraphy
   GEOL 4444 Hydrogeology
   GISC 3421 Visualization
   Approved elective 1-5 hrs
   Total 30

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.

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1407 Biology II 4</td>
</tr>
<tr>
<td>BIOL 3428 Ecology 4</td>
</tr>
<tr>
<td>ESCI 4301 Environmental Regulations 3</td>
</tr>
</tbody>
</table>

Designated Electives 19

Additional hours selected from the following list, with written approval of a student’s faculty mentor. Must include at least 13 upper-level hours.
   BIOL 2421 Microbiology
   BIOL 4405 Limnology
   BIOL 4436 Marine Ecology
   BIOL 4444 Estuarine Ecology
   BIOL 4490 Special Topics: Coral Reef Ecology
   BIOL 4490 Special Topics: Fisheries Science
   CHEM 3411 Organic Chemistry I
   CHEM 3412 Organic Chemistry II
   CHEM 4330 Oil Spill Prevention and Response
   CHEM 4344 Chemical Oceanography
   CHEM 4443 Environmental Chemistry
   ESCI 4360 Physical Oceanography
   ESCI 4498 Internship
   GEOL 3442 Geomorphology
   GEOL 4411 Sedimentation and Stratigraphy
Science and Technology

GEOL 4436  Marine Geoscience
GEOL 4444  Hydrogeology (prerequisite: MATH 2413)
GISC 3301  Geographic Information Systems I
GISC 3421  Visualization (prerequisite: MATH 2413)
MATH 3342  Applied Probability and Statistics
PHYS 1402  Physics II
Approved electives  1-5 hrs
Total  30

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1407</td>
<td>Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2421</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>ESCI 4301</td>
<td>Environmental Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 4320</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3411</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Designated Electives.</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Additional hours selected from the following list, with written approval by a student’s faculty mentor. Must include at least 10 upper-level hours.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 3430</td>
<td>Physiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 4407</td>
<td>Biology of the Fungi</td>
<td></td>
</tr>
<tr>
<td>BIOL 4408</td>
<td>Microbial Diversity and Ecology / ESCI 4408</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Environmental Microbiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 4406/BIMS 4406</td>
<td>Immunology</td>
<td></td>
</tr>
<tr>
<td>BIOL 4433</td>
<td>Parasitology</td>
<td></td>
</tr>
<tr>
<td>BIOL 4436</td>
<td>Marine Ecology</td>
<td></td>
</tr>
<tr>
<td>BIMS 4327</td>
<td>Intro to Toxicology</td>
<td></td>
</tr>
<tr>
<td>CHEM 3412</td>
<td>Organic Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 3417</td>
<td>Quantitative analysis</td>
<td></td>
</tr>
<tr>
<td>CHEM 3418</td>
<td>Instrumental Analysis</td>
<td></td>
</tr>
<tr>
<td>ESCI 4370</td>
<td>Hazardous Waste Operations and Emergency Response</td>
<td></td>
</tr>
<tr>
<td>ESCI 4430</td>
<td>Oil Spill Prevention and Response</td>
<td></td>
</tr>
<tr>
<td>MATH 3342</td>
<td>Applied Probability and Statistics</td>
<td></td>
</tr>
<tr>
<td>Approved electives</td>
<td></td>
<td>1-5 hrs</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

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.

**Sem. Hrs.**
- BIOL 3428 Ecology 4
- ESCI 4301 Environmental Regulations 3
- ESCI 4320 Environmental Health 3
- Designated Electives 20
  - Additional hours selected from the following list; with written approval by a student’s faculty mentor. Must include at least 10 upper-level hours.
    - ESCI 4370 Hazardous Waste Operations and Emergency Response 3
    - ESCI 4430 Oil Spill Prevention and Response 3
    - POLS 3313 The Legislative Process 3
    - POLS 3342 Introduction to Public Policy 3
- Approved electives 1-5 hrs
  - Total 30

**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 Technology Science, Mathematics and Technology Education section of the catalog.

**III. Minor in Environmental Science**

Students majoring in other academic fields who wish to earn a minor in environmental science must complete the following requirements:

**Sem. Hrs.**
- BIOL 3443 Environmental Biology 4
- CHEM 4443 Environmental Chemistry 4
- GEOL 3443 Environmental Geology 4
- ESCI 4301 Environmental Regulations 3
  - Two from the following:
    - BIOL 2472 Principles of Botany 8
    - BIOL 3413 Invertebrate Zoology or BIOL 3414 Vertebrate Biology
    - CHEM 1311/1111 General Chemistry I
    - GEOL 1403 Physical Geology
  - Total 23

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.

**IV. Minor**

Environmental science majors who wish to complete an optional minor in another discipline may arrange this in consultation with the academic advisor. Course requirements for the minor normally involve 18-24 semester hours, and the content is specified by faculty in the minor field. Minors in biology, chemistry, computer science, geographic information science, geology and mathematics are generally appropriate for environmental science majors. Minors in other disciplines or combination minors may be arranged in consultation with the academic advisor.

**CONTACT INFORMATION**

Environmental Science Program, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412-5850. Phone: (361) 825-2681. Web: http://pens.tamucc.edu/esci

**UNDERGRADUATE COURSES**

All course descriptions are located in one section near the back of the catalog.
Geographic Information Science

BACHELOR OF SCIENCE

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 fields of Geomatics or the rapidly expanding fields 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.

Program 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 professional 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 Emphases

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.

Degree Requirements

A summary of the hours necessary for graduation is as follows:

O. University requirements

First-Year Seminars: Full-time, first-year students must take

UCCP 1101 and UCCP 1102 (2)

Foreign language requirement (6)

(See “General Education Requirement”)

248
I. University Core Curriculum
(See “University Core Curriculum Programs”)
Including   MATH 2413  Calculus I  3
Including   PHYS 2425  University Physics I  3
Including   PHYS 2426  University Physics II  3
Total Core Curriculum  48

II. Foundations Required for the Geographic Information Science Program
   MATH 2413  Calculus I (laboratory component)   1
   PHYS 2425  University Physics I (laboratory component) 1
   PHYS 2426  University Physics II (laboratory component) 1
   MATH 2414  Calculus II  4
   MATH 3342  Applied Probability and Statistics  3
   COSC 1435  Problem Solving w/ Computers I  4
   GISC 1336  Digital Drafting and Design  3
   GISC 2438  Geospatial Software Systems I  4
   GISC 3300  Geospatial Mathematical Techniques  3
   GISC 4315  Satellite Positioning  3
Total (Geographic Information Science Foundations)  27

III. Core Required for the Geographic Information Science Program
   GISC 1470  Geospatial Systems I  4
   GISC 2470  Geospatial Plane Measurement I  4
   GISC 3301  Geospatial Systems II  3
   GISC 3325  Geodetic Science  3
   GISC 3421  Visualization for GIS  4
   GISC 4280  Geospatial Systems Internship  2
   GISC 4305  Legal Aspects of Spatial Information  3
   GISC 4431  Remote Sensing  4
Total (Core Required for the Geographic Information Science Program)  27

IV. Designated Emphasis (choose one emphasis)
   1. Geomatics Emphasis
      Field Measurement and Mapping Science
         GISC 3412  Geospatial Plane Measurement II  4
         GISC 4340  Geospatial Computations & Adjustment  3
      GISC Electives (choose one)
         GISC 4320 Hydrography
         GISC 4326 Geomatics Professional Practice  3
      Cadastral Systems
         GISC 4371  History of Texas Land Ownership  3
         GISC 4410  Cadastral Mapping and Records  4
      Field Practicum
         GISC 2250  Field Camp I  2
GISC 4250  Field Camp II  2
Computing Sciences Electives  9
GISC 4590  Selected Topics (Approved by GIS faculty)  3
Total (Geomatics Emphasis) 30

2. Geographic Information Systems Emphasis
Geographic Information Systems
GISC 3416  Public Information in GIS  4
GISC 3420  Geospatial Software Systems II  4
GISC 4335  Geospatial Systems III  3
GISC 4350  Geospatial Systems Project  3
GISC 4420  Geospatial Systems Design  4
Computing Sciences Electives  12
Total (GIS Emphasis) 30
Total for Geographic Information Science Degree 129 Sem. Hrs.

Minor in Geographic Information Science
Students majoring in other academic fields who wish to earn a minor in Geographic Information Science must complete the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GISC 1336</td>
<td>Digital Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>GISC 1470</td>
<td>Geospatial Systems I</td>
<td>4</td>
</tr>
<tr>
<td>GISC 2470</td>
<td>Geospatial Plane Measurement I</td>
<td>4</td>
</tr>
<tr>
<td>GISC 3301</td>
<td>Geospatial Systems II</td>
<td>3</td>
</tr>
<tr>
<td>GISC 3421</td>
<td>Visualization for GIS</td>
<td>3</td>
</tr>
<tr>
<td>GISC 4305</td>
<td>Legal Aspects of Spatial Information</td>
<td></td>
</tr>
<tr>
<td>GISC 4431</td>
<td>Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>GISC 4590</td>
<td>Selected Topics (Approved by GIS faculty)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total (Geographic Information Science Minor)  20
If needed, upper-level Geographic Information Science electives to bring the total to 21 credit hours.

Post-Baccalaureate Certificate in Geomatics
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 of 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.

32 Credit Hour Certificate in Geomatics
Required GISC courses  (32 Semester Hours)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GISC 1336</td>
<td>Digital Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>GISC 2470</td>
<td>Geospatial Plane Measurement I</td>
<td>4</td>
</tr>
<tr>
<td>GISC 3325</td>
<td>Geodetic Science</td>
<td>3</td>
</tr>
<tr>
<td>GISC 3300</td>
<td>Geospatial Mathematical Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GISC 3412</td>
<td>Geospatial Plane Measurement II</td>
<td>4</td>
</tr>
<tr>
<td>GISC 4250</td>
<td>Field Camp II</td>
<td>2</td>
</tr>
<tr>
<td>GISC 4371</td>
<td>History of Texas Land Ownership</td>
<td>3</td>
</tr>
</tbody>
</table>
Post-Baccalaureate Certificate in GIS
The Post-Baccalaureate Certificate in GIS is designed for students who hold a bachelor’s degree or master’s degree in fields other than GIS or Geographic Information Science and desire to continue their education in Geographic Information Science. 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.

30 Credit Hour Certificate in Geographic Information Systems
Required GISC courses (32 Semester Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GISC 1336</td>
<td>Digital Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>GISC 1470</td>
<td>Geospatial Systems I</td>
<td>4</td>
</tr>
<tr>
<td>GISC 2438</td>
<td>Geospatial Software Systems I</td>
<td>4</td>
</tr>
<tr>
<td>GISC 3300</td>
<td>Geospatial Mathematical Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GISC 3420</td>
<td>Geospatial Software Systems II</td>
<td>4</td>
</tr>
<tr>
<td>GISC 3421</td>
<td>Visualization for GIS</td>
<td>4</td>
</tr>
<tr>
<td>GISC 4420</td>
<td>Geospatial Systems Design</td>
<td>4</td>
</tr>
<tr>
<td>GISC 4431</td>
<td>Remote Sensing</td>
<td>4</td>
</tr>
</tbody>
</table>

Students must earn at least a 2.0 overall grade point average in all GISC courses.

CONTACT INFORMATION
Geographic Information Science Program, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412-5868. Web: http://gisc.tamucc.edu/.

UNDERGRADUATE COURSES
All course descriptions are located in one section near the back of the catalog.

Geography

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 Technology 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: (10 semester hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem.Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 1300</td>
<td>World Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3331</td>
<td>Geography of North America</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 1470</td>
<td>Geographic Information Systems I/GISC 1470 Geospatial Systems I</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (8 semester hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem.Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 1403</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 3301</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>GISC 3421</td>
<td>Visualization for GIS</td>
<td>4</td>
</tr>
<tr>
<td>ESCI 3351</td>
<td>Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 3403</td>
<td>Meteorology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3442</td>
<td>Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GISC 4431</td>
<td>Remote Sensing</td>
<td>4</td>
</tr>
</tbody>
</table>

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 Technology.

Geoscience

BACHELOR OF SCIENCE IN GEOLOGY

I. Introduction

The mission of the Geoscience 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 Geoscience 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 and planetary system. 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 geology and planetary 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:

BS graduates of the Geology program will:
- show competence in scientific inquiry, writing, and oral presentation;
- demonstrate a broad understanding of major concepts central to the geological sciences;
- 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.
II. Geology Major

The minimum requirement for a Bachelor of Science Degree in Geology is a total of 120 hours, divided among the following areas:

<table>
<thead>
<tr>
<th>Area</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. University Core (and First-Year Seminars)</td>
<td>45</td>
</tr>
<tr>
<td>II. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>III. Geology Core Courses</td>
<td>71</td>
</tr>
<tr>
<td>IV. Electives</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>122</strong></td>
</tr>
</tbody>
</table>

*First Year Seminars

First-Year Seminars or Electives

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

- UCCP 1101/UCCP 1102  First-Year Seminar I, II  2

I. University Core Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 1403  Physical Geology (included in University Core)*</td>
<td>(4)</td>
</tr>
<tr>
<td>GEOL 1404  Historical Geology (included in University Core)*</td>
<td>(4)</td>
</tr>
<tr>
<td>GEOL 3326  Introduction to Geological Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3411  Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3414  Igneous and Metamorphic Petrology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3441  Invertebrate Paleontology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 4411  Sedimentation and Stratigraphy</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 4421  Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 4650  Field Geology or other approved field geology course</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 1311/1111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1312/1112 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1401/1402 General Physics I, II</td>
<td>8</td>
</tr>
<tr>
<td>OR PHYS 2425/2426 University Physics I, II</td>
<td>8</td>
</tr>
<tr>
<td>MATH 2413  Calculus I (included in University Core)*</td>
<td>(4)</td>
</tr>
<tr>
<td>MATH 3342  Applied Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>51</strong></td>
</tr>
</tbody>
</table>

*Only 3 hours of GEOL 1403, GEOL 1404, and MATH 2413 will apply to the University Core Curriculum. The one hour laboratory component will be counted in the major requirements.

Choose 10 semester hours from each of the two groups listed below. All courses selected must be approved by the student’s faculty mentor.

**Group A:**

- GEOL 3329  Geology of National Parks  3
- GEOL 3442  Geomorphology  4
- GEOL 3443  Environmental Geology  4
- GEOL 4316  Marine Geoscience  3
- GEOL 4324  Modern Shoreline Depositional Systems  3
- GEOL 4444  Hydrogeology  4

**Group B:**

- GISC 1470  Geospatial Systems I  4
- GEOL 2101  Geological Field Explorations  1
- GEOL 3315  Geochemistry  3
III. Additional Electives

Additional upper-level courses selected in consultation with a student’s academic advisor. Electives may be from Biology, Chemistry, Computer Science, Environmental Science, Geographic Information Science, Geology, Mathematics, Physics, or other appropriate areas.

Total  20

IV. 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.

V. Minor in Geology

Students majoring in other academic fields who wish to earn a minor in geology must complete the following requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 1403</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1404</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3411</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3443</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 4421</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
</tr>
</tbody>
</table>

Other approved geology courses may be substituted for any of the above courses.

CONTACT INFORMATION

Web site: http://pens.tamucc.edu/geol
Campus Address: Carlos F. Truan Natural Resource Center; Room 1100;
phone (361) 825-2681
Mailing Address: Geology Program, Unit 5850
College of Science and Technology
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5850

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Mathematics

BACHELOR OF SCIENCE

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:

- 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.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. University Core Curriculum</td>
<td>45</td>
</tr>
<tr>
<td>2. Mathematics Core</td>
<td>33</td>
</tr>
<tr>
<td>3. Mathematics Electives</td>
<td>6</td>
</tr>
<tr>
<td>4. Supporting Courses</td>
<td>10</td>
</tr>
<tr>
<td>5. Minor or Career Emphasis</td>
<td>18-27</td>
</tr>
<tr>
<td>6. Electives (as needed to fulfill University graduation requirements)</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>120-121</td>
</tr>
</tbody>
</table>

The following describes each of the components of the mathematics major in more detail.

1. University Core Curriculum

2. Mathematics Core

The following courses are required of all mathematics majors.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2305</td>
<td>Discrete Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2413</td>
<td>Calculus I *</td>
<td>1**</td>
</tr>
<tr>
<td>MATH 2414</td>
<td>Calculus II*</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3311</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3313</td>
<td>Foundation to Higher Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3315</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3342</td>
<td>Applied Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3470</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>
3. Mathematics Electives

Electives must be selected in consultation with the faculty mentor and with department chair approval. One of the following courses must be selected as a junior level elective. Students intending to seek secondary teaching certification in Mathematics must take MATH 3312, College Geometry.

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3312 College Geometry</td>
<td></td>
</tr>
<tr>
<td>MATH 3385 Linear Optimization and Decisions</td>
<td></td>
</tr>
<tr>
<td>MATH 3400 Geospatial Mathematical Techniques</td>
<td></td>
</tr>
</tbody>
</table>

Total 3-4

One of the following courses must be selected as a senior level elective.

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 4315 Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 4328 Discrete Mathematics II</td>
<td></td>
</tr>
<tr>
<td>MATH 4342 Introduction to Mathematical Statistics</td>
<td></td>
</tr>
<tr>
<td>SMTE 4370 Mathematics Education Topics I</td>
<td></td>
</tr>
<tr>
<td>Other upper-level courses as offered.</td>
<td></td>
</tr>
</tbody>
</table>

Total 3

4. 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 1435 Introduction to Problem Solving with Computers I</td>
<td>4</td>
</tr>
<tr>
<td>COSC 1436 Introduction to Problem Solving with Computers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2425 University Physics I</td>
<td>1**</td>
</tr>
<tr>
<td>PHYS 2426 University Physics II</td>
<td>1**</td>
</tr>
</tbody>
</table>

Total 10

**3 hours apiece of PHYS 2425 and PHYS 2426 apply to the University Core Curriculum. The two 1 hour laboratory components apply to the Supporting Courses requirement.

5. Minor or Career Emphasis

Students may choose among three options to fulfill the minor or career emphasis. The first option is the 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 is the career emphasis, which provides the student with a broad spectrum of courses. The third option, designed for those students seeking secondary teaching certification, is a sequence of courses in Education. Details of each of these options are:

A. 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.
B. A career emphasis will consist of 21 semester hours from at least three areas of mathematics, computer science, life or physical science, including physics, chemistry, biology, geology, and environmental science, with at least nine semester hours in upper-division work. Mathematics courses used for a career emphasis may not be used to satisfy a Mathematics major, and must be upper-division.

C. 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 B.S. in Mathematics—Grades 8-12 section of the SMTE portion of the catalog for more details.

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total 18-27</td>
</tr>
</tbody>
</table>

6. Electives as needed to fulfill University graduation requirements.

II. THE MATHEMATICS MINOR

Students majoring in other academic fields who wish to earn a minor in mathematics must complete the following courses:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2305 Discrete Mathematics I 3</td>
</tr>
<tr>
<td>MATH 2413 Calculus I* 4</td>
</tr>
<tr>
<td>MATH 2414 Calculus II* 4</td>
</tr>
<tr>
<td>MATH 3311 Linear Algebra 3</td>
</tr>
<tr>
<td>MATH 3470 Calculus III 4</td>
</tr>
<tr>
<td>One upper division MATH elective 3</td>
</tr>
</tbody>
</table>

*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 |

II. TEACHING CERTIFICATION IN MATHEMATICS

Grades 4-8 certification in mathematics is completed with an interdisciplinary studies major in the College of Education. See the Education portion of the catalog for more details.

Grades 8-12 certification in mathematics may be completed with or without a mathematics major. See the Science, Mathematics and Technology Education portion of the catalog for more details.

IV. 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.

V. CONTACT INFORMATION

Department of Mathematics and Statistics, Texas A&M University-Corpus Christi, Corpus Christi, TX, 78412-5825. Phone: (361) 825-2459. FAX: (361) 825-2795. Web: math.tamucc.edu. E-mail math@tamucc.edu

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Mechanical Engineering

Bachelor of Science in Mechanical Engineering

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 mechanical 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 those fields in maritime sciences and marine biology that directly impact the Gulf Coast where the program is strategically located.

In accordance with the expectations of the accrediting organization ABET, the educational objectives of this program are to graduate students who will:

- Practice the mechanical engineering discipline successfully within community accepted 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
- Develop a professional career in the prevailing market that meets personal goals, objectives and desires.

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 the design, manufacture, and control of such systems. Students will develop a deep understanding of the impact of engineering solutions from a global, financial, environmental, societal, political, ethical, health and safety, and sustainability perspective.

Student Learning Outcomes:

- Apply knowledge of mathematics, science, and engineering in discerning methods.
- Design, perform, and analyze experiments for thermo-fluid and mechanical systems.
- Design thermo-fluid, energy, mechanical and control systems to meet specifications within environmental, safety, and manufacturability constraints.
- Participate effectively in teams involving multi-disciplines.
- Identify, formulate, and solve thermo-fluid, and mechanical systems problems by applying engineering principles.
- Develop practical solutions for mechanical engineering problems with professional and ethical responsibility.
- Communicate effectively with written or oral presentations using modern visual means in a technical setting.
- Understand contemporary issues in engineering.
- Understand the impact of engineering in a global, economic, environmental, and societal context.
- Be prepared for a lifelong pursuit of continuing education.
• Have an ability to use modern engineering techniques and computing tools necessary for engineering practice.

**Degree Requirements**

The mechanical engineering curriculum consists of a minimum of 129 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 and other General Education Requirements

   University Core Curriculum Program 45
   First-Year Seminars (when applicable)* (2)

II. Common Engineering and Math courses 46

III. Common Mechanical Engineering courses 26

IV. Technical Elective Block 12

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/UCCP 1102  First-Year Seminar I, II  2

The specific requirements for each aspect of the Bachelor of Science in Mechanical Engineering degree are indicated on the following pages.

**I. University Core Curriculum and other General Education Requirements**

See “University Core Curriculum Program” 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 (lecture component)  3
- PHYS 2425  University Physics I (lecture component)  3
- PHYS 2426  University Physics II (lecture component)  3

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.”

**II. Common Engineering, Math and Science Courses**

- MATH 2413  Calculus I (laboratory component)  1
- PHYS 2425  University Physics I (laboratory component)  1
- PHYS 2426  University Physics II (laboratory component)  1
- MATH 2414  Calculus II  4
- MATH 3470  Calculus III  4
- MATH 3315  Differential Equations  3
- ENGR 1211  Foundations of Engineering I  2
- ENGR 1212  Foundations of Engineering II  2
- ENGR 1215  Co-Op  2
- ENGR 2316  Thermodynamics  3
- ENGR 2321  Statics and Dynamics  3
- ENGR 2322  Materials Science  3
III. Common Mechanical Engineering Courses
MEEN 3310  Engineering Analysis for Mechanical Engineering  3
MEEN 3312  Dynamics and Vibrations  3
MEEN 3330  Solid Mechanics for Mechanical Engineering  3
MEEN 3340  Solid Modeling and Finite Elements  3
MEEN 3345  Heat Transfer  3
MEEN 4220  Engineering Lab  2
MEEN 4320  Machine Design  3
MEEN 4340  Project Management  3
MEEN 4370  Capstone Projects  3
Total  26

IV. Technical Elective Block (select four 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 of these two courses:
MEEN 4360  Thermal System Design  3
MEEN 4365  Mechanical System Design  3

And choose three of the following courses:
MEEN 4350  Controls, Automation and Robotics  3
MEEN 4355  Marine Fabrication  3
MEEN 4380  Renewable Energy  3
MEEN 4385  Offshore Energy Management  3
MEEN 4390  Introduction to Computational Fluid Mechanics  3
MEEN 4395  Offshore Water Exploration and Desalination  3
MEEN 4325  Energy Conversion  3

Schedule Options
Students may choose either a fast-track option that may be finished in four-years or a five-year option involving a cooperative educational experience in the latter part of their studies. Students pursuing the cooperative educational approach will have periodic full-time work experiences in their areas of interest with participating industries and businesses.

Co-Ops
Students will form relationships with local engineers through field experiences, internships, and co-ops. All students will have a co-op experience during their freshmen year. Students in the cooperative educational option will pursue additional co-op experiences during the summer and fall semesters beginning in the sophomore year. All field experiences will conclude with an exit interview of both the student participant and the student’s immediate supervisor of the project.

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 who will incorporate research projects from Harte Research Institute and Conrad Blucher Institute for Surveying and Science into the capstone projects. The capstone project
Physical Science

Physical Science courses were previously offered in support of students seeking teaching certification at all levels. All information about K-12 science and technology education has now been reorganized into a new section of the catalog, Science Mathematics and Technology Education (SMTE) in the College of Science and Technology portion of this catalog. Courses previously listed under Physical Science are now listed under the Science, Mathematics and Technology (SMTE) section of the catalog course listings.

CONTACT INFORMATION

Mechanical Engineering, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412. Web: http://entc.tamucc.edu/.

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Physics

I. Introduction

Physics courses are offered as course work in support of major study areas in the sciences, mathematics, computer science, engineering and technology, and 8-12 grade-level physical science teaching certification. A minor in physics is offered for students who are interested in a broad foundation in classical and modern physics. A&M Corpus-Christi is part of the Texas Electronic Coalition for Physics, a group of Texas universities that jointly offers upper-level distance education physics courses utilizing the Trans-Texas Videoconference Network (TTVN), World Wide Web and other electronic media. A physics minor offers students majoring in physical sciences, geographic information science, engineering and technology 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. A physics minor also provides sound preparation for students planning to teach 8-12 Physical Science, Physics and Chemistry.

II. Minor in Physics

The following courses are required for a minor in physics:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. 4</td>
<td>PHYS 2425</td>
<td>University Physics I</td>
</tr>
<tr>
<td>II. 4</td>
<td>PHYS 2426</td>
<td>University Physics II</td>
</tr>
<tr>
<td>III. 12</td>
<td>[1] PHYS 3311</td>
<td>Classical Mechanics</td>
</tr>
<tr>
<td></td>
<td>[2] PHYS 3312</td>
<td>Modern Physics</td>
</tr>
<tr>
<td></td>
<td>[3] PHYS 3490</td>
<td>Selected Topics, only if the topics selected are from the following:</td>
</tr>
<tr>
<td></td>
<td>(i) Electromagnetic Field Theory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(ii) Thermodynamics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(iii) Mathematical Methods of Physics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(iv) Waves and Optics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(v) Quantum Theory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vii) Computational Physics</td>
<td></td>
</tr>
</tbody>
</table>

Total 20

III. Physical Science Teaching Certificate

Students planning to teach 8-12 grade-level Physical Science, Physics or Chemistry should obtain a Bachelor of Science degree in Chemistry with additional upper level courses in physics as recommended by their academic advisors. A minor in physics prepares students for success in secondary level physical science and physics teaching and the physics component of the Texas Examinations of Educator Standards (TExES). For more details, see the Science, Mathematics and Technology Education (SMTE) section of this catalog. Students who seek the 8-12 Physical Science teaching certificate will find details on the requirements for obtaining a teaching certificate in the College of Education section of this catalog. These students should also contact a Certification Officer in the College of Education about requirements and procedures that must be met to obtain the certificate.

CONTACT INFORMATION

Physics Program, Department of Physical and Environmental Sciences, Texas A&M University-Corpus Christi, Corpus Christi, TX 78412-5800. Phone (361) 825-2681. Web: http://www.sci.tamucc.edu/~physweb/physics/physics-homepage.html.

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
Science, Mathematics and Technology Education

I. Introduction

The College of Science and Technology 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 4 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 Technology 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; 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 (126-130 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 8-12 teacher certification (125 sem. hrs.)
- Bachelor of Science in Chemistry – Physical Science Education Concentration leading to the Physical Science 8-12 teacher certification (129 sem. hrs.)
- Bachelor of Science in Computer Science – Computer Science Education Option leading to the Computer Science 8-12 teacher certification (120-121 sem. hrs.)
- Bachelor of Science in Mathematics leading to the Mathematics 8-12 teacher certification (121 sem. hrs)

Mathematics 8-12 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 2.50 (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 Technology, and the Certification Officer of the College of Education for the degree to be granted.

V. Bachelors of Science from the College of Science and Technology leading to Teacher Certification (pending approval from relevant boards and agencies)

BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE – GRADES 4-8 SCIENCE EDUCATION CONCENTRATION

General Requirements

<table>
<thead>
<tr>
<th>A. University Core</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. First Year Seminar (when applicable)</td>
<td>2</td>
</tr>
<tr>
<td>C. Science Content Courses</td>
<td>48-49</td>
</tr>
<tr>
<td>D. Mathematics Courses</td>
<td>(4)+3-4</td>
</tr>
<tr>
<td>E. Professional Development and Reading Sequence</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>126-130</td>
</tr>
</tbody>
</table>

Details of each of these areas are described below.

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 1311/1111), 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.

<table>
<thead>
<tr>
<th>A. Core Curriculum</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. First-Year Seminars or Electives</td>
<td>(2)</td>
</tr>
<tr>
<td>UCCP 1101 / UCCP 1102</td>
<td>First-Year Seminar I, II</td>
</tr>
</tbody>
</table>

<p>| C. Science Content Courses              | Sem. Hrs. |
| BIOL 1406 Biology I (hours included in University Core)* | 4         |
| BIOL 1407 Biology II                     | 4         |
| ESCI 1401 Environmental Science I: Introduction to Environmental Science | 4         |
| ESCI 1402 Environmental Science II: Systems and Applications | 4         |
| CHEM 1311/1111 General Chemistry I with lab | (3+1)*    |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1401</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1403</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1404</td>
<td>Historical Geology</td>
<td>4</td>
</tr>
<tr>
<td>ASTR 1311</td>
<td>Introduction to Space Science</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 4320</td>
<td>Secondary Science Laboratory Techniques</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 4270</td>
<td>Science Education Topics I</td>
<td>2</td>
</tr>
<tr>
<td>ESCI 3351</td>
<td>Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 3315</td>
<td>Foundational Approaches to the Physical Sciences</td>
<td>3-4</td>
</tr>
<tr>
<td>PHYS 1402</td>
<td>General Physics II</td>
<td>3-4</td>
</tr>
<tr>
<td>SMTE 3316</td>
<td>Foundational Approaches to the Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 4317</td>
<td>Secondary Approaches to the Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3443</td>
<td>Environmental Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4443</td>
<td>Environmental Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3443</td>
<td>Environmental Geology</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 48-49

*Only 3 hours of BIOL 1406 and CHEM 1311/1111 will apply to the University Core Curriculum. The one hour laboratory component will be counted in the major requirements.

**D. Mathematics Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1442</td>
<td>Statistics for Life (hours included in University Core)*</td>
<td>(4)</td>
</tr>
<tr>
<td>MATH 1316</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2312</td>
<td>PreCalculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2413</td>
<td>Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 3-4

*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. Psychology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 2301</td>
<td>General Psychology (included in University Core)</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Total (3)

**F. 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ 3321</td>
<td>Foundations of Developmental Reading</td>
<td>3</td>
</tr>
<tr>
<td>READ 3351</td>
<td>Diagnosis and Correction of Reading Problems</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 3311</td>
<td>School and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**Field-Based Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 4607</td>
<td>Planning Teaching, Assessment and Technology for 4-8</td>
<td>6</td>
</tr>
<tr>
<td>EDCI 4323</td>
<td>Instructional Design for Special Populations 4-8</td>
<td>3</td>
</tr>
</tbody>
</table>

**Student Teaching Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 4992</td>
<td>Student Teaching 4-8</td>
<td>9</td>
</tr>
<tr>
<td>EDCI 4313</td>
<td>Classroom Management 4-8</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 30

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265
BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES – GRADES 4-8
MATHEMATICS EDUCATION CONCENTRATION

The Bachelor of Science degree in Interdisciplinary studies with a Mathematics 4-8 specialization and its requirements are described in the College of Education section of the catalog.

BACHELOR OF SCIENCE IN BIOLOGY – GRADES 8-12 LIFE SCIENCE EDUCATION CONCENTRATION

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-eight 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

<table>
<thead>
<tr>
<th>Area</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>C. Biology Teaching Core</td>
<td>42</td>
</tr>
<tr>
<td>D. Upper Division Electives</td>
<td>10</td>
</tr>
<tr>
<td>E. Professional Development and Reading Sequence</td>
<td>27</td>
</tr>
<tr>
<td>Total</td>
<td>124 (126)</td>
</tr>
</tbody>
</table>

Details of each of these areas are described below.

A. University Core

Core Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101</td>
<td>First-Year Seminar I</td>
<td>(2)</td>
</tr>
<tr>
<td>UCCP 1102</td>
<td>First-Year Seminar II</td>
<td>(2)</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>45(47)</td>
</tr>
</tbody>
</table>

B. Biology Teaching Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1406</td>
<td>Biology I (hours included in University Core)</td>
<td>(3)</td>
</tr>
<tr>
<td>BIOL 1407</td>
<td>Biology II (hours included in University Core)</td>
<td>(3)</td>
</tr>
<tr>
<td>Choose one of the three following classes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 2401</td>
<td>Anatomy and Physiology I or</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3425</td>
<td>Comparative Vertebrate Anatomy or</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3430</td>
<td>Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2416</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2421</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3410</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3413</td>
<td>Invertebrate Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3414</td>
<td>Vertebrate Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3428</td>
<td>Principles of Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2472</td>
<td>Principles of Botany</td>
<td>4</td>
</tr>
<tr>
<td>SMTE 4320</td>
<td>Secondary Science Laboratory Techniques</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 4270</td>
<td>Science Education Topics I</td>
<td>2</td>
</tr>
<tr>
<td>SMTE 4217</td>
<td>Secondary Approaches to the Life Sciences</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>39</td>
</tr>
</tbody>
</table>
C. Upper-Division Electives
Choose from courses in the Sciences, Psychology, and Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Total 10</td>
</tr>
</tbody>
</table>

D. Psychology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 2301</td>
<td>General Psychology (included in University Core)</td>
<td>(3)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Total (3)</td>
</tr>
</tbody>
</table>

E. Professional Development and Reading Sequence
Students who seek a 8-12 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ 3353</td>
<td>Content Area Reading for Secondary Students</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 3311</td>
<td>School and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Field-Based Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 4606</td>
<td>Planning, Teaching, Assessment and Technology for 8-12</td>
<td>6</td>
</tr>
<tr>
<td>EDCI 4322</td>
<td>Instructional Design for Special Populations 8-12</td>
<td>3</td>
</tr>
</tbody>
</table>

Student Teaching Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 4312</td>
<td>Classroom Management 8-12</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 4993</td>
<td>Student Teaching 8-12</td>
<td>9</td>
</tr>
</tbody>
</table>

Total 27

BACHELOR OF SCIENCE IN CHEMISTRY – GRADES 8-12 PHYSICAL SCIENCE EDUCATION CONCENTRATION

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 8-12 level, or who need chemical knowledge and skills relevant to future studies in the sciences. The BS in Chemistry requires at least 129 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University Core</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>B. First-Year Seminars (when applicable)*</td>
<td></td>
<td>(2)</td>
</tr>
<tr>
<td>C. Special Foundation Courses</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>D. Chemistry Major</td>
<td></td>
<td>47</td>
</tr>
<tr>
<td>E. Professional Development and Reading Sequence</td>
<td></td>
<td>27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total 129 (131)</td>
</tr>
</tbody>
</table>

F. University Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>45*</td>
</tr>
</tbody>
</table>

*First-Year Seminars or Electives

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101/ UCCP 1102</td>
<td>First-Year Seminar I, II</td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total 45 (47)</td>
</tr>
</tbody>
</table>

* See catalog section on University Core. Students choosing a physical science education concentration must take Calculus I (MATH 2413), University Physics I & II (PHYS 2425 & PHYS 2426) and General Psychology (PSYC 2301).
A. **Special Foundations for Physical Science Education Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2425</td>
<td>University Physics I (hours included in University Core)</td>
<td>(3) 1**</td>
</tr>
<tr>
<td>PHYS 2426</td>
<td>University Physics II (hours included in University Core)</td>
<td>(3) 1**</td>
</tr>
<tr>
<td>MATH 2413</td>
<td>Calculus I (hours included in University Core)</td>
<td>(3) 1**</td>
</tr>
<tr>
<td>MATH 2414</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3315</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>10**</td>
</tr>
</tbody>
</table>

** Nine of these hours are used to fulfill the University Core Curriculum science and mathematics requirements. The total shown does not include the 9 hours applied to the core. 

B. **Chemistry Major for Physical Science Education Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1311/1311 and 1312/1112</td>
<td>General Chemistry I and II</td>
<td>6 + 2</td>
</tr>
<tr>
<td>CHEM 3411</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3412</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3417</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4443</td>
<td>Environmental Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4401</td>
<td>Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4407</td>
<td>Advanced Inorganic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4424</td>
<td>Physical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3312</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 4320</td>
<td>Secondary Science Laboratory Techniques</td>
<td>3</td>
</tr>
<tr>
<td>SMTE 4270</td>
<td>Science Education Topics I</td>
<td>2</td>
</tr>
<tr>
<td>SMTE 4317</td>
<td>Secondary Approaches to the Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>47</td>
</tr>
</tbody>
</table>

C. **Psychology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 2301</td>
<td>General Psychology (included in University Core)</td>
<td>(3)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>(3)</td>
</tr>
</tbody>
</table>

D. **Professional Development Sequence**

Students who seek an 8-12 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ 3353</td>
<td>Content Area Reading for Secondary Students</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 3311</td>
<td>School and Society</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 4606</td>
<td>Planning, Teaching, Assessment and Technology for 8-12</td>
<td>6</td>
</tr>
<tr>
<td>EDCI 4322</td>
<td>Instructional Design for Special Populations 8-12</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 4312</td>
<td>Classroom Management 8-12</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 4993</td>
<td>Student Teaching 8-12</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>27</td>
</tr>
</tbody>
</table>

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE – GRADES 8-12 EDUCATION CONCENTRATION**

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 119 semester hours. The degree requirements are as follows:
A. University Core

See catalog section on University Core. 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 Requirement, the one hour laboratory component will count in the Computer Science Major Curriculum. Only three hours of natural science courses will count towards the Core Curriculum Requirement, 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 Requirements.

<table>
<thead>
<tr>
<th>Core Curriculum</th>
<th>Sem. Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101/UCCP 1102</td>
<td>2</td>
</tr>
<tr>
<td>Students not required to take these courses may substitute electives</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>45(47)</td>
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</tbody>
</table>

B. Computer Science Major Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2413</td>
<td>Calculus I (Laboratory Component)</td>
</tr>
<tr>
<td>Natural Science Courses (Laboratory Component)</td>
<td>1-2</td>
</tr>
<tr>
<td>COSC 1435</td>
<td>Introduction to Problem Solving with Computers I</td>
</tr>
<tr>
<td>COSC 1436</td>
<td>Introduction to Problem Solving with Computers II</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
</tr>
<tr>
<td>COSC 2434</td>
<td>Computer Organization and Assembly Language</td>
</tr>
<tr>
<td>ENTC 3418</td>
<td>Microprocessors/Microcontrollers</td>
</tr>
<tr>
<td>COSC 2437</td>
<td>Data Structures</td>
</tr>
<tr>
<td>COSC 3336</td>
<td>Introduction to DBMS</td>
</tr>
<tr>
<td>COSC 3346</td>
<td>Computer Systems Software</td>
</tr>
<tr>
<td>COSC 3370</td>
<td>Software Engineering</td>
</tr>
<tr>
<td>COSC 4354</td>
<td>Senior Capstone Project</td>
</tr>
<tr>
<td>MATH 2413</td>
<td>Calculus I (included in University Core)</td>
</tr>
<tr>
<td>*MATH 2305</td>
<td>Discrete Mathematics I</td>
</tr>
<tr>
<td>*MATH 3342</td>
<td>Applied Probability and Statistics</td>
</tr>
<tr>
<td>ENGL 3301</td>
<td>Professional and Report Writing</td>
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<tr>
<td>Total</td>
<td>39-40</td>
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</table>

*CThese are supporting courses that can be used toward a minor in mathematics.

C. Computer Science Education Option

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 3324</td>
<td>Object Oriented Programming</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
</tr>
<tr>
<td>COSC 3353</td>
<td>Survey of Programming Languages</td>
</tr>
<tr>
<td>COSC 4360</td>
<td>Theory of Programming Languages</td>
</tr>
<tr>
<td>COSC 4342</td>
<td>Distributed Processing and Networking</td>
</tr>
<tr>
<td>Total</td>
<td>9</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Preliminary Courses</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ 3353  Content Area Reading for Secondary Students</td>
<td>3</td>
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<tr>
<td>EDCI 3311  School and Society</td>
<td>3</td>
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</tbody>
</table>

Field-Based Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>EDCI 4606  Planning, Teaching, Assessment and Technology for 8-12</td>
<td>6</td>
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<tr>
<td>EDCI 4322  Instructional Design for Special Populations 8-12</td>
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</tr>
</tbody>
</table>

Student Teaching Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 4312  Classroom Management 8-12</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 4993  Student Teaching 8-12</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>27</td>
</tr>
</tbody>
</table>

**BACHELOR OF SCIENCE IN MATHEMATICS – GRADES 8-12 EDUCATION CONCENTRATION**

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 121-123 semester hours. Fifty 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**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>A. University Core Curriculum and First-Year Seminars</td>
<td>45</td>
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<tr>
<td>First-Year Seminars (when applicable)*</td>
<td>(2)</td>
</tr>
<tr>
<td>B. Mathematics Core</td>
<td>33</td>
</tr>
<tr>
<td>C. Mathematics Electives</td>
<td>6</td>
</tr>
<tr>
<td>D. Supporting Courses</td>
<td>10</td>
</tr>
<tr>
<td>F. Professional Development and Reading Sequence</td>
<td>18-27</td>
</tr>
<tr>
<td>G. Electives (as needed to fulfill University graduation requirements)</td>
<td>121 (123)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>121 (123)</strong></td>
</tr>
</tbody>
</table>

The following describes each of the components of the mathematics major in more detail.

**A. University Core Curriculum and First-Year Seminars.**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum</td>
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</tr>
<tr>
<td>First-Year Seminars or Electives</td>
<td>(2)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCCP 1101/UCCP 1102  First-Year Seminar I, II</td>
<td>(2)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>45 (47)</strong></td>
</tr>
</tbody>
</table>

**B. Mathematics Core**

The following courses are required of all mathematics majors.

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>MATH 2305  Discrete Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2413  Calculus I *</td>
<td>1**</td>
</tr>
<tr>
<td>MATH 2414  Calculus II*</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3311  Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3313  Foundation to Higher Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3315  Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3342  Applied Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3470  Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 4301  Introduction to Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>
MATH 4306 Modern Algebra 3
MATH 4385 Applied Modeling 3
Total 33

*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
One of the following
   MATH 4315 Partial Differential Equations
   MATH 4328 Discrete Mathematics II
   MATH 4342 Introduction to Mathematical Statistics
   SMTE 4370 Mathematics Education Topics I
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.

   Sem. Hrs.
   COSC 1435 Introduction to Problem Solving with Computers I 4
   COSC 1436 Introduction to Problem Solving with Computers II 4
   and (8)
Total 10

**3 hours apiece of PHYS 2425 and PHYS 2426 apply to the University Core Curriculum. The two 1 hour laboratory components apply to the Supporting Courses requirement.

D. Psychology
Sem. Hrs.
PSYC 2301 General Psychology (included in University Core) (3)
Total (3)

E. 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
   Sem. Hrs.
   READ 3353 Content Area Reading for Secondary Students 3
   EDCI 3311 School and Society 3

   Field-Based Semester
   EDCI 4606 Planning, Teaching, Assessment and Technology for 8-12 6
   EDCI 4322 Instructional Design for Special Populations 8-12 3

   Student Teaching Semester
   EDCI 4312 Classroom Management 8-12 3
   EDUC 4993 Student Teaching 8-12 9
Total 27
MATHEMATICS GRADES 8-12 TEACHER CERTIFICATION WITHOUT A MATHEMATICS MAJOR

Mathematics 8-12 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 below, and the other courses are listed directly above. Students seeking certification through this route should contact a Certification Officer in the College of Education. The mathematics major as described above includes all required courses.

<table>
<thead>
<tr>
<th>Courses</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1314 College Algebra</td>
<td>(3)</td>
</tr>
<tr>
<td>MATH 2312 Precalculus</td>
<td>(3)</td>
</tr>
<tr>
<td>MATH 2413 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2414 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2305 Discrete Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3342 Applied Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3311 Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3312 Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3313 Foundations to Higher Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4306 Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>26</td>
</tr>
</tbody>
</table>

CONTACT INFORMATION

Campus Address: Science and Technology Building, Room 319
Mailing Address: Science, Mathematics and Technology Education Program, Unit 5800
College of Science and Technology
Texas A&M University-Corpus Christi,
Corpus Christi, TX, 78412-5800.
Phone: (361) 825-2754, Fax: (361) 825-2742.
Web: http://smte.tamucc.edu

UNDERGRADUATE COURSES

All course descriptions are located in one section near the back of the catalog.
## Course Descriptions

### 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.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Prefix</th>
<th>College or Unit</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>ACCT</td>
<td>Business</td>
<td>247</td>
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<td>Anthropology</td>
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<td>Liberal Arts</td>
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<tr>
<td>Art</td>
<td>ARTS</td>
<td>Liberal Arts</td>
<td>248</td>
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<td>Astronomy</td>
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<td>Science and Technology</td>
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<tr>
<td>Bilingual/ESL/Multicultural</td>
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<td>Education</td>
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<td>Biology</td>
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<td>Science and Technology</td>
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<td>Education</td>
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<td>Educational Technology</td>
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<td>Nursing and Health Sciences</td>
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</table>
### Course Descriptions

<table>
<thead>
<tr>
<th>Subject</th>
<th>Prefix</th>
<th>College or Unit</th>
<th>Page</th>
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<tr>
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<td>Operations Research/Management Science</td>
<td>ORMS</td>
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<td>Univ. Core Curriculum Programs</td>
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<td>Univ. Core Curriculum Programs</td>
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<tr>
<td>Women and Gender Studies</td>
<td>WGST</td>
<td>Liberal Arts</td>
<td>314</td>
</tr>
</tbody>
</table>

#### 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 below. 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.”
## ACCOUNTING (ACCT)

### ACCT 0041 0 sem. hrs.
**PROFESSIONAL DEVELOPMENT LEVEL ONE**
This non-credit, web-based course provides developmental opportunities for Professional Program in Accounting (PPA) students who are working on Level One skill development. Level One skills include oral and written communication skills, knowledge of the profession of accounting and its procedures, CPA requirements, ethics and professional responsibilities, professional demeanor and business etiquette, resume building, interviewing skills, and acquisition of accounting work experience. Prerequisites: admission to the Professional Program in Accounting and Junior standing or above.

### ACCT 2301 (ACCT 2301) 3 sem. hrs.
**FINANCIAL ACCOUNTING**

### ACCT 2302 (ACCT 2302) 3 sem. hrs.
**MANAGERIAL ACCOUNTING**
The use of accounting information as an aid to management decision making, including performance measurement and budgets. Prerequisite: ACCT 2301.

### ACCT 3311. 3 sem. hrs.
**INTERMEDIATE ACCOUNTING I**
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. 3 sem. hrs.
**INTERMEDIATE ACCOUNTING II**
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. 3 sem. hrs.
**COST ACCOUNTING**
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. 3 sem. hrs.
**MULTINATIONAL ENTITIES: ACCOUNTING AND CONSOLIDATIONS**
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. 3 sem. hrs.
**GOVERNMENTAL AND MUNICIPAL ACCOUNTING**
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 3321. 3 sem. hrs.
**FEDERAL INCOME TAX I**
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. 3 sem. hrs.
**FEDERAL INCOME TAX II**
Examines additional, more complex topics in business decision-making, tax research, and tax planning. Prerequisites: ACCT 3321 and Junior standing or above.

### ACCT 3340 3 sem. hrs.
**FRAUD EXAMINATION**
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. 3 sem. hrs.
**ACCOUNTING INFORMATION SYSTEMS**
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. 3 sem. hrs.
**AUDITING PRINCIPLES AND PROCEDURES**
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. 3 sem. hrs.
**ADVANCED ACCOUNTING PROBLEMS**
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 4390. 1-3 sem. hrs.
**CURRENT TOPICS IN ACCOUNTING**
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. 1-3 sem. hrs.
**DIRECTED INDIVIDUAL STUDY**
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. 3 sem. hrs.
ACCOUNTING INTERNSHIP
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) ____________

ANTH 3301. 3 sem. hrs.
CULTURAL ANTHROPOLOGY
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. 3 sem. hrs.
NATIVE AMERICANS IN NORTH AMERICA
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. 3 sem. hrs.
SPECIAL TOPICS IN ANTHROPOLOGY
Study of different topics in anthropology including biological, archaeological, cultural, or linguistic subjects. May be repeated when topics vary.

ART (ARTS) ________________________

ARTS 1301 (ARTS 1301) 3 sem. hrs.
ART AND SOCIETY
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 (ARTS 1303) 3 sem. hrs.
ART HISTORY SURVEY I
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 (ARTS 1304) 3 sem. hrs.
ART HISTORY SURVEY II
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 (ARTS 1311) 3 sem. hrs.
DESIGN I
A studio course concerning the fundamentals of art with emphasis on two-dimensional concepts.

ARTS 1312 (ARTS 1312) 3 sem. hrs.
DESIGN II
A studio course concerning the fundamentals of art with emphasis on three-dimensional concepts.

ARTS 1316 (ARTS 1316) 3 sem. hrs.
DRAWING I
A studio course investigating a variety of media techniques, including their descriptive and expressive possibilities.

ARTS 1317 (ARTS 1317) 3 sem. hrs.
DRAWING II
A further investigation of media techniques explored in Drawing I, including their descriptive and expressive possibilities. Prerequisite: ARTS 1316.

ARTS 2311 3 sem. hrs.
DESIGN III: COLOR
Investigation of the properties of color. Color is studied and applied to studio-oriented design assignments. Prerequisites: 1303, 1304, 1311, 1312, 1316, 1317.

ARTS 2316 (ARTS 2316) 3 sem. hrs.
PAINTING I
A studio course exploring the potentials of painting media.

ARTS 2323 (ARTS 2323) 3 sem. hrs.
DRAWING III
A studio course introducing the structure and action of the human figure. Prerequisites: ARTS 1303, 1304, 1311, 1312, 1316, 1317.

ARTS 2326 (ARTS 2326) 3 sem. hrs.
SCULPTURE I
A studio course exploring sculptural approaches in a variety of media.

ARTS 2333 (ARTS 2333) 3 sem hrs.
PRINTMAKING I
An introductory studio course in basic printmaking processes and techniques.

ARTS 2346 (ARTS 2346) 3 sem. hrs.
CERAMICS I
An introductory studio course in basic ceramic processes.

ARTS 2356 (ARTS 2356) 3 sem. hrs.
PHOTOGRAPHY I
An introductory studio course using digital cameras and image manipulation software. Satisfies university computer literacy requirement.

ARTS 2361 3 sem. Hrs.
TYPOGRAPHY
Through the use of lectures, demonstrations and studio work studio 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.

ARTS 2367. 3 sem. hrs.
WATERCOLOR
A studio course exploring techniques in water-base media.

ARTS 3301. 3 sem. hrs.
LIFE DRAWING
Drawing from the model using a variety of techniques and media. Prerequisite: ARTS 2323.

ARTS 3302. 3 sem. hrs.
INTERMEDIATE PRINTMAKING
Opportunity to work with relief, intaglio, lithographic, or screen printing processes to provide limited edition prints. Prerequisite: ARTS 2333.
ARTS 3303. INTERMEDIATE PAINTING
Explores the issues of content, imagery, application, and influences of master artists. Prerequisite: ARTS 2316.

ARTS 3304. INTERMEDIATE SCULPTURE
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
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
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 sem. hrs.), drawing (6 sem. hrs.), and art history (6 sem. hrs.)

ARTS 3324. INTERMEDIATE CERAMICS
Covers wheel-thrown ceramics, basic glazemaking, and an introduction to kiln firing and loading. Prerequisite: ARTS 2346.

ARTS 3350. ART OF THE UNITED STATES
A survey of the major developments in the art of North America from Pre-Columbian times to the modern era.

ARTS 3352. MODERN ART, 1880-1945
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
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 3360. GRAPHIC DESIGN I
This course introduces fundamental graphic communication techniques and theory. These techniques are further examined within a historical and practical context. Software is also introduced in this course. This studio course explores hand skills by using tools and techniques to produce professional presentations as well as the correct procedures for presenting designs to a client.

ARTS 3361. GRAPHIC DESIGN II
This studio course teaches students how to develop creative strategies for problem solving in a client-based environment. This studio focuses on two-dimensional design as it applies to branding/corporate identity design, poster design and advertising design.

ARTS 3362. INTERACTIVE DESIGN
This studio course teaches students how to develop creative strategies for problem solving in a client-based environment. This studio explores the use of the world wide web and other interactive media as a creative outlet for portfolio development, advertising design and business to business design.

ARTS 3365. INTERMEDIATE PHOTOGRAPHY
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
Emphasis on the development of content through drawing. Prerequisite: ARTS 3301.

*ARTS 4302. ADVANCED PRINTMAKING
Assumes competencies attained in ARTS 3302.

*ARTS 4303. ADVANCED PAINTING
Assumes competencies attained in ARTS 3303.

*ARTS 4304. ADVANCED SCULPTURE
Assumes competencies attained in ARTS 3304.

*ARTS 4324. ADVANCED CERAMICS
Assumes competencies attained in ARTS 3324.

ARTS 4350. PRE-COLUMBIAN ART OF MESOAMERICA
Explores the history of Pre-Columbian art from Mexico and Central America, from the Olmec through the Aztec cultures.

ARTS 4352. MODERN ART OF MEXICO
Explores the history of art during the nineteenth and twentieth centuries in Mexico.

ARTS 4361. GRAPHIC DESIGN III
This studio course teaches students how to develop creative strategies for problem solving in a client-based environment. This studio focuses on two-dimensional and three-dimensional design as it applies to packaging design, publication design and design for social awareness.

*ARTS 4362. PORTFOLIO AND PROFESSIONAL PRACTICES
This seminar 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, artist statement, set professional goals for their work.
ARTS 4365. 3 sem. hrs.
ADVANCED PHOTOGRAPHY
Assumes competencies attained in ARTS 3365. Covers content as creative expression in addition to basic photographic skills.

ARTS 4390. 3 sem. hrs.
TOPICS IN ART
May be repeated when topics vary.

ARTS 4396. 1-3 sem. hrs.
DIRECTED INDIVIDUAL STUDY
See College description. Offered on application.

ARTS 4398. 3 sem. hrs.
APPLIED EXPERIENCE
See College description. Offered on application.
* May be taken three times for credit.

ASTRONOMY (ASTR)___________________

ASTR 1311. 3 sem. hrs. (2:2)
INTRODUCTION TO SPACE SCIENCE
A survey of astronomy and space science from the time of the ancients to the search for extrasolar planetary systems. The course will cover human interpretations of space from the time of prehistoric peoples, through the Copernican revolution, to the modern tools of astronomical observation, rocketry, satellite communications, remote sensing, and exobiology. This course counts toward the natural science component of University Core Curriculum.

BILINGUAL/ESL/MULTICULTURAL
(BIEM)

BIEM 4344. 3 sem. hrs.
EDUCATIONAL PSYCHOLOGY AND THE BILINGUAL CHILD
Studies of the principles of educational psychology, testing, and assessment as applied to bilingual children.

BIEM 4345. 3 sem. hrs.
LANGUAGE ACQUISITION AND DEVELOPMENT
A study of language acquisition and development with special reference to implications for monolingual and bilingual learners.

BIEM 4349. 3 sem. hrs.
LINGUISTICS FOR BILINGUAL TEACHERS
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. 3 sem. hrs.
THE MINORITY CHILD
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. 3 sem. hrs.
LANGUAGE ARTS STUDIES IN THE BILINGUAL CURRICULUM
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. 3 sem. hrs.
CONTENT AREA STUDIES IN THE BILINGUAL CURRICULUM
The concepts and skills required to teach health, mathematics, science, and social studies in the elementary bilingual classroom are provided.

BIEM 4357. 3 sem. hrs.
METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE
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. 3 sem. hrs.
FOUNDATIONS IN BILINGUALISM
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. 3 sem. hrs.
FIELD STUDIES IN FAMILY LITERACY
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. 1-6 sem. hrs.
DIRECTED INDIVIDUAL STUDY
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.

BIOLOGY (BIOL)

The numbers of weekly lecture and laboratory hours associated with each course are designated by (lecture:lab), or for courses involving a recitation (lecture:lab:recitation), following the semester hours. Additional laboratory work may be required to complete the assignments. All courses involving labs and field trips will require appropriate fees.

BIOL 1406 (BIOL 1406) 4 sem. hrs. (3:2)
BIOLOGY I
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.

BIOL 1407 (BIOL 1407) 4 sem. hrs. (3:2)
BIOLOGY II
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.

BIOL 2200. 2 sem. hrs. (2:0)
PROFESSIONAL SKILLS
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.

**BIOL 2371. 3 sem. hrs. (3:0)**

**PRINCIPLES OF EVOLUTION**

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 (BIOL 2401) 4 sem. hrs. (3:2)**

**ANATOMY AND PHYSIOLOGY I**

Structure and function of the human body emphasizing biological chemistry, cell biology, tissues, and the integumentary, skeletal, muscular, and nervous systems. Prerequisite: BIOL 1406 (CHEM 1311/1111 strongly recommended.) Not recommended for Biology or Biomedical Sciences majors.

**BIOL 2402 (BIOL 2402) 4 sem. hrs. (3:2)**

**ANATOMY AND PHYSIOLOGY II**

Structure and function of the human body emphasizing blood, growth, development, genetics, and the endocrine, digestive, respiratory, cardiovascular, lymphatic, immune and urogenital systems. Prerequisites: BIOL 1406 and BIOL 2401 (CHEM 1311/1111 strongly recommended.) Not recommended for Biology or Biomedical Sciences majors.

**BIOL 2416 (BIOL 2416) 4 sem. hrs. (3:0:2)**

**GENETICS**

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 with a grade of ‘C’ or above, 1407, CHEM 1311 and CHEM 1312.

**BIOL 2420 (BIOL 2420) 4 sem. hrs. (3:3)**

**PRINCIPLES OF MICROBIOLOGY**

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. Prerequisite: BIOL 1406 or equivalent.

**BIOL 2421 (BIOL 2421) 4 sem. hrs. (3:3)**

**MICROBIOLOGY**

An introduction to microorganisms including the bacteria, fungi, and viruses. Laboratory involves microbiological techniques and development of basic laboratory skills. Prerequisites: BIOL 1406 with a grade of ‘C’ or above, BIOL 1407, CHEM 1311, CHEM 1312, or permission of instructor.

**BIOL 2472. 4 sem. hrs. (3:3)**

**PRINCIPLES OF BOTANY**

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.

**BIOL 3300. 3 sem. hrs. (3:0)**

**ANIMAL NUTRITION**

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. 3 sem. hrs. (3:0)**

**CELL PHYSIOLOGY**

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. 4 sem. hrs. (3:3)**

**MOLECULAR BIOLOGY**

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.

**BIOL 3410. 4 sem. hrs. (3:3)**

**CELL BIOLOGY**

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.

**BIOL 3413. 4 sem. hrs. (3:3)**

**INVERTEBRATE ZOOLOGY**

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.

**BIOL 3414. 4 sem. hrs. (3:3)**

**VERTEBRATE BIOLOGY**

Classification, natural history, and methods of collecting, preserving, and identifying vertebrates. Weekend field trip and individual studies required. Prerequisite: BIOL 1407.

**BIOL 3425. 4 sem. hrs. (3:3)**

**FUNCTIONAL ANATOMY**

General trends in morphological development and adaptation as demonstrated by the anatomy and embryology of living and extinct chordates. Prerequisite: BIOL 1407.

**BIOL 3428. 4 sem. hrs. (3:3)**

**PRINCIPLES OF ECOLOGY**

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 1406 with a grade of ‘C’ or above, BIOL 1407. Prerequisite or corequisite: BIOL 2200.

**BIOL 3430. 4 sem. hrs. (3:3)**

**PHYSIOLOGY**

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. Prerequisites: BIOL 1407, BIOL 2200 or BIMS 2200.

**BIOL 3443. 4 sem. hrs. (3:2)**

**ENVIRONMENTAL BIOLOGY**

Historical, contemporary, and projected concerns of human activities on biological aspects of ecosystem
functioning. Prerequisite: BIOL 1407 or consent of instructor.

**BIOL 3455.** 4 sem. hrs. (3:2)
**PLANT FORM AND FUNCTION**
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.

**BIOL 3471.** 4 sem. hrs. (3:2)
**PADRE ISLAND ECOLOGY**
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.

**BIOL 3472.** 4 sem. hrs. (3:2)
**MARINE BIOLOGY**
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.

**BIOL 3479.** 4 sem. hrs. (3:3)
**PLANT ECOLOGY**
Structure, physiology, life cycles, and economic impact of plants. Factors influencing diversity, succession and ecological distribution of plants. Prerequisite: BIOL 1407.

**BIOL 4085.** 0 sem. hrs. (0:0)
**MAJOR FIELD TEST IN BIOLOGY**
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** 1 sem. hr. (1:0)
**RESEARCH ETHICS AND PROFESSIONALISM**
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.** 2 sem. hrs. (2:0)
**SENIOR PRESENTATION**
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.** 1-2 sem. hrs. (0:10-20)
**DIRECTED INDEPENDENT RESEARCH**
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.

**BIOL 4301.** 3 sem. hrs. (3:0)
**EMBRYOLOGY**
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 4304.** 3 sem. hrs. (3:0)
**BIOLOGY OF VIRUSES**
Introduction to the study of viruses, including viral life cycles, replication schemes and Baltimore classification of representative bacteriophages, plant and animal viruses. Prerequisites: BIOL 2416, BIOL 2421 and CHEM 1311/1111.

**BIOL 4319.** 3 sem. hrs. (3:0)
**MARINE MAMMALS**
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 4326.** 3 sem. hrs. (3:0)
**TOXIC AND THERAPEUTIC PLANTS**
Anatomy and physiology of green plants toxic to humans and plants used in treating specific medical conditions. Prerequisite: BIOL 1407.

**BIOL 4340.** 3 sem. hrs. (3:0)
**GENOMICS, PROTEOMICS AND BIOINFORMATICS**
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.** 1-3 sem. hrs. (1:5)
**RESEARCH AND DESIGN**
Course will include experimental design, literature review of a research topic and laboratory work on the research topic. Prerequisite: consent of instructor.

**BIOL 4370.** 3 sem. hrs. (3:0)
**MARICULTURE**
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** 3 sem. hrs. (3:0)
**POPULATION GENETICS**
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,
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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. 1-3 sem. hrs. (1-3:0)
DIRECTED INDEPENDENT STUDY
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. 4 sem. hrs. (3:3)
LIMNOLOGY
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.

BIOL 4406. 4 sem. hrs. (3:3)
IMMUNOLOGY
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.)

BIOL 4407. 4 sem. hrs. (3:3)
BIOLOGY OF THE FUNGI
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.

BIOL 4408. 4 sem. hrs. (3:3)
MICROBIAL DIVERSITY AND ECOLOGY
Biodiversity and roles of microorganisms in natural environments. Interactions with other micro- and macroorganisms (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.

BIOL 4409. 4 sem. hrs. (3:3)
FIELD AND SAMPLING TECHNIQUES
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.

BIOL 4411. 4 sem. hrs. (3:2)
ANIMAL BEHAVIOR
An understanding of why animals behave in the manner they do, through examination of both invertebrate and vertebrate species. Prerequisite: BIOL 1407.

BIOL 4413. 4 sem. hrs. (3:3)
ENTOMOLOGY
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.

BIOL 4422. 4 sem. hrs. (3:3)
PLANT TAXONOMY
Principles and practice in the classification of flowering plants. Field trips are required. Prerequisite: BIOL 1407.

BIOL 4425. 4 sem. hrs. (3:3)
ORNITHOLOGY
Systematics, anatomy, physiology, ecology, behavior, and field identification of birds. Prerequisite: BIOL 3414 or consent of instructor.

BIOL 4428. 4 sem. hrs. (3:3)
FISHERIES BIOLOGY
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.

BIOL 4429. 4 sem. hrs. (3:3)
MARINE BOTANY
The ecology of marine plants with emphasis on identification, life histories, and environmental factors of distribution. Prerequisite: BIOL 1407.

BIOL 4431. 4 sem. hrs. (3:3)
MAMMALOGY
Systematics and ecology of mammals. Prerequisite: BIOL 3414 or consent of instructor.

BIOL 4432. 4 sem. hrs. (3:3)
ICHTHYOLOGY
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.

BIOL 4433. 4 sem. hrs. (3:3)
PARASITOLOGY
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.

BIOL 4435. 4 sem. hrs. (2:4)
BIOLOGICAL MICROTECHNIQUES
Theory and techniques of processing specimens for histochemistry and microscopic examination. Laboratory includes preparation of tissues and small specimens for analysis and display. Prerequisites: CHEM 3411 and BIOL 1407.

BIOL 4436. 4 sem. hrs. (3:2)
MARINE ECOLOGY
Habitats and community structure in marine environments; biotic and abiotic factors governing the distribution of marine organisms. Prerequisite: BIOL 3428.

BIOL 4442. 4 sem. hrs. (3:3)
HERPETOLOGY
Systematics, ecology, and behavior of amphibians and reptiles. Prerequisite: BIOL 3414 or consent of instructor.

BIOL 4444. 4 sem. hrs. (3:3)
ESTUARINE ORGANISMS
Systematics, distribution, and ecology of estuarine macrofauna and macroflora. Weekend field trips and individual study required. Prerequisite: BIOL 3413.

BIOL 4590. 1-5 sem. hrs. (1:0-3:4)
SELECTED TOPICS
Variable content. May be repeated for credit. Prerequisite: Consent of the instructor. Offered on sufficient demand.
BIOMEDICAL SCIENCES (BIMS)________

The numbers of weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the semester hours. Additional laboratory work may be required to complete the assignments. All courses involving labs and field trips will require appropriate fees.

**BIMS 2171.** 1 sem. hr. (1:0)

**MEDICAL TERMINOLOGY**

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 2172.** 1 sem. hr. (1:0)

**INTRODUCTION TO BIOMEDICAL CAREERS**

Strategies and requirements for successfully applying to graduate and professional schools. This course includes discussions, presentations and field trips to graduate and professional schools. Limited to freshman and sophomore students with permission of the instructor.

**BIMS 2200.** 2 sem. hrs. (2:0)

**PROFESSIONAL SKILLS**

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.** 1 sem. hr. (0:3)

**ESSENTIALS LABORATORY FOR CLINICAL LABORATORY SCIENCE**

Application of essential practices for clinical laboratory science. Pre-requisite or Co-requisite: BIMS 3202.

**BIMS 3103.** 1 sem. hr. (0:3)

**ESSENTIALS LABORATORY FOR FORENSIC SCIENCE**

Application of essential practices for forensic science. Pre-requisite or Co-requisite: BIMS 3202.

**BIMS 3202.** 2 sem. hrs. (2:0)

**ESSENTIALS FOR APPLIED LABORATORY SCIENCES**

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 1312/1112.

**BIMS 3300.** 3 sem. hrs. (3:0)

**ANIMAL NUTRITION**

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 3320.** 3 sem. hrs. (2:2)

**SURVEY OF FORENSIC SCIENCE**

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.

**BIMS 3325.** 3 sem. hrs. (3:0)

**PROFESSIONAL PRACTICE IN FORENSIC SCIENCE**

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.** 4 sem. hrs. (4:0)

**PATHOPHYSIOLOGY**

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 1311 and BIOL 1407 or BIOL 2401.

**BIMS 3403.** 4 sem. hrs. (3:3)

**MOLECULAR BIOLOGY**

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.

**BIMS 4111.** 1 sem. hr. (1:0)

**CONTEMPORARY SCIENTIFIC READINGS**

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.** 1 sem. hr. (1:0)

**BIOMEDICAL SEMINAR**

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.** 1 sem. hr. (1:0)

**SEMINAR – CLINICAL CORRELATIONS**

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.

**BIMS 4295.2 sem. hrs.**

**BIOMEDICAL PRACTICUM**

Supervised learning experience with a community professional in health care (e.g., physician, dentist, veterinarian, chiropractor, pharmacist, physician assistant or physical therapist) or forensic science. 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 4297.** 2 sem. hrs

**PROFESSIONAL PRACTICUM I**

Supervised learning experience in selected departments of the clinical laboratories. Clinical Laboratory Science students only. Requires permission of instructor.
BIMS 4299. 1-2 sem. hrs. (0:10-20)
DIRECTED INDEPENDENT RESEARCH
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.

BIMS 4311. 3 sem. hrs.
BIOLOGY OF CANCER
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. 3 sem. hrs. (3:0)
NEUROBIOLOGY
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. 3 sem. hrs. (2:3)
CLINICAL CHEMISTRY I
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 4402 and BIOL 3430.

BIMS 4326. 3 sem. hrs. (3:0)
CLINICAL CHEMISTRY II
Continuation of BIMS 4325. Emphasis on advanced clinical chemistry topics and procedures. Prerequisite: BIMS 4325.

BIMS 4327. 3 sem. hrs. (3:0)
INTRODUCTION TO TOXICOLOGY
Principles of toxicology including absorption and excretion, biotransformation, chemical carcinogenesis, developmental toxicology and toxic agents. Prerequisites: BIOL 1407 and CHEM 1312.

BIMS 4330. 3 sem. hrs. (3:0)
BIOLOGICAL BASIS OF AGING
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. 3 sem. hrs. (2:3)
CLINICAL IMMUNOLOGY I
Theoretical aspects of the immune response and its relationship to the diagnosis of disease and 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.

BIMS 4332. 3 sem. hrs. (2:3)
CLINICAL IMMUNOLOGY II
Continuation of BIMS 4331. Emphasis on advanced clinical immunohematology and immunology topics and procedures. Prerequisite: BIMS 4331.

BIMS 4333. 3 sem. hrs. (3:0)
MEDICAL ENTOMOLOGY
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. 3 sem. hrs. (3:0)
HUMAN GENETICS
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. 3 sem. hrs. (3:0)
ENDOCRINOLOGY
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. 3 sem. hrs. (3:0)
FORENSIC SCIENCE IN CRIMINAL LAW
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 4365.3 sem. hrs. (2:3)
HEMATOLOGY I
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 hemoastasis. Prerequisite: BIOL 3430.

BIMS 4366. 3 sem. hrs. (2:3)
HEMATOLOGY II
Continuation of BIMS 4365. Emphasis on advanced topics in hematology. Prerequisite: BIMS 4365.

BIMS 4370. 3 sem. hrs. (2:3)
MEDICAL BACTERIOLOGY
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 4374.

BIMS 4374. 3 sem. hrs. (3:0)
MEDICAL MICROBIOLOGY
Study of common human pathogenic organisms. Includes bacterial, parasitic, viral and fungal infections with emphasis on pathogenesis and treatment. Prerequisite: BIOL 2421.

BIMS 4375. 3 sem. hrs. (3:0)
MECHANISMS OF MICROBIAL PATHOGENESIS
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 4378. 3 sem. hrs. (2:3)
ADVANCED MEDICAL MICROBIOLOGY
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 or Co-requisite: BIMS 4374.

BIMS 4380. 3 sem. hrs. (3:0)
INTRODUCTION TO THE CLINICAL LABORATORY PROFESSION
Studies of the latest instrumentation, instrument selection, basic research, quality assurance and statistics used in the clinical laboratory. Prerequisites: BIMS 3302 and CHEM 4402. Permission of instructor and application required.

BIMS 4382. 3 sem. hrs. (2:3)
ADVANCED MEDICAL LABORATORY PROCEDURES
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, CHEM 4402, and PHYS 1402. Permission of instructor and application required.

BIMS 4384. 3 sem. hrs. (3:0)
PROFESSIONAL SKILLS FOR CLINICAL LABORATORY SCIENTISTS
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. Permission of instructor and application required.

BIMS 4396. 1-3 sem. hrs. (1-3:0)
DIRECTED INDEPENDENT STUDY
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 credit.

BIMS 4406. 4 sem. hrs. (3:3)
IMMUNOLOGY
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).

BIMS 4410. 4 sem. hrs. (3:3)
HISTOLOGY
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.

BIMS 4590. 1-5 sem. hrs. (1:0-3:4)
SELECTED TOPICS
Variable content. May be repeated for credit. Prerequisite: Consent of the instructor. Offered on sufficient demand.

BIMS 4598. 5 sem. hrs.
PROFESSIONAL PRACTICUM II
Continuation of BIMS 4297. Requires permission of instructor and application.

BIMS 4599. 5 sem. hrs.
PROFESSIONAL PRACTICUM III
Continuation of BIMS 4598. Requires permission of instructor and application.

BUSINESS ADMINISTRATION (BUSI)___

BUSI 0011. 0 sem. hrs.
COB STUDENT CODE OF ETHICS AND PLAGIARISM
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.

BUSI 0088. 0 sem. hrs.
MAJOR FIELD TEST REVIEW
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 (BUSI 1301) 3 sem. hrs.
INTRODUCTION TO THE BUSINESS ENVIRONMENT
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 3301. 3 sem. hrs.
CONTEMPORARY BUSINESS TOPICS
A study of contemporary issues facing business and/or the business student. May be repeated for credit when topic varies. Prerequisites: Junior standing or above, and others depending on topic. Contact the Dean’s office for information.

BUSI 3315. 3 sem. hrs.
INTRODUCTION TO ENTREPRENEURSHIP
This is an initial course in entrepreneurship. Description and analysis of the history, philosophy, psychological/personal characteristics, organizational characteristics, business and societal planning tools, and practices of entrepreneurs and the firms which are created and maintained by entrepreneurs. Factors inside and outside the entrepreneurial firm are also considered as they affect and influence successful business decisions. Prerequisites: BUSI 1310 or MGMT 3312, Junior standing or above and/or permission of the instructor for non-business majors.

BUSI 4310. 3 sem. hrs.
INTERNATIONAL BUSINESS
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  
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 4396. **DIRECTED INDIVIDUAL STUDY  
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 LAW (BLAW) **

**BLAW 3310. **LEGAL ENVIRONMENT OF BUSINESS  
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  
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  
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  
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  
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  
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) **

Although there are stated prerequisites for almost every course, any course may be taken with permission of the instructor. The CHEM 1311 and CHEM 1312 classes presume high school chemistry. Lecture and laboratory hours per week are given in parentheses following credit hours listed for each course. For example, (3:0) denotes three lecture hours and no lab hours per week. Lab courses will have lab fees and possibly materials fees in addition to tuition charges.

**CHEM 1305 (CHEM 1305) **INTRODUCTORY CHEMISTRY  
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 1311 (CHEM 1311) **GENERAL CHEMISTRY I  
The foundation course in chemistry. Stoichiometry, chemical equilibria, atomic structure, chemical bonding, periodic properties, thermodynamics, chemical kinetics, and descriptive chemistry of the elements. 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.

**CHEM 1311I (CHEM 1311I) **GENERAL CHEMISTRY LAB I  
The laboratory course for CHEM 1311.

**CHEM 1312 (CHEM 1312) **GENERAL CHEMISTRY II  
The continuation of CHEM 1311, the foundation course in chemistry. This course counts toward the natural science component of the University Core Curriculum. Prerequisite: CHEM 1311 and MATH 1314 or equivalent math competency.

**CHEM 1112 (CHEM 1112) **GENERAL CHEMISTRY LAB II  
The laboratory course for CHEM 1312. Qualitative analysis of inorganic ions may be included. Prerequisite: CHEM 1111.

**CHEM 2490. **SPECIAL TOPICS  
May be repeated for credit. Subject materials variable. Offered on sufficient demand.
CHEM 3411. \hspace{1cm} 4 sem. hrs. (3:3)
**ORGANIC CHEMISTRY I**
The structure, nomenclature, synthesis, reactions, and mechanism 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 1311/1111.

CHEM 3412. \hspace{1cm} 4 sem. hrs. (3:3)
**ORGANIC CHEMISTRY II**
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.

CHEM 3417. \hspace{1cm} 4 sem. hrs. (3:3)
**QUANTITATIVE ANALYSIS**
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 1312.

CHEM 3418. \hspace{1cm} 4 sem. hrs. (3:3)
**INSTRUMENTAL ANALYSIS**
An introduction to instrumental methods of analysis: spectroscopy, chromatography, and electrochemical methods. Laboratory involves use of instrumentation in chemical analysis. Prerequisite: CHEM 1312.

CHEM 4085. \hspace{1cm} 0 sem. hrs. (0:0)
**MAJOR FIELD TEST IN CHEMISTRY**
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. \hspace{1cm} 2 sem. hrs. (2:0)
**SENIOR CHEMISTRY SEMINAR**
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. \hspace{1cm} 3 sem. hrs. (3:0)
**DRUGS, TOXINS AND NATURAL PRODUCTS CHEMISTRY**
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. \hspace{1cm} 3 sem. hrs. (3:0)
**CHEMICAL OCEANOGRAPHY**
The study of the oceans and seas as a chemical system, including interactions with both the biota and the solid earth. Prerequisite: CHEM 1312.

CHEM 4350.3 \hspace{1cm} sem. hrs. (3:0)
**POLYMER CHEMISTRY**
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. \hspace{1cm} 4 sem. hrs. (3:3)
**BIOCHEMISTRY I**
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.

CHEM 4402. \hspace{1cm} 4 sem. hrs. (3:3)
**BIOCHEMISTRY II**
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.

CHEM 4407. \hspace{1cm} 4 sem. hrs. (3:3)
**ADVANCED INORGANIC CHEMISTRY**
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 1312; Physical Chemistry is recommended.

CHEM 4409. \hspace{1cm} 4 sem. hrs. (3:3)
**ADVANCED INSTRUMENTAL ANALYSIS**
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.

CHEM 4420. \hspace{1cm} 4 sem. hrs. (3:3)
**PHYSICAL BIOCHEMISTRY**
The elements of physical chemistry applied to biological systems. Includes thermodynamics, kinetics, molecular structures, and the physical basis of biochemical techniques. Prerequisites: CHEM 4401, MATH 2413, and PHYS 1402 or PHYS 2426.

CHEM 4423. \hspace{1cm} 4 sem. hrs. (3:3)
**PHYSICAL CHEMISTRY I**
A fundamental approach to the study of physical and chemical phenomena, including the study of thermodynamics, gases and phase equilibria. Prerequisites: CHEM 1312, PHYS 1402 or PHYS 2426, MATH 2414.

CHEM 4424. \hspace{1cm} 4 sem. hrs. (3:3)
**PHYSICAL CHEMISTRY II**
A continuation of CHEM 4423, including the study of chemical kinetics, electrochemistry, molecular structure, and quantum mechanics. Prerequisite: CHEM 4423.

CHEM 4443. \hspace{1cm} 4 sem. hrs. (3:3)
**ENVIRONMENTAL CHEMISTRY**
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 1312, CHEM 3411.

**CHEM 4490. SPECIAL TOPICS**

May be repeated for credit. Subject materials variable. Offered on sufficient demand.

**CHEM 4696. DIRECTED INDEPENDENT STUDY**

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)__________**

**COMM 1305. FILM AND CULTURE**

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 (COMM 1307) 3 sem. hrs. MEDIA AND SOCIETY**

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 (SPCH 1315) 3 sem. hrs. PUBLIC SPEAKING**

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 (SPCH 1318) 3 sem. hrs. INTERPERSONAL COMMUNICATION**

Predominant issues related to verbal and nonverbal communication with a focus on interpersonal relationships.

**COMM 1342 (SPCH 1342) 3 sem. hrs. VOICE AND DICTION**

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. 3 sem. hrs. INTRODUCTION TO COMMUNICATION**

Overview of historical and contemporary trends in communication studies.

**COMM 2333 (SPCH 2333) 3 sem. hrs. SMALL GROUP COMMUNICATION**

Application of small group theories and techniques as they relate to group process and interaction.

**COMM 2350. 3 sem. hrs. MEDIA WRITING AND PERFORMANCE**

This course is designed to teach students articulation, pronunciation, effective writing and on-air performance techniques for commercials, PSAs, weather, sports, news, interviewing for various media environments with videotaped and audio taped presentations.

**COMM 2366 (DRAM 2366) 3 sem. hrs. INTRODUCTION TO FILM ART**

Examination of the elements of film art, including cinematography, sound, and editing, in a variety of cinematic forms and styles.

**COMM 3301. 3 sem. hrs. TELEVISION CRITICISM**

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. 3 sem. hrs. FILM HISTORY**

Development of the motion picture, 1895 to the present, with an emphasis on the narrative fictional film.

**COMM 3310. 3 sem. hrs. COMMUNICATION THEORY**

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. 3 sem. hrs. NONVERBAL COMMUNICATION**

The study of body movement, touch, paralanguage, space, environment, and other nonverbal factors in the communication process.

**COMM 3312. 3 sem. hrs. NEWSWRITING FOR TELEVISION, RADIO, AND THE INTERNET**

News collecting, interviewing, writing, and editing, for television, radio, and the Internet.

**COMM 3313. 3 sem. hrs. INTRODUCTION TO VIDEO PRODUCTION**

Basic principles and techniques of video production using digital video equipment.

**COMM 3314. 3 sem. hrs. TELEVISION PRODUCTION**

Fundamentals of studio television production. Field-based course, transportation required.

**COMM 3315. 3 sem. hrs. VIDEO EDITING**

This course will engage the student in the interpretation, analysis, and application of editing techniques using TV, film, commercials, experimental videos, documentaries, etc., and selected readings. Edited products resulting from this instruction will include a short narrative film, an abstract/experimental film, a commercial/public service announcement, and a short documentary film.

**COMM 3330. 3 sem. hrs. PERSUASION**

Various theories and forms of rhetorical persuasion. Topics include practical reasoning skills, psychological theories of persuasion, and critical responses to persuasive messages.

**COMM 3335. 3 sem. hrs. UIL DEBATE AND SPEECH**

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 3340. PUBLIC RELATIONS TECHNIQUES
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.

COMM 3351. SCREEN COMEDY
Examination of the varieties of film comedy, from silent comedy to contemporary forms, with some attention to the history and theory of comic performance.

COMM 3360. SCREENPLAY WRITING
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
This course explores communication behavior in interactive media such as the Internet, online communities, and video games. Course topics include communication and critical theories and applying these theories to online communication contexts, web site development strategies, interactive narratives, and issues of identity construction, cyberculture, and information privacy. This course meets the University computer literacy requirement.

COMM 4310. ADVANCED DIGITAL FILM MAKING
Narrative and documentary video production for advanced students. May be repeated for credit. Prerequisite: COMM 3313 and 3314 or equivalent

COMM 4311. DOCUMENTARY FILM
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 4314. GENDER COMMUNICATION
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. A service learning project may be a major component of this course.

COMM 4323. ORAL INTERPRETATION OF CHILDREN’S LITERATURE
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 THEA 4323 or ENGL 4370.)

COMM 4330. PUBLIC RELATIONS CASES & STRATEGIES
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.

COMM 4340. ADVERTISING CRITICISM
The examination of advertising history through critical and cultural approaches. Prerequisite: COMM 1307.

COMM 4345. INTERCULTURAL COMMUNICATION
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.

COMM 4350. COMMUNICATION IN ORGANIZATIONS
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.

COMM 4371. ACTING FOR THE CAMERA
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 4390. TOPICS IN COMMUNICATION
Study of specialized topics and themes in communication studies and media studies. May be repeated when topics vary.

COMM 4395. LEGAL AND ETHICAL ISSUES IN COMMUNICATION
Examination of legal and ethical issues in speech communications and mediated communication, including First Amendment and free speech ideals, control and regulation of broadcasting, and obscenity in media. Prerequisite: COMM 1307 and 1370. Non-majors may be admitted with permission by the instructor.

COMM 4396. DIRECTED INDIVIDUAL STUDY
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
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
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.

TOPICS IN COMMUNICATION
Study of specialized topics and themes in communication studies and media studies. May be repeated when topics vary.

COMM 4395. LEGAL AND ETHICAL ISSUES IN COMMUNICATION
Examination of legal and ethical issues in speech communications and mediated communication, including First Amendment and free speech ideals, control and regulation of broadcasting, and obscenity in media. Prerequisite: COMM 1307 and 1370. Non-majors may be admitted with permission by the instructor.

COMM 4396. DIRECTED INDIVIDUAL STUDY
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
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
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) ________
Most computer science courses are laboratory related and carry a laboratory fee. The numbers of weekly lecture and laboratory hours associated with each course are designated by (lecture: lab) following the semester hours. Additional laboratory work may be required to complete the assignments. We will make every effort to offer courses in the semesters listed below.
COSC 1315 (COSC 1300) 3 sem. hrs. (3:0)
COMPUTER LITERACY
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. 3 sem. hrs. (2:2)
INTRODUCTION TO INTERACTIVE DESIGN AND PROGRAMMING
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 1435 (COSC 1436) 4 sem. hrs. (3:2)
INTRODUCTION TO PROBLEM SOLVING WITH COMPUTERS I
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 (COSC 1437) 4 sem. hrs. (3:2)
INTRODUCTION TO PROBLEM SOLVING WITH COMPUTERS II
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. 1 sem. hrs. (2:0)
INTRODUCTION TO RESEARCH
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 2334. 3 sem. hrs. (3:0)
COMPUTER ARCHITECTURE
A concentrated study of internal computer concepts. Computer organization, machine and assembly language are emphasized. Prerequisite: COSC 1435. Fall, Spring.

COSC 2437 (COSC 2415) 4 sem. hrs. (3:2)
DATA STRUCTURES
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, hashing, stacks, queues, sorting, searching, and recursion. Prerequisites: COSC 1436. Co-requisite MATH 2305.

COSC 2470. 4 sem. hrs. (3:2)
COBOL PROGRAMMING
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. 3 sem. hrs. (3:0)
SURVEY OF COMPUTER SECURITY AND SOCIETAL ISSUES
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. 3 sem. hrs. (3:0)
OBJECT-ORIENTED PROGRAMMING
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 3336. 3 sem. hrs. (3:0)
INTRODUCTION TO DATABASE SYSTEMS
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. 3 sem. hrs. (3:0)
NETWORK DESIGN AND MANAGEMENT
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. 3 sem. hrs. (3:0)
OPERATING SYSTEMS
The study of the function, design and development of system software components. Topics include: compilers, linkers, loaders, processes, scheduling, deadlock, and memory management. Prerequisites: COSC 2334 or ENTC 3418 and COSC 2437. Fall, Spring.

COSC 3353. 3 sem. hrs. (3:0)
SURVEY OF PROGRAMMING LANGUAGES
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. 3 sem. hrs. (3:0)
VISUAL PROGRAMMING LANGUAGES
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
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 3370. SOFTWARE ENGINEERING
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. Fall, Spring.

COSC 3371. COMPUTER INFORMATION SYSTEMS
ECONOMICS
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
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. Prerequisite: COSC 2190. Co-require: COSC 2437. Fall.

COSC 3400. SKILLS FOR COMPUTING PROFESSIONALS
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 and COSC 2437. Fall, Spring.

COSC 4310. DIGITAL FORENSICS
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 4328. COMPUTER GRAPHICS
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. Prerequisites: COSC 2437, MATH 2413. MATH 3311, Linear Algebra is recommended. Fall.

COSC 4330. INTRODUCTION TO ARTIFICIAL INTELLIGENCE
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
Computer-based communication systems. Topics include: advanced computer network architectures, protocols, and programming. Prerequisites: COSC 3346, MATH 2413. Fall, Spring.

COSC 4343. ALGORITHMS
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
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
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
Teamwork and formal methods of systems analysis and design are emphasized. Students will complete a large group project. Prerequisites: COSC 3370 and COSC 3336. Fall, Spring.

COSC 4360. THEORY OF PROGRAMMING LANGUAGES
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 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. Grade will be Credit/No-Credit. Prerequisite: Approval by Department.

CRIMINAL JUSTICE (CRIJ)____________

CRIJ 1301 (CRIJ 1301) 3 sem. hrs.
INTRODUCTION TO CRIMINAL JUSTICE
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 (CRIJ 1313) 3 sem. hrs.
THE JUVENILE JUSTICE SYSTEM
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 (CRIJ 2328) 3 sem. hrs.
POLICE SYSTEMS AND PRACTICES
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.

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 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. 3 sem. hrs.
AMERICAN PRISONS AND PRISONERS
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. 3 sem. hrs.
CRIME AND PUNISHMENT IN LITERATURE
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. 3 sem. hrs.
WOMEN & CRIMINAL JUSTICE
An historical and ideological analysis of the role of women in the criminal justice system as offenders, reformers, and professionals.

CRIJ 4331. 3 sem. hrs.
JUVENILE DELINQUENCY
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. 3 sem. hrs.
CRIMINOLOGY
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. 3 sem. hrs.
CRIMINAL INVESTIGATION
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. 3 sem hrs.
RESEARCH METHODS IN CRIMINAL JUSTICE
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. 3 sem. hrs.
POLICE SUPERVISION & MANAGEMENT
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. 3 sem. hrs.
DOMESTIC VIOLENCE
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 4390. 3 sem. hrs.
TOPICS IN CRIMINAL JUSTICE
May be repeated for credit when topics vary.

CRIJ 4396. 1-3 sem. hrs.
DIRECTED INDIVIDUAL STUDY
See College description. Offered on application.

CRIJ 4398. 3 sem. hrs.
APPLIED EXPERIENCE
See College description. Offered on application.

DANCE (DANC)

DANC 1141 (DANC 1141) 1 sem. hr.
BALLET I
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 (DANC 1147) 1 sem. hr.
JAZZ DANCE I
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. May be repeated for credit.

DANC 1148 (DANC 1148) 1 sem. hr.
MODERN DANCE I
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 (DANC 1304) 3 sem. hrs.
DANCE IN PERFORMANCE
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.

ECED 2310. 3 sem. hrs.
SURVEY OF EARLY CHILDHOOD EDUCATION
An overview of early childhood education; its historical beginnings, theoretical basis, and variety of settings. This course will introduce the student to a variety of programs from day care through 4th grade.

ECED 3311. 3 sem. hrs.
DEVELOPMENTALLY APPROPRIATE PRACTICE IN EARLY CHILDHOOD EDUCATION
An intensive study of developmentally appropriate practice in early childhood education. 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 3324. 3 sem. hrs.
CHILD DEVELOPMENT
Provides the student with an overview of the physical, social, emotional, and psychological development of children from infancy through early childhood.
ECED 4310. 3 sem. hrs.
SOCIALIZATION OF THE YOUNG CHILD
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. 3 sem. hrs.
THE YOUNG CHILD, FAMILY & COMMUNITY RESOURCES
A study of current family structures, their relationship to the young child, society, & 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. 3 sem. hrs.
HEALTH, NUTRITION & LOCOMOTOR CONCEPTS FOR THE YOUNG CHILD
The relationship between health, nutrition, and locomotor development in the young child is investigated.

ECED 4340. 3 sem. hrs.
COMMUNICATION AND AESTHETICS
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.

ECED 4350. 3 sem. hrs.
MATHEMATICS, SCIENCE AND SOCIAL STUDIES IN EARLY CHILDHOOD EDUCATION
Skills and concepts taught in early childhood mathematics, science and social studies programs are identified and discussed. Strategies and curriculum materials that are developmentally appropriate for young children will be emphasized. Prerequisites: Junior standing; completion of EDCI 3311 (or EDCI 5305 for MAC Students), ECED 3324 and completion of (or concurrent enrollment in) SMTE 3315 or SMTE 3316.

ECED 4696. 1-6 sem. hrs.
DIRECTED INDIVIDUAL STUDY
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.

ECONOMICS (ECON)__________

ECON 2301 (ECON 2301) 3 sem. hrs.
MACROECONOMICS PRINCIPLES
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 (ECON 2302) 3 sem. hrs.
MICROECONOMICS PRINCIPLES
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. Prerequisite: MATH 1314 or equivalent. Satisfies the economics component of the University core curriculum.

ECON 3310. 3 sem. hrs.
INTERMEDIATE MACROECONOMICS
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 analyzed for the U.S. and global economies. Prerequisites: ECON 2301, ECON 2302, and Junior standing or above.

ECON 3311. 3 sem. hrs.
INTERMEDIATE MICROECONOMICS
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. 3 sem. hrs.
MONEY AND BANKING
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. 3 sem. hrs.
INTERNATIONAL ECONOMIC ISSUES
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. 3 sem. hrs.
ENVIRONMENTAL ECONOMICS
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 and Junior standing or above.

ECON 3320. 3 sem. hrs.
PUBLIC FINANCE
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. Pre-requisites: ECON 2301, ECON 2302 and junior standing or above.
Course Descriptions

ECON 3322. MANAGERIAL ECONOMICS
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 2301, ECON 2302, and Junior standing or above.

ECON 3325. ECONOMICS OF EUROPEAN INTEGRATION
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 4310. INTRODUCTION TO ECONOMETRICS
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. Pre-requisites: ECON 2301, ECON 2302, ORMS 3310 (or MATH 1342 or equivalent) and junior standing or above.

ECON 4388. HISTORY OF ECONOMIC THOUGHT
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. Pre-requisites: ECON 3310, ECON 3311 and junior standing or above.

ECON 4390. CURRENT TOPICS IN ECONOMICS
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
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
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.

EDUC 4392. EDUCATION/STUDENT TEACHING
(EDUC)

EDUC 4392. STUDENT TEACHING: EC-GRADE 6
Laboratory experiences and directed teaching in grades EC-Grade 6. Prerequisite: Admission to Student Teaching. Must be taken with EDUC 4693 Student Teaching: Grades 8-12

EDUC 4393. STUDENT TEACHING: GRADES 8-12
Laboratory experiences and directed teaching in grades 8-12. Prerequisite: Admission to Student Teaching. Must be taken with EDUC 4692 Student Teaching: EC-Grade 4

EDUC 4692. STUDENT TEACHING: EC-GRADE 4
Laboratory experiences and directed teaching in grades EC-Grade 4. Prerequisite: Admission to Student Teaching. Must be taken with EDUC 4393 Student Teaching: Grades 8-12.

EDUC 4693. STUDENT TEACHING: GRADES 8-12
Laboratory experiences and directed teaching in grades 8-12 in the student’s teaching field(s.) Prerequisite: Admission to Student Teaching.

EDUC 4394. STUDENT TEACHING: EC-GRADE 6
Laboratory experiences and directed teaching in grades EC-Grade 6. Prerequisite: Admission to Student Teaching. Must be taken with EDUC 4693 Student Teaching: Grades 8-12

EDUC 4696. DIRECTED INDIVIDUAL STUDY
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
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 4991. STUDENT TEACHING: EC-GRADE 4
Laboratory experiences and directed teaching in an EC-Grade 4 classroom. Prerequisite: Admission to Student Teaching.

EDUC 4992. STUDENT TEACHING: GRADES 4-8
Laboratory experiences and directed teaching in grades 4-8 in the student’s teaching field(s.) Prerequisite: Admission to Student Teaching.
EDUC 4993. 9 sem. hrs.  
STUDENT TEACHING: GRADES 8-12  
Laboratory experiences and directed teaching in grades 8-12. Prerequisite: Admission to Student Teaching.

EDUC 4694. 6 sem. hrs.  
STUDENT TEACHING: EC-GRADE 6  
Laboratory experiences and directed teaching in grades EC-Grade 6. Prerequisite: Admission to Student Teaching. Must be taken with EDUC 4393 Student Teaching: Grades 8-12.

EDUC 4696. 16 sem. hrs.  
DIRECTED INDIVIDUAL STUDY  
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. 6 sem. hrs.  
TEACHING INTERNSHIP  
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 4994. 9 sem. hrs.  
STUDENT TEACHING: EC-GRADE 6  
Laboratory experiences and directed teaching in an EC-Grade 6 classroom. Prerequisite: Admission to Student Teaching.

EDUCATIONAL CURRICULUM AND INSTRUCTION (EDCI)  

EDCI 2307. 3 sem. hrs.  
SCHOOLING IN A DEMOCRACY  
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.

EDCI 3311. 3 sem. hrs.  
SCHOOL AND SOCIETY  
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. Field experience required.

EDCI 4311. 3 sem. hrs.  
CLASSROOM MANAGEMENT: GRADES EC-4  
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 student teaching.

EDCI 4312. 3 sem. hrs.  
CLASSROOM MANAGEMENT: GRADES 8-12  
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 student teaching.

EDCI 4313. 3 sem. hrs.  
CLASSROOM MANAGEMENT: GRADES 4-8  
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 student teaching.

EDCI 4314. 3 sem. hrs.  
CLASSROOM MANAGEMENT: GRADES EC-6  
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 student teaching.

EDCI 4321. 3 sem. hrs.  
INSTRUCTIONAL DESIGN FOR SPECIAL POPULATIONS: GRADES EC-4  
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.

EDCI 4322. 3 sem. hrs.  
INSTRUCTIONAL DESIGN FOR SPECIAL POPULATIONS: GRADES 8-12  
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.

EDCI 4323. 3 sem. hrs.  
INSTRUCTIONAL DESIGN FOR SPECIAL POPULATIONS: GRADES 4-8  
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.

EDCI 4324. 3 sem. hrs.  
INSTRUCTIONAL DESIGN FOR SPECIAL POPULATIONS: GRADES EC-6  
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.

EDCI 4390. 1-6 sem. hrs.  
SPECIAL TOPICS  
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.)

EDCI 4605. 6 sem. hrs. PLANNING, TEACHING, ASSESSMENT AND TECHNOLOGY FOR GRADES EC-4 TEACHERS
This course is designed to provide the prospective EC-4 teacher with the pedagogical knowledge and skills necessary for the integrated teaching of math, science, social studies, language arts, kinesiology, art, and music. The use of technology in teaching these subject areas will be addressed throughout the course. Observation and collaboration with professional elementary 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. 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.

EDCI 4606. 6 sem. hrs. PLANNING, TEACHING, ASSESSMENT AND TECHNOLOGY FOR GRADES 8-12 TEACHERS
A study of planning, teaching assessment, and technology as they relate to teaching in grades 8-12. 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 high school curriculum. Two full days per week are required at a partner school site. Prerequisite: Admission to teacher education.

EDCI 4607. 6 sem. hrs. PLANNING, TEACHING, ASSESSMENT AND TECHNOLOGY FOR GRADES 4-8 TEACHERS
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 middle school curriculum. Two full days per week are required at a partner school site. 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.

EDCI 4608. 6 sem. hrs. PLANNING, TEACHING, ASSESSMENT AND TECHNOLOGY FOR GRADES EC-6 TEACHERS
This course is designed to provide the prospective EC-4 teacher with the pedagogical knowledge and skills necessary for the integrated teaching of math, science,
ings 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. Co-requisite: MATH 2413.

**ENGR 1212 (ENGR 1204)** 2 sem. hrs. (1:2)

**FOUNDATIONS OF ENGINEERING II**

Continuation of ENGR 1211. 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. Prerequisites: ENGR 1211 and MATH 2413.

**ENGR 1215** 2 sem. hrs. (1:2)

**CO-OP**

Job search and work skills; understanding engineering and industrial environments, communications, teamwork, and leadership skills; research and development, and patents review skills. Co-requisites: ENGR 1212.

**ENGR 2316** 3 sem. hrs. (3:0)

**THERMODYNAMICS**

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, MATH 2414.

**ENGR 2320 (ENGR 2332)** 3 sem. hrs. (2:3)

**STRENGTH OF MATERIALS**

Concepts in strength of materials, stress, strain; deformation under load, direct, shear, and combined stresses; stress concentration, bending stresses and torsional shear stresses, deflection in beams and shafts; columns, and pressure vessels. Prerequisite: ENGR 2321.

**ENGR 2321 (ENGR 2303)** 3 sem. hrs. (2:3)

**STATICS AND DYNAMICS**

Application of the fundamental principles of Newtonian mechanics to the statics and dynamics of particles; equilibrium of trusses, frames, beams and other rigid bodies. Prerequisites: MATH 2413 and PHYS 2425.

**ENGR 2322** 3 sem. hrs. (2:3)

**MATERIALS SCIENCE**

Mechanical, optical, thermal, magnetic and electrical properties of solids; differences in properties of metals, polymers, ceramics and composite materials in terms of bonding and crystal structure. Prerequisites: CHEM 1311, PHYS 2425.

**ENGR 2350** 3 sem. hrs. (2:3)

**MANUFACTURING PROCESSES**

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 2350.

**ENGR 2360 (ENGR 2305)** 3 sem. hrs. (2:3)

**CIRCUIT ANALYSIS**

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. Prerequisite: PHYS 2426.
Course Descriptions

ENTC 2450. 4 sem. hrs. (4:0)
INTRODUCTION TO THERMAL SCIENCE
Thermodynamics, heat transfer and fluid flow principles and their applications to electrical systems and digital devices. Topic includes: heat generation in printed-circuit boards and power transmission mediums, thermal resistance concept, junction temperature, cooling and heating loads, air and liquid cooled heat sinks, thermoelectric power generation and refrigeration, dielectric heating, heat pipes and vortex tubes.

ENTC 3323. 3 sem. hrs. (2:3)
ROBOTICS AND AUTOMATION
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 or ENTC 2418. Spring.

ENTC 3340. 3 sem. hrs. (2:3)
POWER PROTECTION SYSTEMS
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 system surveillance. Prerequisites: ENTC 3415.

ENTC 3406. 4 sem. hrs. (3:3)
FLUID MECHANICS AND FLUID POWER
Fluid properties, fluids statics, submerged and floating bodies, general energy equation, flow of fluids in pipes, forces exerted by fluids in motion, fluid power, hydraulic and pneumatic systems, flow past bodies, flow in open channels, compressible flow. Prerequisite: ENTC 2403. Fall.

ENTC 3408. 4 sem. hrs. (3:3)
STRENGTH OF MATERIALS
Concepts in strengths 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 2403.

ENTC 3410. 4 sem. hrs. (3:3)
MATERIAL SCIENCE
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 1311. Spring.

ENTC 3415. 4 sem. hrs. (3:3)
CIRCUIT ANALYSIS II
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, ENTC 1203, and MATH 2413. Fall.

ENTC 3416. 4 sem. hrs. (3:3)
DIGITAL FUNDAMENTALS
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. Prerequisite: ENTC 2414 or ENTC 2418. Spring.

ENTC 3418. 4 sem. hrs. (3:3)
MICROPROCESSORS/MICROCONTROLLERS
Introduction to microprocessor architecture, assembly language programming, and interfacing. Topics include computer organization, addressing modes, instruction set, interrupts, timing, memory, and interfacing. Prerequisites: COSC 1435. Fall.

ENTC 3420. 4 sem. hrs. (3:3)
THERMODYNAMICS
Thermodynamic properties of liquids and vapors in non-flow and steady-flow process, ideal gas law, applied to refrigeration, power plants, turbines compressors, and internal combustion engines. Prerequisites: PHYS 2425 or PHYS 1401, MATH 2413. Fall.

ENTC 3444. 4 sem. hrs. (3:3)
ELECTRONIC DEVICES AND CIRCUITS I
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 or ENTC 2418. Spring.

ENTC 3445. 4 sem. hrs. (3:3)
ELECTRONIC DEVICES AND CIRCUITS II
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 and PHYS 2425. Fall.

ENTC 3450. 4 sem. hrs. (3:3)
ELECTRONIC SYSTEM DESIGN
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. Spring.

ENTC 3455. 4 sem. hrs. (3:3)
SOLID MODELING APPLICATIONS
Introduction to differential equations. 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. Spring.

ENTC 4320. 3 sem. hrs. (3:0)
HEAT TRANSFER
Fundamental study of convection, conduction and radiation as applied to heat transport, heat exchangers, boilers, other heat transfer equipment. Prerequisite: ENTC 3406. Spring.

ENTC 4322. 3 sem. hrs. (2:3)
PROGRAMMABLE LOGIC CONTROLLERS
Introduction to PLCs and their use in industrial automation. Topics include programming, counters, timers, interrupts, and process control applications. Prerequisites: ENTC 3416. Fall.

ENTC 4335. 3 sem. hrs. (2:3)
ENERGY CONVERSION
Installation, design characteristics, operational performance, and maintenance of motors, turbines, pumps and compressors. Introduction to global energy concerns; fos-
sul 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 micropower turbines. Prerequisite: ENTC 3420. Spring.

ENTC 4336. RELIABILITY AND MAINTENANCE OF INDUSTRIAL EQUIPMENT
3 sem. hrs. (3:0)
Process industrial equipment, equipment reliability, basic stress analysis of pressure vessel elements, welding technology in repair and fabrication, fitness for service, failure mechanisms, major inspection and vessel codes, material selection, preventive, and predictive maintenance, fault tree and root cause analysis, CMMS, implementing TPM and technical and management issues. Prerequisite: ENTC 3408. Spring.

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 approved project in ENTC 4315, within budget and on schedule. Course requirements include a written report and oral presentations. To be taken the student’s final long semester before graduation. Prerequisite: ENTC 4415. Spring.

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 included as computer programming projects. Prerequisite: ENTC 4432. Fall.

ENTC 4415. PROJECT JUSTIFICATION AND 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. This course should be taken the semester preceding ENTC 4350. Prerequisite: Senior standing. Fall.

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 and ENTC 3418. Fall.

ENTC 4430. POWER TRANSMISSION & 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.

ENTC 4432. DESIGN OF MACHINE ELEMENTS
4 sem. hrs. (3:3)
Nature of mechanical design, stress deformation analysis, design of different types of machine elements such as flexible mechanical elements, gears, fasteners and welded joints, springs bearings, shafts, brakes, clutches, and couplings using conventional and computer aided design tools. Prerequisite ENTC 3408. Fall.

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 3444. Spring.

ENTC 4448. CONTROL SYSTEMS II
4 sem. hrs. (3:3)
Continuation of Control Systems I; Control systems design; controller mode selection; control loop tuning; data acquisition systems; distributed control systems; supervisory control; data transmission; networks; analysis and specification of complete control systems. Prerequisite: ENTC 4446. Fall.

ENTC 4465. INDUSTRIAL SAFETY AND ACCIDENT PREVENTION
4 sem. hrs. (4:0)
An introduction to OSHA and standards development for occupational health in general industry. Special attention to chemicals, flammable liquids and fire protection; industrial accident prevention; safe plant layout, safety in maintenance; boilers and pressure vessels; design of machine guards; toxic material handling and storage; industrial health engineering; power tools; biological, radiation, chemical, welding and electrical hazards; Nature of risk and human error; system and software hazard analysis.

ENTC 4490. SELECTED TOPICS
1-4 sem. hrs.
Subject material variable. May be repeated for credit when topics are different. Prerequisites: Vary depending upon topic. Offered on demand.

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: Vary depending upon area of study. Offered on demand.

ENTC 4697. CO-OP/INTERNSHIP
1-6 sem. hrs.
Supervised off campus training in the industrial workplace. Oral and written report required. Prerequisite: Approval of Engineering Technology and Cooperative Education Coordinators prior to enrollment in the course. Offered on demand.

ENGLISH (ENGL)

ENGL 0399. FUNDAMENTALS OF WRITING
3 sem. hrs.
A portfolio-based course focused on the writing process, including conferencing, pre-writing, revision, and editing techniques. Students will enter English 0399 through TASP-mandated remediation. (Not counted toward graduation.)

ENGL 1301 (ENGL 1301) COMPOSITION I
3 sem. hrs.
Principles, techniques, and processes of written composition, textual analysis, and critical thinking. Satisfies the university core curriculum requirement in composition.
Course Descriptions

ENGL 1302 (ENGL 1302) 3 sem. hrs.
COMPOSITION II
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 (ENGL 2332) 3 sem. hrs.
LITERATURE OF THE WESTERN WORLD:
FROM THE CLASSICS TO THE RENAISSANCE
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 (ENGL 2333) 3 sem. hrs.
LITERATURE OF THE WESTERN WORLD:
FROM THE ENLIGHTENMENT TO THE PRESENT
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. 3 sem. hrs.
THEMES AND GENRES IN ENGLISH LITERATURES
Study of literatures written by British authors and/or authors from former British colonies. May be used to satisfy the core requirement in literature. Prerequisites: ENGL 1301 and 1302.
ENGL 2335. 3 sem hrs.
THEMES AND GENRES IN THE LITERATURES
OF THE AMERICAS
Study of literatures written by authors of the Americas. May be used to satisfy the core requirement in literature. Prerequisites: ENGL 1301 and 1302.
ENGL 2370. 3 sem. hrs.
INTRODUCTION TO ENGLISH STUDIES
An introduction to literary analysis and scholarship for the intermediate writer. Emphasis placed on genres of literature, literary research, and expository and analytical composition. Should be taken by sophomore-level English majors. Prerequisites: ENGL 1301 and 1302.
ENGL 3301. 3 sem. hrs.
PRINCIPLES OF PROFESSIONAL & REPORT WRITING
A course designed to help students gain practical experience in finding and interpreting information and writing reports and documents for specialized audiences in the professional world. ENGL 3301 will be held in a computer-assisted classroom. Satisfies university computer literacy requirement. Typing ability is a prerequisite for this course. Prerequisites: ENGL 1301 and 1302.
ENGL 3320. 3 sem. hrs.
THE BIBLE AS LITERATURE
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. 3 sem. hrs.
FILM AND LITERATURE
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. 3 sem. hrs.
LITERARY PERSPECTIVES ON CHILDREN’S FICTION AND POETRY
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. 3 sem hrs.
LITERARY PERSPECTIVES ON YOUNG ADULT FICTION AND POETRY
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. 3 sem. hrs.
INTRODUCTION TO LINGUISTICS
Introductory survey course covering phonetics, morphology, syntax, semantics, sociolinguistics, neurolinguistics, and language acquisition. Offered in Spring.
ENGL 3340. 3 sem. hrs.
GRAMMAR
Presents a general descriptive overview of English grammar and provides a structural framework for analyzing English sentences.
ENGL 3341. 3 sem. hrs.
LITERATURE OF THE ENGLISH RENAISSANCE
A study of significant works of poetry, prose, and non-Shakespearean drama from 1500 to 1660.
ENGL 3342. 3 sem. hrs.
BRITISH LITERATURE BEFORE THE RENAISSANCE
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. 3 sem. hrs.
BRITISH LITERATURE OF THE 19TH THROUGH 21ST CENTURIES
A study of selected poetry, drama, and prose of the 19th through 21st Centuries centuries from a cultural perspective.
ENGL 3348. 3 sem. hrs.
DRAMA
A genre-oriented study of dramatic literature, using a wide range of texts. Variable content.
ENGL 3349. 3 sem.hrs.
THEMES AND FORMS OF POETRY
A genre-oriented study of poetry using a wide range of texts. Variable content.
ENGL 3353. 3 sem. hrs.
THE SHORT STORY
A study of the short story (mainly American) from its early beginnings in the mid-nineteenth century to present times.
ENGL 3354. 3 sem. hrs.
AMERICAN LITERATURE: TO 1865
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
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
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
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 & LITERATURE
Significant contemporary approaches to written discourse in English, including the study of composition and literature. Prerequisite: One reading course.

ENGL 3361. STRATEGIES AND GENRES OF ADVANCED WRITING
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
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 3366. LANGUAGE IN SOCIETY
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 3368. COMMUNITY LITERACY AND SERVICE LEARNING
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
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
Focuses on rhetorical theory in professional writing, such as the role of the audience and purpose, ethical decision making in professional writing, and the broad spectrum of types of professional writing. Students must make a C or better in ENGL 1301 or 1302 and must be able to type before enrolling in ENGL 3375.

This course is held in a computer-assisted classroom. It cannot substitute for other writing classes required for students in their disciplines. Satisfies university computer literacy requirement.

ENGL 3378. DESKTOP PUBLISHING
Focuses on the integration of text and visual rhetoric, such as graphics, for all kinds of professional publications including technical documents, newspapers, public relations pieces, and advertisements. Satisfies university computer literacy requirement.

ENGL 3379. WRITING IN COMPUTER-NETWORKED ENVIRONMENTS
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 3380. ADVANCED WRITING IN COMPUTER-NETWORKED ENVIRONMENTS
Attention is given to technical and professional writing for digital media and networked environments. Students will focus on planning, designing, and composing professional publications related to their area of study. Emphasizes theoretical as well as practical concepts related to writing and communication in digital networked environments, including the internet and the World Wide Web. For all majors. Satisfies university computer literacy requirement. Prerequisite: ENGL 3379 or permission of instructor.

ENGL 4304. SHAKESPEARE: TEXTS AND CONTEXTS
A study of selected dramatic works by William Shakespeare. Plays are 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
This course studies the significant works of a single, major author in the Western tradition. 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 4311. LITERATURE OF THE ENGLISH ROMANTIC PERIOD
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
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. 3 sem. hrs.
BRITISH LITERATURE OF THE 20TH AND 21ST CENTURIES
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. 3 sem. hrs.
PROFESSIONAL WRITING WORKSHOP
Tailored for individual students’ writing and publishing projects in their disciplines such as article writing, instructional manuals, grant writing, and feasibility studies.

ENGL 4321. 3 sem. hrs.
GRANT WRITING
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. 3 sem. hrs.
CREATIVE WRITING WORKSHOP I
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. 3 sem. hrs.
CREATIVE WRITING WORKSHOP II
A continuation of ENGL 4330. For all majors. Prerequisites ENGL 3362 and ENGL 4330.

ENGL 4340. 3 sem. hrs.
THE NOVEL

ENGL 4345. 3 sem. hrs.
RHETORIC, LITERATURE, AND WRITING
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. 3 sem. hrs.
STUDIES IN POETICS AND POETRY AND POETRY OF THE 19TH TO 21ST CENTURIES
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. 3 sem. hrs.
SENIOR CAPSTONE: 20TH AND 21ST CENTURY LITERATURE & WRITING
A study of twentieth- and twenty-first-century literature in English for the advanced writer. Emphasis placed on both creative writing and analytical expository writing. Prerequisite: ENGL 2370. This course should be taken during the student’s final year of academic study.

ENGL 4354. 3 sem. hrs.
SCIENCE FICTION
A thematic study of representative works in the genre.

ENGL 4360. 3 sem. hrs.
WOMEN’S LITERATURE
This course introduces students to literature by women, mainly in the U.S. It focuses on women authors’ relation to literary periods and conventions, as well as on the social context of their artistic productions.

ENGL 4361. 3 sem. hrs.
ETHNIC AMERICAN LITERATURE
Topics focus on the social and cultural contexts of artistic productions by Native American, African American, or Chicana authors.

ENGL 4370. 3 sem. hrs.
ORAL INTERPRETATION OF CHILDREN’S LITERATURE
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. 3 sem. hrs.
CRITICAL APPROACHES TO LITERATURE AND CULTURE
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. 3 sem. hrs.
TOPICS IN ENGLISH
May be repeated when topics vary.

ENGL 4396. 1-3 sem. hrs.
DIRECTED INDIVIDUAL STUDY
See College description. Offered on application.

ENGL 4397. 3 sem. hrs.
APPLIED EXPERIENCE IN TECHNICAL/PROFESSIONAL WRITING
Practical experience in technical and professional writing. May apply for three hours credit in the minor. Offered by application. See college description of applied experience for courses numbered 4398.

ENGL 4398. 3 sem. hrs.
APPLIED EXPERIENCE
See College description. Offered on application.

ENVIRONMENTAL SCIENCE (ESCI)___
Weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the semester hours. The indicated laboratory hours are laboratory instructional time. In most cases additional laboratory time will be required to complete assigned work. All courses involving labs will require appropriate fees.

Prerequisites for Environmental Science courses may be waived only by permission of the instructor. Environmental Science is a highly interdisciplinary field; courses applicable to the Environmental Science major or minor and which are offered by other departments appear in the appropriate sections of the catalog.

ESCI 1401 (ENVR 1401) 4 sem. hrs. (3:2)
ENVIRONMENTAL SCIENCE I: INTRO TO ENVIRONMENTAL SCIENCE
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. Fall.

ESCI 1402 (ENVR 1402) 4 sem. hrs. (3:2)
ENVIRONMENTAL SCIENCE II: SYSTEMS AND APPLICATIONS
Continues material introduced in ESCI 1401; this is not a prerequisite, but familiarity with basic environmental science is expected. Course takes a topical and case-study
approach to science. Laboratory emphasizes professional skills. This course counts toward the natural science component of the University Core Curriculum.

ESCI 1490. 1-4 sem. hrs. SELECTED TOPICS
Subject materials variable. May be repeated for credit when topics are significantly different. Faculty approval required.

ESCI 3202. 2 sem. hrs. (2:0) PROFESSIONAL SKILLS
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. 3 sem. hrs. (3:0) OCEANOGRAPHY
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 1312, or ESCI 1401 and 1402, or GEOL 1403, or permission of instructor.

ESCI 3403. 4 sem. hrs. (3:2) METEOROLOGY
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.

ESCI 4201. 2 sem. hrs. (2:0) SCIENTIFIC DIVING TECHNIQUES
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 4301. 3 sem. hrs. (3:0) ENVIRONMENTAL REGULATIONS
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: BIOL 3443, CHEM 3343/3143, and GEOL 3443 or permission of instructor.

ESCI 4320. 3 sem. hrs. (3:0) ENVIRONMENTAL HEALTH
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 4330. 3 sem. hrs. (2:2) OIL SPILL PREVENTION AND RESPONSE
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.

ESCI 4335. 3 sem. hrs. (3:0) CLIMATE AND CLIMATE VARIABILITY
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 4360. 3 sem. hrs. (3:0) PHYSICAL OCEANOGRAPHY
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 4370. 3 sem. hrs. (2:2) HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE
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.

ESCI 4408. 4 sem. hrs (3:3) ENVIRONMENTAL MICROBIOLOGY
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.

ESCI 4490. 1-4 sem. hrs. SELECTED TOPICS
Subject materials variable. May be repeated for credit when topics are significantly different. Faculty approval required.

ESCI 4496. 1-4 sem. hrs. DIRECTED INDEPENDENT STUDY
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. 1-4 sem. hrs. (Ind. study) INTERNSHIP IN ENVIRONMENTAL SCIENCE
One 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.

FINANCE (FINA)

FINA 1307 (FINA 1307) 3 sem. hrs. PERSONAL FINANCE
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. 3 sem. hrs.
FINANCIAL MANAGEMENT
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 10011, MATH 1325 or equivalent and Junior standing or above.

FINA 3312. 3 sem. hrs.
FINANCIAL MARKETS AND INSTITUTIONS
Course content 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. 3 sem. hrs.
INTERMEDIATE CORPORATE FINANCE
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. 3 sem. hrs.
INVESTMENTS
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 3350. 3 sem. hrs.
CASH MANAGEMENT
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. 3 sem. hrs.
INSURANCE PRINCIPLES
Fundamentals of risk management as practiced in the commercial life, health, property, and casualty insurance industries. Prerequisite: Junior standing or above.

FINA 3354. 3 sem. hrs.
REAL ESTATE PRINCIPLES
Fundamentals of real estate including site selection, legal processes and documents, financing, value determination, management, and marketing. Prerequisite: Junior standing or above.

FINA 3355
3 sem. hrs.
EMPLOYEE BENEFITS AND RETIREMENT PLANNING
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. 3 sem. hrs.
ADVANCED FINANCIAL MANAGEMENT
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. 3 sem. hrs.
INTERNATIONAL FINANCE
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. 3 sem. hrs.
FINANCIAL INSTITUTIONS MANAGEMENT
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 4332. 3 sem. hrs.
SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
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. 3 sem. hrs.
FINANCIAL STATEMENT ANALYSIS
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 financial implications. Assignments may differ depending on major. Prerequisites: ACCT 2301, ACCT 2302, FINA 3310, and Junior standing or above.

FINA 4390. 1-3 sem. hrs.
CURRENT TOPICS IN FINANCE
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. 1-3 sem. hrs.  
DIRECTED INDIVIDUAL STUDY  
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. 3 sem. hrs.  
INTERNSHIP IN FINANCE  
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)  
FREN 1311 (1311) 3 sem. hrs.  
FRENCH I  
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.)*  
FREN 1312 (1312) 3 sem. hrs.  
FRENCH II  
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 (FREN 2311) 3 sem. hrs.  
FRENCH III  
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 (FREN 2312) 3 sem. hrs.  
FRENCH IV  
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. 3 sem. hrs.  
FRENCH LIT 1800 TO PRESENT  
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)

GEOGRAPHIC INFORMATION  
SCIENCE (GISC)  
The numbers of weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the semester hours. Additional laboratory work may be required to complete the assignments. All courses involving labs and field trips will require appropriate fees.

GISC 1336. 3 sem. hrs. (2:2)  
DIGITAL DRAFTING AND DESIGN  
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. 4 sem. hrs. (3:3)  
GEOSPATIAL SYSTEMS I  
Introduction to Geographic Information Systems. Acquisition and conversion of data for mapping. Spatial data mapping using GIS databases. Principles and use of GIS software. No prerequisites. (Students may not receive credit for both GISC 1470 and GEOG 1470.)

GISC 2250. 2 sem. hrs. (0:6)  
FIELD CAMP I  
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 2438. 4 sem. hrs. (3:3)  
GEOSPATIAL SOFTWARE SYSTEMS I  
Geospatial Systems software engineering using software database modeling and design. Software engineering of applications to solve geospatial applications. Topics include use of relational databases, VB, Java, and Script design. Prerequisites: GISC 1470 and COSC 1435.

GISC 2470. 4 sem. hrs. (2:4)  
GEOSPATIAL PLANE MEASUREMENT I  
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 1436, and co-requisites: COSC 1435 and MATH 1316.

GISC 2490. 1-4 sem. hrs.  
SELECTED TOPICS  
May be repeated for credit depending on topic. Variable content. Offered on request.

GISC 3301. 3 sem. hrs. (2:3)  
GEOSPATIAL SYSTEMS II  
Advanced spatial analysis and modeling in GIS. Sources of spatial data acquisition including GPS. Use of topology in GIS. Digital spatial data representation including visualization using vector and raster formats. Digital elevation models. Prerequisite: GISC 1470, and MATH 2413 or MATH 1316.

GISC 3325. 3 sem. hrs. (2:2)  
GEODETIC SCIENCE  

GISC 3300. 3 sem. hrs. (3:0)  
GEOSPATIAL MATHEMATICAL TECHNIQUES  
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 em-
phasic 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 3412. 4 sem. hrs. (2:4)

GEOSPATIAL PLANE MEASUREMENT II
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 3416. 4 sem. hrs. (3:3)

PUBLIC INFORMATION IN GIS
Sources and uses of geographic information required for public policy information and analysis. Use of census data. The decision making process in public administration. The role of information policy in environmental sustainability. Prerequisites: GISC 3421 and GISC 3301.

GISC 3420. 4 sem. hrs. (3:3)

GEOSPATIAL SOFTWARE SYSTEMS II
GIS related applications. Topics covered include development and design of GIS web servers using SQL, Oracle and DB2. Real time GIS solutions with hand held mobile platforms. GIS wireless communication, VPN's, and Geospatial Database Engines will be covered. Prerequisite: GISC 2438.

GISC 3421. 4 sem. hrs. (3:3)

VISUALIZATION FOR GIS
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 4250. 2 sem. hrs. (0:6)

FIELD CAMP II
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, GISC 4410, and GISC 2250.

GISC 4280. 2 sem. hrs. (0:6)

GEOSPATIAL SYSTEMS INTERNSHIP
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.

GISC 4305. 3 sem. hrs. (3:0)

LEGAL ASPECTS OF SPATIAL INFORMATION
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. 3 sem. hrs. (2:2)

SATELLITE POSITIONING

GISC 4320. 3 sem. hrs. (2:2)

HYDROGRAPHY
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. 3 sem. hrs. (2:2)

GEOMATICS PROFESSIONAL PRACTICE
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. 3 sem. hrs. (2:2)

GEOSPATIAL SYSTEMS III
3D spatial analysis in GIS. Networking functions in GIS. GIS WWW servers. Visualization and data quality issues. User needs and management of geographic information systems; system life cycle; development; costs and benefits. A significant part of course work will include GIS assignments using ArcInfo. Prerequisite: GISC 3301 and GISC 2438.

GISC 4340. 3 sem. hrs. (3:0)

GEOSPATIAL COMPUTATIONS & ADJUSTMENT
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 3400.

GISC 4350. 3 sem. hrs. (0:6)

GEOSPATIAL SYSTEMS PROJECT
Requires a formal proposal of study to be completed in advance of registration and to be approved by the supervising faculty. Prerequisite: GISC 4335.

GISC 4371. 3 sem. hrs. (3:0)

HISTORY OF TEXAS LAND OWNERSHIP

GISC 4410. 4 sem. hrs. (3:2)

CADASTRAL MAPPING AND RECORDS
and rural cadastral issues. Use of coordinate systems in cadastral mapping. Prerequisite: GISC 3412.

GISC 4420. 4 sem. hrs. (3:3) GEOSPATIAL SYSTEMS DESIGN
Design and engineering of a GIS solution. Research of integrated Earth monitoring systems with real-time data flow analysis. Communication network systems, data quality analysis, and user needs and management of geographic information systems; system life cycle; development; costs and benefits. Prerequisite: GISC 4335.

GISC 4431. 4 sem. hrs. (3:3) REMOTE SENSING
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. Prerequisite: GISC 3400.

GISC 4590. 1-5 sem. hrs. SELECTED TOPICS
May be repeated for credit depending on topic. Variable content. Offered on request.

GISC 4596. 1-5 sem. hrs. DIRECTED INDEPENDENT STUDY
See College description. Offered on request. May be repeated for credit.

GISC 4690. 1 sem. hr. each term CO-OPEERATIVE EDUCATION
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.

GEOGRAPHY (GEOG) ________________

Geography courses are offered for students who wish to increase their knowledge of various regions of the world. These courses are offered as electives in support of major study areas in the College of Liberal Arts and the Minor in Geography. For a description of the Minor in Geography, please see the College of Science and Technology section of this catalog.

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.

GEOG 1300 (GEOG 1300) 3 sem. hrs. WORLD GEOGRAPHY
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. 4 sem. hrs. (3:2) GEOPHYSIC INFORMATION SYSTEMS I
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. 3 sem. hrs. GEOGRAPHY OF NORTH AMERICA
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) ________________

Weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the semester hours. The indicated laboratory hours are laboratory instructional time. In most cases additional laboratory time will be required to complete assigned work. All courses involving labs and field trips will require appropriate fees. Prerequisites for geology courses may be waived only by permission of the instructor.

GEOL 1301. 3 sem. hrs. (3:0) INTRODUCTION TO THE EARTH SCIENCES
One-semester introductory earth science course for students majoring in a non-science subject area. Origin, composition, and evolution of our planet, as well as geologic phenomena that affect everyday life, including global change, earthquakes, volcanism, desertification, flooding and erosion, groundwater, mineral resources, and plate tectonics. Not be counted toward a degree in Geology or Environmental Sciences. Will not substitute for GEOL 1403.

GEOL 1403 (GEOL 1403) 4 sem. hrs. (3:2) PHYSICAL GEOLOGY
The origin, classification, and composition of Earth materials. Internal and surface processes that modify Earth and other planets. Laboratory studies of minerals, rocks, and topographic, physiographic, and geologic maps. This course counts toward the natural science component of the University Core Curriculum.

GEOL 1404 (GEOL 1404) 4 sem. hrs. (3:2) HISTORICAL GEOLOGY
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, planetary, geological maps, and the interpretation of ancient environments of rock formation. This course counts toward the natural science component of the University Core Curriculum.

GEOL 2101. 1 sem. hr. (0:2) GEOLOGICAL FIELD EXPLORATIONS
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
GEOL 3315. 3 sem. hrs. (3:0)
GEOCHEMISTRY
Chemical processes responsible for the distribution of elements in the solid Earth, its oceans, and the atmosphere and changes as a function of time. Review of mathematical and chemical foundations, basic thermochemical principles, and phase relationships. Discussion of the inorganic, organic, and isotopic geochemistry of the Earth’s major systems (lithosphere, hydrosphere, and atmosphere). Prerequisites: CHEM 1311/1111, CHEM 1312/1112, and MATH 2413.

GEOL 3326. 3 sem. hrs. (2:3)
INTRODUCTION TO GEOLOGICAL FIELD METHODS
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.)

GEOL 3329. 3 sem. hrs. (3:0)
GEOLGY OF NATIONAL PARKS
Selected U.S. National Parks provide a basis to introduce students to the regional geology of the United States. Course covers about 25 U.S. National Parks representing a wide variety of geologic settings. Topics include: scenery developed by weathering and erosion on flat-lying rocks; caves and reefs; landscapes shaped by continental or alpine glaciation; volcanic features and volcanic activity; landscapes and structures in areas of complex mountains. Course includes review of major geologic principles and basic geologic concepts such as plate tectonics. Prerequisite: GEOL 1403 or GEOL 1404.

GEOL 3411. 4 sem. hrs. (3:2)
MINERALOGY
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 1311, and CHEM 1312 (may be taken concurrently.)

GEOL 3414. 4 sem. hrs. (3:2)
IGNEOUS AND METAMORPHIC PETROLOGY
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 3411.

GEOL 3441. 4 sem. hrs. (3:2)
INVERTEBRATE PALEONTOLOGY
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.

GEOL 3442. 4 sem. hrs. (3:2)
GEOMORPHOLOGY
Study of Earth and planetary surfaces. Physical and chemical processes that create and modify surface features. Prerequisite: GEOL 1403 or permission of instructor.

GEOL 3443. 4 sem. hrs. (3:2)
ENVIRONMENTAL GEOLOGY
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.

GEOL 3490. 1-4 sem. hrs.
SELECTED TOPICS
May be repeated for credit if topics are significantly different. Subject materials variable. Faculty approval required.

GEOL 4316. 3 sem. hrs. (3:0)
MARINE GEOSCIENCE
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, GEOL 1404, CHEM 1311, CHEM 1312.

GEOL 4322. 3 sem. hrs. (3:0)
GEOPHYSICS
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 4324. 3 sem. hrs. (1:3)
MODERN SHORELINE DEPOSITIONAL SYSTEMS
Basic principles of modern depositional systems and sedimentology. Field introduction to the basic concepts of clastic sedimentology, neoichnology, and sequence stratigraphy for those new to the subject and a comprehensive review for those familiar with the basic ideas of sedimentology and sequence stratigraphy. Field trips required. Prerequisites: GEOL 1403 (or equivalent), GEOL 4411 (or equivalent) or permission of instructor.

GEOL 4326. 3 sem. hrs. (1:4)
FIELD SEMINAR IN GEOLOGY
Field seminar in geology is designed to prepare students for summer field camp. Students will learn the basic techniques of geologic mapping in the field. The mapping project is framed as a problem in applied geology and involves independent problem solving, data analysis.
and interpretation, and report writing. With several additional class meetings prior to and following the field exercise, the class ends with a formal oral presentation. Prerequisites: GEOL 4411 and GEOL 4421.

**GEOL 4411. 4 sem. hrs. (3:2)**

**SEDIMENTATION AND STRATIGRAPHY**

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.

**GEOL 4421. 4 sem. hrs. (3:2)**

**STRUCTURAL GEOLOGY**

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.

**GEOL 4430. 1-4 sem. hrs. (Ind. study)**

**INTERNSHIP IN GEOLOGY**

One to four semester hours of credit may be earned by working in a non-paying, internship position in industry, with local government, private firm, or independent geologist. Prerequisite: 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. 4 sem. hrs. (3:2)**

**INTRODUCTION TO PETROLEUM GEOLOGY**

Introduction to the 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.

**GEOL 4444. 4 sem. hrs. (3:2)**

**HYDROGEOLOGY**

Introduction to fluid flow in geologic systems with an emphasis on groundwater and on the physical and chemical principles that control groundwater flow in the subsurface. Topics include the hydrologic cycle; physics of fluid flow in porous media, mathematical descriptions of groundwater flow, and geology of groundwater occurrences. Prerequisites: GEOL 1403, PHYS 1401 or 2425, and MATH 2413, or permission of instructor. GEOL 4490.1-4 sem. hrs.

**SELECTED TOPICS**

May be repeated for credit if topics are significantly different. Subject materials variable. Faculty approval required.

**GEOL 4496. 1-4 sem. hrs.**

**DIRECTED INDEPENDENT STUDY**

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. 6 sem. hrs. (0:12)**

**FIELD GEOLOGY**

Field course involving practical application of geologic principles to field problems. Field mapping and outcrop data collection in outcrops of all types; measurement of stratigraphic sections; mapping and preparation of geologic cross-sections; preparation of a geologic report. Six-week course will involve a variety of mapping and data collection and analysis problems on the Texas Gulf Coast and in West Texas, New Mexico, and Utah. Prerequisites: GEOL 3326, GEOL 3414, GEOL 4411, GEOL 4441, GEOL 4421. Recommended: GEOL 4326.

**GERMAN (GERM)___________________**

**GERM 1311 (GERM 1311) 3 sem. hrs.**

**GERMAN I**

Introduction to listening, speaking, reading, and writing skills within a German cultural framework. For students without previous knowledge of the language. One hour per week.

**GERM 1312 (GERM 1312) 3 sem. hrs.**

**GERMAN II**

Continued practice in listening, speaking, reading, and writing skills within a German cultural framework. German 1311 or equivalent required. One hour per week.

**GERM 2311 (GERM 2311) 3 sem. hrs.**

**GERMAN III**

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 (GERM 2312) 3 sem. hrs.**

**GERMAN IV**

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. * A lab fee is required for this course.

**HEALTH (HLTH)___________________**

**HLTH 2370. 3 sem. hrs.**

**INTRODUCTION TO HEALTH**

Concepts essential to understanding the health profession: competencies and career opportunities for professional health educators in school and community settings.

**HLTH 3342. 3 sem. hrs.**

**SEXUALITY IN HEALTH EDUCATION**

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. 3 sem. hrs.**

**SUBSTANCE ABUSE AND HEALTH**

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. 3 sem. hrs.**

**CONSUMER HEALTH**

This course is designed to provide general concepts, strategies and sources of information in selecting health products and services.

**HLTH 3371. 3 sem. hrs.**

**COMMUNITY AND ENVIRONMENTAL HEALTH**

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 4310. 3 sem. hrs.**

**EXERCISE AND HEALTH**

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. 3 sem. hrs.**

**PROGRAM DEVELOPMENT AND EVALUATION**

Theory and practice in evaluation of health programs in school and community; analysis of test results; evaluation of standardized health tests.

**HLTH 4350. 3 sem. hrs.**

**CREATIVE LIFE STYLES FOR WELLNESS**

A course supporting knowledge, attitudes, skills, and behaviors in the five wellness dimensions physical, social, emotional, intellectual, and environmental. Special emphasis will be placed on personal enrichment.

**HLTH 4696. 1-6 sem. hrs.**

**DIRECTED INDIVIDUAL STUDY**

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.

**HEALTH SCIENCES (HLSC)**

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.

**HLSC 3300. 3 sem. hrs. (3:0)**

**THE HEALTH CARE SYSTEM**

Overview of health and health care in the United States. Emphasis placed on various structural, economic, political, and financial components of the health care system. Roles of government, individuals and health care providers in the design and delivery of health care in the United States are explored. Should be taken during first semester of Health Sciences courses.

**HLSC 3310. 3 sem. hrs. (3:0)**

**EPIDEMIOLOGY**

Introduction to basic concepts, principles and methods of epidemiology with emphasis on prevention and control of public health problems.

**HLSC 3320. 3 sem. hrs. (3:0)**

**MARKETING AND TRANSCULTURAL HEALTH**

Introduction to provision of health care services congruent with consumers’ lifestyles using a marketing focus and health communications.

**HLSC 3330. 3 sem. hrs. (3:0)**

**FINANCIAL MANAGEMENT IN HEALTH CARE**

Introduction to health care accounting, financial management, and finance with a special emphasis on coding and classification methodologies, including ICD-9-CM, CPT, DRG and APC, used in health care reimbursement.

**HLSC 3340. 3 sem. hrs. (3:0)**

**QUANTITATIVE METHODS IN HEALTH CARE**

Introduction to quantitative methods applicable to health care. Operations management topics and research methodologies and statistics will be examined. Prerequisite: MATH 1442, 1342, or 2342.

**HLSC 3350. 3 sem. hrs. (3:0)**

**INFORMATION SYSTEMS AND TECHNOLOGY IN HEALTH CARE**

Overview of health care information systems with special emphasis on locating health resources via the internet. Satisfies university computer literacy requirement.

**HLSC 3370. 3 sem. hrs. (3:0)**

**COMPLEMENTARY & ALTERNATIVE MEDICINE**

Introduction to complementary and alternative medicine with an emphasis on related economic, political, legal, and social issues.

**HLSC 4300. 3 sem. hrs. (3:0)**

**MANAGEMENT & ORGANIZATION BEHAVIOR IN HEALTH CARE**

Introduction to principles of management and organization behavior in healthcare with emphasis on human resource management topics and issues.

**HLSC 4310. 3 sem. hrs. (3:0)**

**HEALTH LAW**

Introduction to law and the legal system with special emphasis on health related topics and issues.

**HLSC 4340. 3 sem. hrs. (3:0)**

**QUALITY MANAGEMENT & EVALUATION IN HEALTH CARE**

Introduction to principles of quality assessment and outcome management, and application of Total Quality Management principles in healthcare organizations.

**HLSC 4390. 1-3 sem. hrs.**

**SELECTED TOPICS IN HEALTH SCIENCE**

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. 1-3 sem. hrs.**

**DIRECTED INDEPENDENT STUDY**

Permission of Instructor required. Course not required for the BSHS but may be used to fulfill elective requirement.
Course Descriptions

HIST 4680. 6 sem. hrs. (1:15)
PRACTICUM
Applied, institution-based project. Prerequisite: Completion of all 1000, 2000 and 3000-level courses.

HIST 4680. 6 sem. hrs. (1:15)
PRACTICUM
Applied, institution-based project. The student must complete the immunization and background check requirements listed in the Undergraduate Course Catalog under Health Sciences Bachelor of Science before beginning the practicum experience. Prerequisite: Completion of 1000, 2000 and 3000-level courses or last 12 semester credit hours of degree completion.

HISTORY (HIST)

HIST 1301 (HIST 1301) 3 sem. hrs.
U.S. HISTORY TO 1865
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 (HIST 1302) 3 sem. hrs.
U.S. HISTORY SINCE 1865
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 (HIST 2311) 3 sem. hrs.
WESTERN CIVILIZATION I
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 (HIST 2312) 3 sem. hrs.
WESTERN CIVILIZATION II
A survey of the political, social, economic, military, cultural, and intellectual development of Europe from 1500 to the present.

HIST 3302. 3 sem. hrs.
LATIN AMERICAN HISTORY
An overview of important Latin American themes from 1400 to the present.

HIST 3315. 3 sem. hrs.
EUROPE 1750—1815
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. 3 sem. hrs.
EUROPE 1815—1914
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. 3 sem. hrs.
EUROPE 1914 TO THE PRESENT
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. 3 sem. hrs.
COLONIAL & REVOLUTIONARY U.S.
Traces regional economic, social, and political change in the Americas from 1607 to the end of the Revolution.

HIST 3321. 3 sem. hrs.
THE EARLY AMERICAN REPUBLIC
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. 3 sem. hrs.
CIVIL WAR AND RECONSTRUCTION
Background and causes of the Civil War; military, political, diplomatic, and economic developments during the War; Reconstruction and post-war adjustments.

HIST 3324. 3 sem. hrs.
US GILDED AGE AND PROGRESSIVE ERA
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. 3 sem. hrs.
EMERGENCE OF MODERN U.S.
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. 3 sem. hrs.
U.S. SINCE 2ND WORLD WAR
A study of American life and development as a world power since World War II.

HIST 3331. 3 sem. hrs.
TEXAS HISTORY
Spanish colonial period, Mexican statehood, independence, the development of the Republic, annexation and growth as a state.

HIST 3335. 3 sem. hrs.
THE U.S. URBAN EXPERIENCE
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. 3 sem. hrs.
MODERN EAST ASIA
This course will examine East Asia from 1800 to the present. While placing an emphasis on China, Japan and Southeast Asia, it also deals with other nations and peoples of the region. Topics include politics, the nation state, colonialism, empire, war, nationalism, the Cold War and revolution, all in a historical context.

HIST 4320. 3 sem. hrs.
U.S. CULTURAL EXPERIENCE
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 & LABOR HISTORY
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
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
The development of U.S. military strategy and policy from the Colonial Wars through Vietnam.

HIST 4336. MEXICAN AMERICAN HISTORY
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
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
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
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
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 4373. MEXICO: THE COLONIAL PERIOD
Outlines the colonial foundations of modern Mexico by tracing economic, social, and political change from European contact to independence.

HIST 4374. MEXICO: THE NATIONAL PERIOD
Traces economic, social, and political change in Mexico from independence to the present.

HIST 4385. HISTORICAL RESEARCH AND WRITING
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
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
See College description. Offered on application.

HIST 4398. APPLIED EXPERIENCE
See College description. Offered on application.

HONORS (HONR) ___________________

HONR 3340. ACADEMIC AND FIELD RESEARCH
An 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 lists 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
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
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 4195. PROJECT OF EXCELLENCE
A senior capstone experience required of all honors students who graduate from the program. The Project of Excellence consists of a paper, performance, or presentation of research results typical of professional work in the major field. The project is approved beforehand by the Honors Council and major department in which the
KINE 1100. 1 sem. hr.
BEGINNING RACQUETBALL
Instruction and practice in the skills, rules, and strategies of racquetball. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1101. 1 sem. hr.
BEGINNING GOLF
The study of techniques and knowledge pertinent to the game of golf. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1102. 1 sem. hr.
SWIMMING
Instruction and practice in the techniques, skills and safety practices for levels of swimming. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1103. 1 sem. hr.
BADMINTON
Instruction and practice of badminton skills, rules and strategy. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1104. 1 sem. hr.
GYNMASTICS
Skills, techniques, safety practices, rules and scoring criteria for gymnastics. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1105. 1 sem. hr.
SAILING
Instruction and practice in skills and safety involved in sailing. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1106. 1 sem. hr.
WEIGHT TRAINING
The study and practice of physiological principles related to training programs for the development of muscular strength and endurance. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1107. 1 sem. hr.
KARATE
Instruction and practice of contemporary techniques of karate. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1108. 1 sem. hr.
STRENGTH CONDITIONING FOR WOMEN
The study and practice of physiological principles relating to training programs for the development of muscular strength and endurance for women. Materials fee required.

KINE 1109. 1 sem. hr.
RHYTHMIC AEROBICS
A study of dance movement as it relates to physical fitness development. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1110. 1 sem. hr.
INDIVIDUAL/DUAL/LIFETIME SPORTS
Instruction, participation, and practice in a variety of individual, dual, and lifetime sports. Materials fee required.

KINE 1111. 1 sem. hr.
BEGINNING GOLF
The study of techniques and knowledge pertinent to the game of golf. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1112. 1 sem. hr.
PERSONAL SELF DEFENSE
Instruction and practice of contemporary techniques of self protection. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1113. 1 sem. hr.
TENNIS
Instruction and practice of techniques, skills, and strategy involved in tennis. May be repeated once for credit by non-Kinesiology majors. Materials fee required.
KINE 1114. VOLLEYBALL 1 sem. hr.
Instruction and practice of techniques, skills and strategy involved in volleyball. Materials fee required.

KINE 1115. SOCCER 1 sem hr.
Instruction and practice of techniques, skills, and strategies involved in soccer. Materials fee required.

KINE 1116. RANGER LEADERSHIP LABORATORY 1 sem. hr.
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. May be repeated for credit. Prerequisite: approval of Professor of Military Science.

KINE 1117. BASKETBALL 1 sem. hr.
Instruction and practice of techniques, skills, and instructional strategies involved in basketball. Materials fee required.

KINE 1118. SOFTBALL 1 sem. hr.
Instruction and practice of techniques, skills, and instructional strategies involved in softball. Materials fee required.

KINE 1119. BASEBALL 1 sem. hr.
Instruction and practice of techniques, skills, and instructional strategies involved in baseball. Materials fee required.

KINE 1120. FOOTBALL 1 sem. hr.
Instruction and practice of techniques, skills, and instructional strategies involved in football. Materials fee required.

KINE 1121. TRACK AND FIELD 1 sem. hr.
Instruction and practice of techniques, skills, and instructional strategies involved in track and field. Materials fee required.

KINE 1122. NON-TRADITIONAL TEAM SPORTS 1 sem. hr.
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. Materials fee required.

KINE 1123. BEGINNING ROCK CLIMBING 1 sem. hr.
The study and practice of the technical and educational skills necessary to safely conduct rock climbing and climbing associated activities. Materials fee required.

KINE 1124. BEGINNING JAZZ DANCE 1 sem. hr.
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. Materials fee required.

KINE 1131. YOGA 1 sem. hr.
Instruction and practice of Yoga postures, breathing, meditation and relaxation. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1132. FITNESS WALKING 1 sem. hr.
Instruction and practice of fitness walking. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1133. TAI CHI 1 sem. hr.

KINE 1134. BEGINNING SURFING 1 sem. hr.
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. Materials fee required.

KINE 1151 (PHED 1151) SCUBA AND SNORKELING 1 sem. hr.
Knowledge and techniques of snorkeling and scuba diving. Instruction will be directed toward obtaining a basic open water diver certification. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 1222. BASIC EQUESTRIAN SKILLS 2 sem. hrs.
Instruction and practice of skills and abilities involved in basic horsemanship and equitation. Materials fee required.

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 2107. INTERMEDIATE KARATE 1 sem. hr.
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. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 2134. ADVANCED TAI CHI 1 sem. hr.
Instruction and practice in advanced Taijiquan form and exercises. Solo and partner practice. Prerequisite: KINE 1133 or permission by instructor. May be repeated once for credit by non-Kinesiology majors. Materials fee required.
KINE 2135. INTERMEDIATE SURFING
1 sem. hr.
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. Materials fee required.

KINE 2191. CLINICAL EXPERIENCE IN ATHLETIC TRAINING I
1 sem. hr.
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. Materials fee required.

KINE 2192. CLINICAL EXPERIENCE IN ATHLETIC TRAINING II
1 sem. hr.
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. Materials fee required.

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. Materials fee required.

KINE 2215 (PHED 1206). FIRST AID AND SAFETY
2 sem. hrs.
Basic CPR and first aid instruction leading to American Red Cross certification. Materials fee required.

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. Material fees required.

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. Materials fee required.

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. Materials fee required.

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. Materials fee required.

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. Materials fee required.

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. Materials fee required.

KINE 2225. SPORTS CONDITIONING
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 athletic needs evaluation, exercise programming, and program implementation. Issues regarding resistance exercise, speed, endurance, explosiveness training, and agility will be addressed. Materials fee required.

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 group-fitness instruction. 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 (PHED 2255). WATER SAFETY INSTRUCTION
2 sem. hrs.
Skills and techniques of aquatic rescues and swimming programs. May be repeated once for credit by non-Kinesiology majors. Materials fee required.

KINE 2313 (PHED 1301). FOUNDATIONS OF KINESIOLOGY
3 sem. hrs.
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.** 3 sem. hrs.
**SPORT MANAGEMENT**
The study of operating principles for programs in intercollegiate athletics, professional sports, recreational sports, and community sports associations.

**KINE 2315.** 3 sem. hrs.
**CPR AND FIRST AID FOR THE PROFESSIONAL RESCUE**
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. Materials fee required.

**KINE 2316.** 3 sem. hrs.
**HEALTH AND FITNESS**
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 two hours of lecture and one hour of activity each week. Materials fee required.

**KINE 2325.** 3 sem. hrs.
**PHYSIOLOGICAL ASPECTS OF KINESIOLOGY**
An introduction to the fundamental principles of human physiology and their application to kinesiology.

**KINE 2355.** 3 sem. hrs.
**LIFEGUARD TRAINING**
This course provides instruction in first aid, CPR for professional rescuers, Automated External Defibrillator (AED) training, water safety and rescue skills. Materials fee required.

**KINE 2357.** 3 sem. hrs.
**SPORT OFFICIATING**
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** 3 sem. hrs.
**NUTRITION FOR HUMAN PERFORMANCE**
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 3191.** 1 sem. hr.
**CLINICAL EXPERIENCE IN ATHLETIC TRAINING III**
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. Materials fee required.

**KINE 3192.** 1 sem. hr.
**CLINICAL EXPERIENCE IN ATHLETIC TRAINING IV**
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. Materials fee required.

**KINE 3214.** 2 sem. hrs.
**PHYSICAL EDUCATION ACTIVITIES**
Application of principles of physical activities, games and sports. Materials fee required.

**KINE 3244.** 2 sem. hrs.
**RHYTHMIC AND DANCE ACTIVITIES**
Instruction and practice in creative and structured dance as applied to elementary and secondary school programs.

**KINE 3301.** 3 sem. hrs.
**OUTDOOR ADVENTURE PROGRAMS**
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. Materials fee required.

**KINE 3318.** 3 sem. hrs.
**PREVENTION AND CARE OF ATHLETIC INJURIES**
Provides the general knowledge and general application of theory, principles, and skills used in the prevention, care, and rehabilitation of athletic injuries. Materials fee required.

**KINE 3320.** 3 sem. hrs.
**THERAPEUTIC MODALITIES**
Provides the student with the knowledge of current theory and application of therapeutic modalities used in the treatment of athletic injuries. Prerequisites: KINE 3318. Materials fee required.

**KINE 3322.** 3 sem. hrs.
**EVALUATION OF UPPER EXTREMITY INJURIES**
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 3318 and KINE 2325 or BIOL 2401. Materials fee required.

**KINE 3324.** 3 sem. hrs.
**EVALUATION OF LOWER EXTREMITY INJURIES**
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 3318 and KINE 2325 or BIOL 2401. Materials fee required.

**KINE 3330.** 3 sem. hrs.
**PROMOTION OF SPORT**
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.** 3 sem. hrs.
**LEGAL ISSUES IN SPORT**
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.** 3 sem. hrs.
**PSYCHOLOGY OF SPORT**
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. 3 sem. hrs. 
MOTOR DEVELOPMENT/MOTOR LEARNING
A study of the fundamental principles related to human motor development and the scientific principles related to motor learning. Materials fee required.

KINE 3339. 3 sem. hrs. 
ELEMENTARY PHYSICAL EDUCATION PROGRAMS
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. Prerequisite: KINE 3338. Materials fee required.

KINE 3341. 3 sem. hrs. 
SECONDARY PHYSICAL EDUCATION PROGRAMS
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. Prerequisite: KINE 3338. Materials fee required.

KINE 3365. 3 sem. hrs. 
PERSONNEL MANAGEMENT IN SPORT
A study of human dynamics and behavior in the workplace of sport agencies. Prerequisite: KINE 2314.

KINE 3366. 3 sem. hrs. 
MANAGING LEISURE SERVICES
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. 1 sem. hr. 
PHYSIOLOGY OF EXERCISE LAB
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. Prerequisite: BIOL 2401.

KINE 4127. 1 sem. hr. 
BIOMECHANICS LAB
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. Prerequisites: BIOL 2401 and KINE 4325.

KINE 4191. 1 sem. hr. 
CLINICAL EXPERIENCE IN ATHLETIC TRAINING V
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. Materials fee required.

KINE 4192. 1 sem. hr.
CLINICAL EXPERIENCE IN ATHLETIC TRAINING VI
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. Materials fee required.

KINE 4193. 1 sem. hr.
CLINICAL EXPERIENCE IN ATHLETIC TRAINING VII
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 4326. Materials fee required.

KINE 4194. 1 sem. hr.
CLINICAL EXPERIENCE IN ATHLETIC TRAINING VIII
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. Materials fee required.

KINE 4308. 3 sem. hrs. 
FACILITIES DESIGN AND PLANNING
Introduction to the process of developing a variety of facilities found in public and private sport settings. Prerequisite: KINE 2314.

KINE 4310. 3 sem. hrs. 
PROGRAMS IN SPORTS AND PHYSICAL FITNESS
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. Materials fee required.

KINE 4311. 3 sem. hrs. 
MEASUREMENT AND EVALUATION
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. 3 sem. hrs.
PHYSIOLOGY OF EXERCISE
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: BIOL 2401 and KINE 1320 or KINE 2313. KINE 4112 must be taken concurrently with KINE 4312.

KINE 4322. 3 sem. hrs.
REHABILITATION OF ATHLETIC INJURIES
Rehabilitation for athletic injuries including goniometry, muscle testing, therapeutic exercises, and the use of SOAP notes. Prerequisite: KINE 3318 and KINE 2325 or BIOL 2401.
KINE 4324. 3 sem. hrs.  
ADMINISTRATION OF ATHLETIC TRAINING  
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. 3 sem. hrs.  
KINESIOLOGY  
An analysis of the skeletal, muscular, and neurological structure and functional aspects of human movement with emphasis on sport and fitness activities. Prerequisites: BIOL 2401 and KINE 1320 or KINE 2313.

KINE 4326. 3 sem. hrs.  
MEDICAL TERMINOLOGY AND CONDITIONS IN SPORT AND EXERCISE  
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 3318.

KINE 4327. 3 sem. hrs.  
BIOMECHANICS  
An analysis of the mechanical factors and principles influencing human motion with emphasis on sport and fitness activities. Prerequisites: BIOL 2401, KINE 1320 or KINE 2313, and KINE 4325. KINE 4327 must be taken concurrently with KINE 4127.

KINE 4328. 3 sem. hrs.  
SPORT AND EXERCISE PHARMACOLOGY  
Provides general knowledge of the classifications, legal concerns, therapeutic uses, actions, side effects, and adverse reactions of major drug groups related to sports activities.

KINE 4339. 3 sem. hrs.  
SPECIAL POPULATIONS IN KINESIOLOGY  
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. Materials fee required.

KINE 4340. 3 sem. hrs.  
EXERCISE TESTING AND PRESCRIPTION  
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 1320 or KINE 2313, KINE 4312 and BIOL 2401. Materials fee required.

KINE 4363. 3 sem. hrs.  
SPORT PROGRAMMING  
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. 1-3 sem. hrs.  
SEMINAR IN EXERCISE AND SPORT  
Contemporary issues in Exercise and Sport; topics vary with the individual. May be repeated for credit when topic varies.

KINE 4693. 6 sem hrs.  
PROFESSIONAL FIELD EXPERIENCE I  
This course is a field-based experience (minimum of 250 hours) to provide the student the opportunity to apply knowledge and theory related to the student’s specialization in kinesiology (e.g., Exercise Science, Sports 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 2.5. The field experience is for seniors only and they should enroll during their last semester. Students should not be enrolled in any other coursework during the internship.

KINE 4694. 6 sem hrs.  
PROFESSIONAL FIELD EXPERIENCE II  
This course is the continuation of Professional Field Experience I. A minimum of 250 hours is required for this portion of the internship for a total of 500 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. 1-6 sem hrs.  
DIRECTED INDIVIDUAL STUDY  
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.

MANAGEMENT (MGMT)  

MGMT 3312. 3 sem. hrs.  
BEHAVIOR IN ORGANIZATIONS  
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. 3 sem. hrs.  
COMMUNICATING IN BUSINESS  
A study of the fundamentals of effective communication in business and administration. Emphasis is placed on the application of modern techniques to business writing, including memos, letters and reports, and oral reporting. Prerequisites: BUSI 0011, MISY 2305 and Junior standing or above.

MGMT 3320. 3 sem. hrs.  
CONCEPTS OF HUMAN RESOURCE MANAGEMENT  
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. 3 sem. hrs.  
INTRODUCTION TO QUALITY MANAGEMENT  
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 3355. 3 sem. hrs.  
ORGANIZATION CHANGE AND DEVELOPMENT  
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 3390. 3 sem. hrs.
TRAINING, DEVELOPMENT AND CAREER PLANNING
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 3320 and Junior standing or above.

MGMT 4305. 3 sem. hrs.
STAFFING AND DEVELOPMENT
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. 3 sem. hrs.
MANAGING DYSFUNCTIONAL WORKPLACE BEHAVIOR
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. 3 sem. hrs.
MULTINATIONAL MANAGEMENT
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. 3 sem. hrs.
LEADERSHIP AND MANAGERIAL EFFECTIVENESS
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. 3 sem. hrs.
BUSINESS ETHICS
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. 3 sem. hrs.
COMPENSATION AND APPRAISAL SYSTEMS
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. 3 sem. hrs.
CRITICAL THINKING AND DECISION MAKING
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. 3 sem. hrs.
HUMAN RESOURCE PLANNING
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. 3 sem. hrs.
ADMINISTRATIVE POLICY AND STRATEGY
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. 1-3 sem. hrs.
CURRENT TOPICS IN MANAGEMENT
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. 1-3 sem. hrs.
DIRECTED INDIVIDUAL STUDY
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.  3 sem. hrs.
INTERNSHIP IN MANAGEMENT
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)

MISY 2305 (BCIS 1305)  3 sem. hrs.
COMPUTER APPLICATIONS IN BUSINESS
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.  3 sem. hrs.
MANAGEMENT INFORMATION SYSTEMS CONCEPTS
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. Emphasizes 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, MISY 2305 and Junior standing or above.

MISY 3320.  3 sem. hrs.
BUSINESS DATA COMMUNICATION SYSTEMS I
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: MISY 3310 and Junior standing or above.

MISY 3330.  3 sem. hrs.
DATA BASE MANAGEMENT
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: MISY 2305, COCS 1435 and Junior standing or above.

MISY 3340.  3 sem. hrs.
SYSTEMS ANALYSIS AND DESIGN
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: MISY 3330 and Junior standing or above.

MISY 3350.  3 sem. hrs.
BUSINESS APPLICATIONS DEVELOPMENT
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: MISY 3310 or equivalents and Junior standing or above.

MISY 4310.  3 sem. hrs.
BUSINESS DATA COMMUNICATIONS SYSTEMS II
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.  3 sem. hrs.
BUSINESS DECISION SUPPORT SYSTEMS AND EXPERT SYSTEMS
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: MISY 3310, MISY 3330 and Junior standing or above.

MISY 4330.  3 sem. hrs.
WEBSITE DEVELOPMENT FOR BUSINESS
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: MISY 3330 or equivalent and Junior standing or above.

MISY 4340.  3 sem. hrs.
ELECTRONIC COMMERCE MANAGEMENT
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: MISY 3310 and Junior standing or above.

MISY 4390.  1-3 sem. hrs.
CURRENT TOPICS IN MANAGEMENT INFORMATION SYSTEMS
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.  1-3 sem. hrs.
DIRECTED INDIVIDUAL STUDY
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.
MARKETING (MKTG)  
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. PROMOTIONAL STRATEGY  3 sem. hrs.
The development and implementation of a coordinated and integrated promotional program. 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. GUERRILLA MARKETING  3 sem. hrs.
Guerrilla marketing, as originally created by Jay Conrad Levinson, is an unconventional way of performing marketing activities (primarily promotion) on a very low budget. Students will learn the utilization and analysis of the small entrepreneurial organization, its products and services, the development of specific yet flexible marketing plans and activities, and the creation 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 guerrilla marketing decisions. Prerequisites: MKTG 3310, 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 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  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.
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 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.
MATH 0398. 3 sem. hrs. (3:0)
INTRODUCTION TO ALGEBRA
Number concepts, computation, elementary algebra, geometry, and mathematical reasoning. (Not counted toward graduation.) Fall, Spring, Summer.

MATH 1314 (MATH 1314) 3 sem. hrs. (3:0)
COLLEGE ALGEBRA
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 0398 or placement into MATH 0399. Fall, Spring, Summer.

MATH 1316 (MATH 1316) 3 sem. hrs. (3:0)
TRIGONOMETRY
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 (MATH 1324) 3 sem. hrs. (3:0)
BUSINESS MATHEMATICS
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 (MATH 1325) 3 sem. hrs. (3:0)
BUSINESS CALCULUS
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. 1-3 sem. hrs. (3:0)
INTRODUCTION TO MATHEMATICAL TOPICS
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. May be repeated for credit. Cr/NC. Prerequisite: Permission of the Department Chair.

MATH 1442 (MATH 1442) 4 sem. hrs. (3:2)
STATISTICS FOR LIFE
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 1314 or placement beyond MATH 1314; also non-remedial status in Reading and Writing as determined by placement testing or THEA. Fall, Spring, Summer.

MATH 1470. 4 sem. hrs. (3:2)
INTRODUCTION TO MODELING
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 one-hour 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 (MATH 2305) 3 sem. hrs. (3:0)
DISCRETE MATHEMATICS I
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 (MATH 2312) 3 sem. hrs. (3:0)
PRECALCULUS
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.
Course Descriptions

MATH 2413 (MATH 2413)  4 sem. hrs. (3:2)
CALCULUS I
Limits, continuity, derivatives, applications of the derivative, and an introduction to integrals. Counts as the mathematics component of the University Core Curriculum. Contains a one-hour laboratory component. Prerequisite: MATH 1314 and 1316, or MATH 2312, or placement beyond MATH 2312. Fall, Spring, Summer.

MATH 2414 (MATH 2414)  4 sem. hrs. (3:2)
CALCULUS II
Integration, applications of integration, especially to differential equations, sequences, series, Taylor polynomials and series. Contains a one-hour laboratory component. Prerequisite: MATH 2413. Fall, Spring, Summer.

MATH 3300.  3 sem. hrs. (3:0)
GEOSPATIAL MATHEMATICAL TECHNIQUES
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 3311.  3 sem. hrs. (2:2)
LINEAR ALGEBRA
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.  3 sem. hrs. (2:2)
COLLEGE GEOMETRY
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: MATH2413 and junior standing; MATH 3311 recommended. Fall, Summer.

MATH 3313.  3 sem. hrs. (3:0)
FOUNDATIONS TO HIGHER MATHEMATICS
This course assists a student's transition from calculus to advanced mathematics. Fundamentals of logic and proof are reviewed and applied to topics from analytic geometry and coordinate systems, complex numbers and elementary number theory. Prerequisite: MATH 2414 and MATH 2305. Fall, Spring.

MATH 3315.  3 sem. hrs. (2:2)
DIFFERENTIAL EQUATIONS
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. Prerequisite: MATH 2414. Spring.

MATH 3342.  3 sem. hrs. (3:0)
APPLIED PROBABILITY AND STATISTICS
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. A statistical software package will be used extensively in the course. Prerequisite: Math 2413. Fall.

MATH 3385.  3 sem. hrs. (3:0)
LINEAR OPTIMIZATION AND DECISIONS
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.  1-3 sem. hrs. (3:0)
PROBLEM SOLVING IN MATHEMATICS
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.  4 sem. hrs. (3:2)
CALCULUS III
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 2414

MATH 4301.  3 sem. hrs. (3:0)
INTRODUCTION TO ANALYSIS
INTRODUCTION TO ANALYSIS
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.  3 sem. hrs. (3:0)
MODERN ALGEBRA
Fundamentals of set operations, maps and relations, groups, rings and field theory. Topics include permutations, 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.  3 sem. hrs. (3:0)
PARTIAL DIFFERENTIAL EQUATIONS
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 odd years.

MATH 4321.  3 sem. hrs. (2:2)
APPLIED REGRESSION ANALYSIS
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.** 3 sem. hrs. (3:0)

**DISCRETE MATHEMATICS II**

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.** 3 sem. hrs. (3:0)

**INTRODUCTION TO MATHEMATICAL STATISTICS**

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.** 3 sem. hrs. (3:0)

**APPLIED MODELING**

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.** 3 sem. hrs. (3:0)

**SELECTED TOPICS**

Offered on sufficient demand. Prerequisites vary.

**MATH 4696.** 1-6 sem. hrs. (3:0)

**DIRECTED INDEPENDENT STUDY**

See college description. Prerequisite: Permission of the instructor. May not be substituted for regularly scheduled offerings.

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**MECHANICAL ENGINEERING (MEEN)**

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.

**MEEN 3310**

**ENGINEERING ANALYSIS FOR MECHANICAL ENGINEERING**

Applications of fundamentals of linear algebra, vector analysis, numerical methods, computer programming, and probability and statistics into mechanical engineering. Prerequisite: Math 3315.

**MEEN 3312**

**DYNAMICS AND VIBRATIONS**

Application of Newtonian and energy methods to model dynamic systems (particles and rigid bodies) with ordinary differential equations; solution of models using analytical and numerical approaches; interpreting solutions; linear vibrations. Prerequisite: ENGR 2320, MEEN 3310

**MEEN 3330**

**SOLID MECHANICS FOR ME**

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 2320

**MEEN 3340**

**SOLID MODELING AND FINITE ELEMENTS**

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, ENGR 2320, ENGR 3315

**MEEN 3345**

**HEAT TRANSFER**

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: ENGR2320, ENGR 3315, Math 3315

**MEEN 4220**

**ENGINEERING LAB**

Experimentation and analysis of thermal/fluid systems, energy balances, performance measurements of devices and systems, data analysis and correlation, elements of experimental design. Prerequisite: ENGR 3315, MEEN 3345

**MEEN 4320**

**MACHINE DESIGN**

Design of machine elements under static and fatigue loading; design and application of gearing; force analysis of spur, helical, bevel and worm gears; design of gears for static and fatigue loading; use of keys, pins, and spines to attach gears to shafts. Prerequisite: MEEN 3330

**MEEN 4325**

**ENERGY CONVERSION**

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

**MEEN 4340**

**PROJECT MANAGEMENT**

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. This course should be taken the semester preceding MEEN 4370. Prerequisite: Senior standing.

**MEEN 4350**

**CONTROLS, AUTOMATION AND ROBOTICS**

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: MEEN 3312
MEEN 4355 3 sem hrs (2:3) MARINE FABRICATION
Advanced topics in manufacturing and fabrication related to ships and offshore platforms and construction. Prerequisite: ENGR 2322, ENGR 2350

MEEN 4360 3 sem hrs (3:0) THERMAL SYSTEM DESIGN
Analysis, management and cost, team work, 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 included as computer programming projects. Prerequisite: MEEN 3345

MEEN 4365 3 sem hrs (3:0) MECHANICAL SYSTEM DESIGN
Analysis, management and cost, team work, optimal design, and computer simulation of mechanical systems and components; machine elements, and stress analysis. Selected course topics are included as computer programming projects. Prerequisite: MEEN 4320

MEEN 4370 3 sem hrs (3:0) CAPSTONE PROJECTS
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. To be taken in the student’s final long semester before graduation. Prerequisite: MEEN 4340

MEEN 4380 3 sem hrs (3:0) RENEWABLE ENERGY
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

MEEN 4385 3 sem hrs (3:0) OFFSHORE ENERGY MANAGEMENT
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. MEEN 4390 3 sem hrs (2:3) INTRODUCTION TO COMPUTATIONAL FLUID DYNAMICS
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 4220

MEEN 4395 3 sem hrs (2:3) OFFSHORE WATER EXPLORATION & DESALINATION SYSTEMS
Advanced and future applications of sea floor mapping, under-water acoustics and GIS for fresh water exploration & mining. Renewable energy driven coastal, nearshore, and offshore desalination systems. Prerequisite: MEEN 4220.

MEEN 4396. 1-3 sem hrs. DIRECTED INDEPENDENT STUDY
Requires a formal proposal of study to be completed in advance of registration, approval of supervising faculty and chairperson. Prerequisites: Vary depending upon area of study. Offered on demand.

MEEN 4697. 1-6 sem hrs. INTERNSHIP
Supervised off campus training in the industrial workplace. Oral and written report required. Prerequisite: Approval of Mechanical Engineering and Cooperative Education Coordinators prior to enrollment in the course. Offered on demand.

MEXICAN AMERICAN STUDIES (MXAS)

MXAS 3301. 3 sem hrs. INTRODUCTION TO MEXICAN AMERICAN STUDIES
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 3311. 3 sem hrs. MEXICAN AMERICAN LITERATURE
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. 3 sem hrs. TOPICS IN MEXICAN AMERICAN STUDIES
May be repeated when topics vary.

MILITARY SCIENCE (MSCI)

MSCI 1170. 1 sem hrs. INTRODUCTION TO BASIC MILITARY SCIENCE
A Basic Military Science course that introduces students to leadership and management principles. The primary emphasis is on personnel management, planning and operations, problem analysis and decision making, and the organization of the United States Army. The student will use small unit tactics as the role model for applying these techniques.

MSCI 1171. 1 sem hrs. BASIC MILITARY SCIENCE AND SURVIVAL
Methods and techniques of survival in various situations; designed to enhance self confidence and physical fitness through active participation in adventure training. Examines basic first-aid procedures, supplemented by training in cardiopulmonary resuscitation.

MSCI 2370. 3 sem hrs. BASIC MILITARY SCIENCE
Application of leadership principles and basic military skills; provides instruction in fire-team and squad level and examines the organization and role of the United States Army; increased emphasis on advanced land navigation and first-aid techniques; stresses physical fitness and provides adventure training.

MSCI 2371. 3 sem hrs. LEADERSHIP AND MANAGEMENT
Advanced leadership principles and basic military skills; personnel management and motivational techniques studied through placement of students in leadership
positions in assigned missions; studies the organization of the United States Army through battalion level. Stresses physical fitness and provides adventure training in leadership positions.

**MSCI 3303. 3 sem. hrs.**  
**ADVANCED MILITARY SCIENCE I**  
Methods and techniques of planning, preparing and conducting individual and collective military training. Leadership laboratory may be conducted off campus and additional activities are conducted on weekends. Prerequisite: Approval of Professor of Military Science.

**MSCI 3304. 3 sem. hrs.**  
**ADVANCED MILITARY SCIENCE II**  
The leader’s role in small unit tactics. Offensive and defensive operations. Communications equipment, weapons and other tactical equipment. Leadership laboratory work may be conducted off campus on weekends. Prerequisite: Approval of Professor of Military Science.

**MSCI 3499. 4 sem hrs.  
INTERNSHIP IN MILITARY SCIENCE**  
Six weeks of total environment training consisting of practical application of leadership and management. Requires attendance and successful completion of Leadership Development and Assessment Camp for up to 6 week period at a US Army installation. Formal instruction in tactics, techniques and skills required for all future officers. Prerequisites: MSCI 3303 and/or MSCI 3304 and full contract status with the U.S. Army. Prerequisite: Approval of Professor of Military Science.

**MSCI 4303. 3 sem. hrs.**  
**ADVANCED MILITARY SCIENCE III**  
Problem definition and analysis, decision-making, planning and organizing, functions of key staff members, interpersonal skills and oral communications. Laboratory activities may be conducted off campus on weekends. Prerequisite: Approval of Professor of Military Science.

**MSCI 4304. 3 sem. hrs.**  
**ADVANCED MILITARY SCIENCE IV**  
Military implications of world political and economic changes as well as changes within American society. Also covered are unit administration, logistics, command and staff functions and the legal basis of the military justice system. Prerequisite: Approval of Professor of Military Science.

**MSCI 4305. 3 sem. hr.**  
**ADVANCED PROBLEMS**  
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. 1-6 sem. hrs.**  
**DIRECTED INDIVIDUAL STUDY**  
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.

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**MUSIC (MUSI)______________________**

**Music Performance—Private Studio Instruction**

Applied music study for music majors is offered in voice and most instruments, including classical guitar. Specific regulations pertaining to private music study are set forth in the document A&M-CC Music Student Handbook, copies of which are available from the Music Department Chair.

Students in applied music classes are expected to perform from time to time in student recital programs, performance seminars, studio recitals, and in other performance settings. An instructor may set forth additional performance expectations, which then become a requirement for that particular course.

Jury examinations for applied music students are conducted at the end of each semester by faculty committees composed of instructors of voice and the various instrument families. Regulations regarding the specific conduct of the examinations are made by the individual jury panels. The judgements of the faculty members on the jury are available to the instructor for use in grading. The determination of whether a student is ready to advance to the next applied music level is made by the jury. Any of the applied music courses may be repeated for credit if the jury so recommends.

The complete inventory of private studio courses is far too extensive for inclusion in this document. Anyone desiring information beyond the following outline should contact the departmental office for a complete listing of the individual courses and course rotation.

**SECONDARY STUDIO 1 sem. hr.**  
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.

**PRINCIPAL FRESHMAN 2 sem. hrs.**  
The freshman level 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 class each week.

**PRINCIPAL APPLIED 2 sem. hrs.**  
The appropriate studio level for sophomore through senior students enrolled in either the Bachelor of Arts or the 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 class each week.

**PRINCIPAL APPLIED 3 sem. hrs.**  
Sequence of studio courses limited to sophomore through senior students enrolled in the Bachelor of Music in Performance degree program. One hour of private instruction and a one-hour studio class each week.
MUSI 3085. 0 sem. hr.
JUNIOR RECITAL
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 Program Coordinator. Requires concurrent enrollment in an appropriate Principal Studio course. Graded CR/NC.

MUSI 4085. 0 sem. hr.
SENIOR RECITAL
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.

Music Performance–Class Instruction
MUSI 1181, 1182, 2181, 2182. 1 sem. hr.
CLASS PIANO I, II, III, IV
Group instruction in piano for music majors, covering piano technique and literature, major and minor scales, transposition, sight reading, and simple harmonization of melodies. Keyboard majors accepted for degree-level study should substitute four semesters of Secondary Applied Studio.

MUSI 1302. 3 sem. hrs.
NON-MAJOR CLASS PIANO I
Group instruction in the elements of piano playing, designed for the non-major. No previous experience necessary.

MUSI 1303 (MUSI 1303) 3 sem. hrs.
BASIC GUITAR I
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 2302. 3 sem. hrs.
NON-MAJOR CLASS PIANO II
Extension of skill development begun in MUSI 1302 Non-Major Piano I. Prerequisite: successful completion of MUSI 1302 or permission of instructor.

MUSI 2303. 3 sem. hrs.
BASIC GUITAR II
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 3370. 3 sem. hrs.
CLASS VOICE
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.

Music Performance–Ensembles
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 1122 CONCERT BAND
MUEN 1123 SYMPHONIC WINDS
MUEN 1124 CONCERT ORCHESTRA
MUEN 1127 PEP BAND
MUEN 1128 STAGE BAND
MUEN 1131 PIANO ACCOMPANYING
MUEN 1132 CLASSICAL GUITAR ENSEMBLE
MUEN 1133 PERCUSSION ENSEMBLE
MUEN 1135 BRASS ENSEMBLE
MUEN 1136 WOODWIND CHOIR
MUEN 1137 CLARINET/SAX ENSEMBLE
MUEN 1138 JAZZ GUITAR ENSEMBLE
MUEN 1139 FLUTE ENSEMBLE
MUEN 1140 STRING ENSEMBLE
MUEN 1143 CHORALE
MUEN 1151 UNIVERSITY SINGERS
MUEN 1153 CHAMBER CHOIR
MUEN 1157 OPERA WORKSHOP

Music Appreciation
MUSI 1306 (MUSI 1306) 3 sem. hrs.
UNDERSTANDING AND ENJOYING MUSIC
An examination of the art of music. Topics include origins of music, definitions of music, and the history of its development. Satisfies the university core curriculum requirement in fine arts.

MUSI 3310. 3 sem. hrs.
HISTORY OF JAZZ
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.

Music Business and Technology
MUSI 3313. 3 sem. hrs.
APPLICATIONS OF MUSIC TECHNOLOGY
Applied experiences in the use of computer hardware, computer software, and electronic technology as it pertains to the discipline of music. Satisfies the university computer literacy requirement.

MUSI 3315. 3 sem. hrs.
RECORDING TECHNIQUES
An examination of the art of audio recording. Topics include signal flow of the mixing console, recording and sound reinforcement, application and techniques for microphones, use of sound effects, synchronization formats and recording devices.

MUSI 3316. 3 sem. hrs.
RECORDING TECHNIQUES II
A continuation of MUSI 3315 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, mastering, and product manufacturing.
Course Descriptions

MUSI 3320. 3 sem. hrs.
MUSIC BUSINESS SURVEY
Overview of the practices and procedures of the music industry, including such topics as career possibilities, publishing, labels, marketing and copyright law.

MUSI 3321. 3 sem. hrs.
MUSIC BUSINESS II
This course is a topic specific examination of the practices and procedures of the music industry, including starting a music business, marketing, and copyrights. Success in the Music Business II is based on the process of identifying opportunities in the entertainment marketplace, exploring potential resources to pursue those opportunities, and committing to action the resources necessary to exploit the opportunities for long-term gain.

Music Theory

MUSI 1116 (MUSI 1116) 1 sem. hr.
AURAL TRAINING I
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 (MUSI 1117) 1 sem. hr.
AURAL TRAINING II
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 1311 (MUSI 1311) 3 sem. hrs.
MUSICIANSHIP I
First principles of chord progression and phrase harmonization. Theory assessment required prior to enrollment.

MUSI 1312 (MUSI 1312) 3 sem. hrs.
MUSICIANSHIP II
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 1116 and MUSI 1116 with grades of “C” or better.

MUSI 2116 (MUSI 2116) 1 sem. hr.
AURAL TRAINING III
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 a grade of “C” or better.

MUSI 2117 (MUSI 2117) 1 sem. hrs.
AURAL TRAINING IV
Continuation of MUSI 2116; a companion course to MUSI 2312. Prerequisite: Prior completion of MUSI 2116 and MUSI 2311 with a grade of “C” or better.

MUSI 2311 (MUSI 2311) 3 sem. hrs.
MUSICIANSHIP III
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 a grade of “C” or better.

MUSI 2312 (MUSI 2312) 3 sem. hrs.
MUSICIANSHIP IV
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 a grade of “C” or better.

MUSI 3345. 1-3 sem. hrs.
COMPOSITION
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. May be repeated for credit. Music Studio course fee schedule is applicable to this course.

MUSI 3346. 3 sem. hrs.
FORM AND ANALYSIS OF TONAL MUSIC
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 a grade of “C” or better.

MUSI 4346. 3 sem. hrs.
ORCHESTRATION AND ARRANGING
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.

Music History and Literature

MUSI 1307 (MUSI 1307) 3 sem. hrs.
ELEMENTS OF MUSICAL STYLE
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 4334. 3 sem. hrs.
HISTORY OF WESTERN MUSIC I
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. 3 sem. hrs.
HISTORY OF WESTERN MUSIC II
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.

Music Education and Performance Pedagogy

MUSI 3166. 1 sem. hr.
WOODWIND TECHNIQUES I
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
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
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
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
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
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
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
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
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 3264. DICTION FOR SINGERS
Development of sufficient fluency with the International Phonetic Alphabet to allow practical applications in learning and teaching proper pronunciation of song texts in English, Italian, German, French, and Spanish. For music majors only.

MUSI 3354. ADVANCED CONDUCTING
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 4340. STUDIES IN REPERTOIRE
Systematic examination of the history and literature of a specific performance medium.

MUSI 4355. MUSIC FOR YOUNG CHILDREN
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
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
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
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.

Special Courses
MUSI 4390. TOPICS IN MUSIC
May be repeated for credit when topics vary.

MUSI 4396. DIRECTED INDIVIDUAL STUDY
See College description. Offered on application.

MUSI 4398. APPLIED EXPERIENCE
See College description. Offered on application.

NURSING (NURS)___________________

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
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. 3 sem. hrs. (3:0) USE OF PHARMACOLOGY PRINCIPLES
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.

NURS 3435. 4 sem. hrs. (3:3) HEALTH ASSESSMENT
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 in order to practice under supervision and demonstrate health assessment skills.

NURS 3548. 5 sem. hrs. (3:6) NURSING CARE OF CHILDREN AND THEIR FAMILIES
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. 5 sem. hrs. (3:6) NURSING CARE OF PARENTS/NEWBORNS
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. Experience in patient/family teaching such as childbirth classes is included. Prerequisites: NURS 3318, 3435, and 3614. Pre-Corequisite: 3342.

NURS 3614. 6 sem. hrs. (3:9) FUNDAMENTALS OF NURSING CARE
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. Pre-requisite NURS 4322; Co-requisite: 3435, 3318.

NURS 3628. 6 sem. hrs. (3:9) NURSING CARE OF ADULTS I
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, 3342, 3435, and 3514. Prerequisites: NURS 3318, 3435, and 3614. Pre-Corequisite: 3342.

NURS 4250. 2 sem. hrs. (2:0) PROFESSIONAL NURSING ISSUES
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. Prerequisites: NURS 3318, 3342, 3435, 3614, and Pre-Corequisite: NURS 3628, 4564, 3548, 3550.

NURS 4318. 3 sem. hrs. (3:0) NURSE AS RESEARCH CONSUMER
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. Prerequisites: MATH 1442, 1342, or 2342. The web-based version of this course (NURS 4318W01) satisfies the university computer literacy requirement.

NURS 4322. 3 sem. hrs. (3:0) HEALTH ALTERATIONS
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. May be taken in place of BIMS 3401 Pathophysiology.

NURS 4564. 5 sem. hrs. (3:6) NURSING CARE OF PSYCHIATRIC CLIENTS
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. Prerequisites: NURS 3548 or 3550 or 3628.
NURSING CARE OF ADULTS II
Prepares the student to critically analyze the patient’s problems through application of the nursing process. Clinical practice is designed to help the student integrate new knowledge into practice and develop the ability to act independently and responsibly. Students will examine health records and study nursing care plans, and will analyze patient care in actual health care settings. Applications of the nursing process vary in each clinical setting. Consumerism and legal issues are emphasized as they relate to individuals, families, and aggregates. A study of leadership, management, and change focuses on application to nursing practice. 
Prerequisites: NURS 3435, 4328, 4368.

NURSING CARE OF COMMUNITY HEALTH
This course focuses on the development of specific skills in providing health care and prevention services to the defined population of the community. Students will explore the impact of the environment on health and illness; examine the role of the community health nurse in providing care to populations; and learn to use the community as a client in the nursing process. The course includes study of population health; child health; physical, mental, and social health; and aging. The course meets on Saturdays and is directed by faculty specialties. Prerequisites: NURS 4396. 

NURSE AS RESEARCH CONSUMER
Provides superior nursing students who have demonstrated ability to function independently an opportunity to design and implement a research study or literature review in an area of interest. Prerequisites: Must be in last semester of senior year and meet eligibility requirements for nursing honors.

NURSING ELECTIVES
Nursing electives may be taken any semester an elective is offered. Electives are not required within the nursing degree plan but may be taken to increase breadth and depth of the student’s learning experience. Electives are offered under the following numbers:

NURS 4380. 1-3 sem. hrs.
NURSING HONORS
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. 1-3 sem. hrs.
DIMENSIONS IN NURSING
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. 1-3 sem. hrs
DIRECTED INDEPENDENT STUDY
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.

RN-BSN Option
General Education Requirements
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.

NURS 4335. 4 sem. hrs. (3:3)
HEALTH ASSESSMENT
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 4250. 2 sem. hrs. (2:0)
PROFESSIONAL NURSING ISSUES
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. 3 sem. hrs. (3:0)
NURSE AS RESEARCH CONSUMER
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-require: MATH 1342, 1442, or 2342. The web-based version of this course (NURS 4318W01) satisfies the university computer literacy requirement.

NURS 4320. 3 sem. hrs. (3:0)
PRINCIPLES AND CONCEPTS OF PATIENT EDUCATION
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. Prerequisites: BIOL 2401 and BIOL 2402. May be taken in place of BIMS 3401 Pathophysiology.
*NURS 4324. NURSE AS CAREGIVER 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 4465. CARE OF THE INDIVIDUAL WITHIN A FAMILY 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 4560. NURSING CARE OF COMMUNITY 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 4671. LEADERSHIP/MANAGEMENT 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.
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 4394. 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.
*Students in RN-MSN option may complete *courses by challenge exams. See the RN-MSN option under the nursing section in the graduate catalog.
OCCUPATIONAL TRAINING AND DEVELOPMENT (OCTD)
OCTD 3390. INSTRUCTIONAL MEDIA 3 sem. hrs.
Covers basic media, hardware, and software currently in use in the instructional and training fields. Techniques of operating media and equipment will be included. This course meets the university computer literacy requirement.
OCTD 4305. METHODS OF TEACHING CAREER AND TECHNOLOGY EDUCATION SUBJECTS 3 sem. hrs.
A basic course in the utilization of training methodology, including methods and technologies of learning. Prerequisite: OCTD 4335 completion of or concurrent enrollment. (May be taken for graduate credit.)
OCTD 4335. DEVELOPMENT, ORGANIZATION AND USE OF INSTRUCTIONAL MATERIALS 3 sem. hrs.
Planning for the delivery of the lesson cycle supplemented with appropriate media and materials. Material development, resources and learning assessment will be included. (May be taken for graduate credit.)
OCTD 4336. SHOP AND CLASSROOM ORGANIZATION AND MANAGEMENT 3 sem. hrs.
Organizations and management aspects of shops and laboratories. Includes space requirements, equipment, general arrangement, and safety. (May be taken for graduate credit.)
OCTD 4337. SELECTION, PLACEMENT AND FOLLOW-UP IN CAREER AND TECHNOLOGY EDUCATION 3 sem. hrs.
Coordination activities among the school, the community and business/industry essential for developing career and technology workBased programs. (May be taken for graduate credit.)
OCTD 4339. HISTORY OF CAREER AND TECHNOLOGY EDUCATION TRAINING
A history of training and the principles, philosophy, and practices developed by that history. (May be taken for graduate credit.)

OCTD 4340. ANALYSIS AND COURSE MAKING
Course development as related to occupational trends, changes, and needs. Focuses on identifying, analyzing, and designing a course of study for the pre-employment laboratory and the work-based learning classes.

OCTD 4387. CAREER AND TECHNOLOGY EDUCATION FOR THE EXCEPTIONAL CHILD
Strategies and procedures for teaching career and technology education to the handicapped, including independent living and socialization skills. Students with credit for OCTD 4387 may not receive credit for SPED 4320. (May be taken for graduate credit.)

OCTD 4696. DIRECTED INDIVIDUAL STUDY
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.

OCTD 4698. OCCUPATIONAL TRAINING AND DEVELOPMENT INTERNSHIP
Laboratory experience in a career and technology education classroom, or some other functional activity (e.g. administration) after demonstrating mastery of teaching competencies. Grade assigned will be “credit” (CR) or “no credit” (NC).

OPERATIONS MANAGEMENT (OPSY)______________________________

OPSY 4314. OPERATIONS MANAGEMENT
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
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
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
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)_______

ORMS 3310. DATA ANALYSIS AND STATISTICS
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)__________________________

PHIL 1301 (PHIL 1301) 3 sem. hrs.
INTRODUCTION TO PHILOSOPHY
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. (Replacing PHIL 3310.)

PHIL 2303 (PHIL 2303) 3 sem. hrs.
INTRODUCTION TO LOGIC AND CRITICAL THINKING
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. (Replacing PHIL 3305.)

PHIL 3322. 3 sem. hrs.
MODERN PHILOSOPHY
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, and the limits of human knowledge.

PHIL 3340. 3 sem. hrs. (1.5:1.5)
FOUNDATIONS OF PROFESSIONAL ETHICS
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 4331. 3 sem. hrs.
ISSUES IN PHILOSOPHY OF RELIGION
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 4390. 3 sem. hrs.
TOPICS IN PHILOSOPHY
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. 1-3 sem. hrs.
DIRECTED INDIVIDUAL STUDY
See College description. Offered on application.

PHYSICAL SCIENCE (PSCI)____________________
Courses previously listed under Physical Science are now listed under Science, Mathematics and Technology Education (SMTE).

PHYSICS (PHYS)____________________
Weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the semester hours.
PHYS 1401 (PHYS 1401) 4 sem. hrs. (3:3)
GENERAL PHYSICS I
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.
PHYS 1402 (PHYS 1402) 4 sem. hrs. (3:3)
GENERAL PHYSICS II
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.
PHYS 2425 (PHYS 2425) 4 sem. hrs. (3:3)
UNIVERSITY PHYSICS I
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.
PHYS 2426 (PHYS 2426) 4 sem. hrs. (3:3)
UNIVERSITY PHYSICS II
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.)

PHYS 3311. 3 sem. hrs. (3:0)
CLASSICAL MECHANICS
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. Prerequisite: PHYS 2426. Corequisite: MATH 3315.
PHYS 3312. 3 sem. hrs. (3:0)
MODERN PHYSICS
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. Prerequisite: PHYS 2426. Corequisite: MATH 3315.

PHYS 3490. 1-4 sem. hrs.
SELECTED TOPICS
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. Prerequisites vary. Instructor’s permission required.

POLITICAL SCIENCE (POLS)____________________
POLS 2305 (GOVT 2305) 3 sem. hrs.
U.S. GOVERNMENT & POLITICS
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 (GOVT 2306) 3 sem. hrs.
STATE AND LOCAL GOVERNMENT
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 in Texas government.)
POLS 3303. 3 sem. hrs.
CONTEMPORARY POLITICAL ANALYSIS
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. 3 sem. hrs.
WOMEN AND POLITICS
The course will examine public policies affecting women, political participation, women in public office, and political attitudes of women.
POLS 3312. 3 sem. hrs.
CAMPAIGN POLITICS
A survey of the literature on campaigns and elections. The student may (but is not required to) work with the staff of a political candidate and will participate in a community survey.
POLS 3313. 3 sem. hrs.
THE LEGISLATIVE PROCESS
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. 3 sem. hrs.
ELECTIONS & PUBLIC OPINION
An examination of voter choice models, campaign effects, and contemporary issues arising from the electoral process. 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.

POLS 3315. 3 sem. hrs.
PARTIES & INTEREST GROUPS
The role and significance of parties and interest groups in the political process. The origins, functions, structures, objectives and political activities of political parties and interest groups.

POLS 3316. 3 sem. hrs.
THE AMERICAN PRESIDENCY
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. 3 sem. hrs.
JUDICIAL POLITICS
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 3321. 3 sem. hrs.
COMPARATIVE POLITICS
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. 3 sem. hrs.
INTERNATIONAL RELATIONS
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. 3 sem. hrs.
INTRODUCTION TO PUBLIC ADMINISTRATION
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. 3 sem. hrs.
INTRODUCTION TO PUBLIC POLICY
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 3351. 3 sem. hrs.
U.S. CONSTITUTION AND FEDERALISM
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. 3 sem. hrs.
WESTERN POLITICAL THEORY
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 3363. 3 sem hrs.
THE ROOTS OF FREEDOM
The course will examine the ideology of our American and Texas systems of government. Students will study the Greek and Roman writers and philosophers who influenced the founders, Washington, Adams, Jefferson, and Madison, and will examine events and ideologies that played a role in the development of their philosophies. The history of such western political concepts as freedom, democracy, republic, constitutionalism, due process, and politics are also addressed.

POLS 3365. 3 sem. hrs.
POLITICAL THEORY & IDEOLOGIES
Major 19th and 20th-Century political theorists and ideological movements. Includes a review of capitalism, socialism, fascism, and liberalism.

POLS 4303. 3 sem. hrs.
SEMINAR IN POLITICAL SCIENCE
Capstone course for political science majors, examines significant developments and issues in American politics as they are addressed in the professional literature of political science. Offers the opportunity of an intensive study of a selected topic. Emphasis on supervised research on selected topic. Prerequisite: POLS 3303.

POLS 4311. 3 sem. hrs.
URBAN POLITICS
The institutions, political processes and policy issues of urban areas of the United States.

POLS 4312. 3 sem. hrs.
GOVERNMENT BUDGETING AND FINANCE
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. 3 sem hrs.
MEDIA AND POLITICS
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. 3 sem. hrs.
MEXICAN AMERICAN POLITICS
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 3 sem. hrs.
THE POLITICS OF THE EUROPEAN UNION
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 4322. 3 sem. hrs.
TRANSITIONS TO DEMOCRACY
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. 3 sem. hrs.
POLITICS IN LATIN AMERICA
Latin American governments and politics as related to such topical problems and processes as land reform and expropriation.

POLS 4327. 3 sem hrs.
THE POLITICS OF WAR
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. 3 sem. hrs.
AMERICAN POLITICAL THOUGHT
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. 3 sem. hrs.
TOPICS IN POLITICAL SCIENCE
May be repeated for credit when topic varies.

POLS 4396. 1-3 sem. hrs.
DIRECTED INDIVIDUAL STUDY
See College description. Offered on application.

PRE-ENGINEERING (ENGR)

ENGR 1211 (ENGR 1201) 2 sem. hrs. (1:3)
FOUNDATIONS OF ENGINEERING I
Introduction to the engineering profession, ethics, and disciplines; development of skills in teamwork, problem solving and design; other topics included, depending on the major, are: emphasis on computer applications and programming; visualization and CAD tools; introduction to electrical circuits, semiconductor devices, digital logic, communications and their application in systems; Newton’s laws, unit conversions, statistics, computers, Excel; basic graphics skills; visualization and orthographic drawings. Corequisite: MATH 2413. Fall, Spring.

ENGR 1212 (ENGR 1204) 2 sem. hrs. (1:3)
FOUNDATIONS OF ENGINEERING II
Continuation of ENGR 1211. 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. Prerequisites: ENGR 1211 and MATH 2413. Fall, Spring.

ENGR 2321 (ENGR 2303) 3 sem. hrs. (2:2)
STATICS AND DYNAMICS
Application of the fundamental principles of Newtonian mechanics to the statics and dynamics of particles; equilibrium of trusses, frames, beams and other rigid bodies. Prerequisites: MATH 2413 and PHYS 2425. Spring.

ENGR 2322 (ENGR 2332) 3 sem. hrs. (2:3)
MATERIALS SCIENCE
Mechanical, optical, thermal, magnetic and electrical properties of solids; differences in properties of metals, polymers, ceramics and composite materials in terms of bonding and crystal structure. Prerequisites: CHEM 1311 and PHYS 2425. Fall.

PSYCHOLOGY (PSYC)_______________________

PSYC 2301 General Psychology or its equivalent is required for admissions to all psychology courses beyond the 1000-level.

PSYC 2301 (PSYC 2301) 3 sem. hrs.
GENERAL PSYCHOLOGY
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 (PSYC 2314) 3 sem. hrs.
LIFESPAN DEVELOPMENTAL PSYCHOLOGY
The study of normal physical, cognitive, social, and emotional development from infancy to late adulthood.

PSYC 2326 (PSYC 2319/SOCI 2326) 3 sem. hrs.
SOCIAL PSYCHOLOGY
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 3 sem. hrs.
CLOSE RELATIONSHIPS
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 3326. 3 sem hrs.
PSYCHOLOGY OF AGING
A study of adult development and aging, including emotional, biological, and cognitive functioning. Focuses on normal aging; views aging as a period of both decline and growth.

PSYC 3342. 3 sem hrs.
COGNITIVE PSYCHOLOGY
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.

PSYC 3343. 3 sem. hrs.
LEARNING AND MEMORY
The study of the fundamental principles of learning through a consideration of theories and constructs, such as reinforcement, practice, generalization, discrimination, and memory processes.

PSYC 3361. 3 sem hrs.
PSYCHOLOGY OF PERSONALITY
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 3374. HUMAN SEXUALITY**
3 sem. hrs.
The study of human sexual behavior from a biological and psychosocial perspective. Emphasizes current research methods and findings.

**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. 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: A student must have completed 24 hours of Psychology course work before registering for PSYC 4309.

**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 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.

**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.

**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 of 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)**

**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 undergraduates. (Not counted toward graduation.) Course fee required.

**READ 3320. PRINCIPLES AND PRACTICES OF READING INSTRUCTION, GRADES EC-6**
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 comprehension strategies, vocabulary development, and word recognition knowledge as well as emergent literacy issues and strategies.
READ 3321. 3 sem. hrs.
PRINCIPLES AND PRACTICES OF READING INSTRUCTION, GRADES 4 – 8
This course will emphasize materials, methods, and beliefs for teaching reading in grades 4-8. Components of the course will include reading-writing connections, comprehension strategies, vocabulary development, and word study.

READ 3351. 3 sem. hrs.
DIAGNOSIS AND CORRECTION OF READING PROBLEMS
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. Prerequisite: READ 3320, READ 3321, or READ 3353.

READ 3352. 3 sem. hrs.
CONTENT AREA READING FOR ELEMENTARY STUDENTS
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. Prerequisite: READ 3320 or READ 3321.

READ 3353. 3 sem. hrs.
CONTENT AREA READING FOR SECONDARY STUDENTS
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. 3 sem. hrs.
TEACHING READING IN THE SECONDARY SCHOOL
This course focuses on planning, developing, selecting, and organizing reading materials for secondary reading instruction. Prerequisite: READ 3353.

READ 3356. 3 sem. hrs.
TECHNOLOGY AND LITERACY
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. 3 sem. hrs.
ADVANCED PRACTICES IN READING/LANGUAGE ARTS
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. This course must be taken concurrently with READ 4394. Prerequisites: READ 3320, READ 3351, or READ 4380.

READ 4380. 3 sem. hrs.
CHILDREN’S AND ADOLESCENTS’ LITERATURE
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. 3 sem. hrs.
FIELD EXPERIENCES IN READING
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. 1-6 sem. hrs.
DIRECTED INDIVIDUAL STUDY
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)______
Weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the semester hours.

SMTE 0091. 0 sem. hrs.
LABORATORY SAFETY SEMINAR
A laboratory safety seminar required once of every student who enrolls in a laboratory course in the Departments of Physical and Environmental Sciences and Life Sciences. Attendance is required at one safety training session held at the beginning of each term unless the student enrolls in a web-based section. Anon-credit course which laboratory students are may repeat.

SMTE 1350 (MATH 1350) 3 sem. hrs. (3:0)
FUNDAMENTALS OF MATHEMATICS I
The conceptual framework for understanding and applying properties, models, and operations related to various number systems in problem solving settings. Materials fee required. Prerequisite: MATH 1314. Fall, Spring, Summer. (Formerly MATH 3301.)

SMTE 1351 (MATH 1351) 3 sem. hrs. (3:0)
FUNDAMENTALS OF MATHEMATICS II
The conceptual framework for understanding and applying properties, models, and operations related to various data systems in problem solving settings. Materials fee required. Prerequisite: SMTE 1350. Fall, Spring, Summer. (Formerly MATH 3303.)

SMTE 3315. 3 sem. hrs. (2:2)
FOUNDATIONAL APPROACHES TO THE PHYSICAL SCIENCES
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. (Formerly PSCI 3315.)

SMTE 3316. 3 sem. hrs. (2:2)
FOUNDATIONAL APPROACHES TO THE LIFE SCIENCES
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. (Formerly BIOL 3315.)
SMTE 3352. FUNDAMENTALS OF MATHEMATICS III
The conceptual framework for understanding and applying properties, models, and operations related to various geometric systems in problem solving settings. Materials fee required. Prerequisite: SMTE 1351. Fall, Spring, Summer. (Formerly MATH 3302.)

SMTE 4217. SECONDARY APPROACHES TO THE LIFE SCIENCES
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
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 8-12 level science educators. (Formerly ESCI 4270.)

SMTE 4271. SCIENCE EDUCATION TOPICS II
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. (Formerly ESCI 4271.)

SMTE 4273. HISTORICAL DEVELOPMENT OF THE SCIENCES
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
This course is designed to assist the 4-8 and 8-12 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. (Formerly PSCI 4320 or BIOL 4420.)

SMTE 4370. MATHEMATICS EDUCATION TOPICS I
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
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 3311, MATH 3312, and completion of at least 90 hours. (Formerly MATH 4382.)

SMTE 4490. SELECTED TOPICS
Subject materials variable. May be repeated for credit when topics are significantly different. Faculty approval required.

SMTE 4496. DIRECTED INDEPENDENT STUDY
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.

SOCIAL WORK (SOCW)
Social Work courses are offered for students planning to enter this vocation. These courses may be taken as electives in support of major study areas in the College.

SOCW 3301. INTRODUCTION TO SOCIAL WORK
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
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
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
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. 1-3 sem. hrs
DIRECTED INDIVIDUAL STUDY
See College description. Offered on application. Prerequisite: consent of instructor.

SOCW 4398. 3 sem. hrs.
APPLIED EXPERIENCE
One semester course of field work in a selected agency. (See college description. Offered on application.) Prerequisite: consent of instructor.

SOCIOLOGY (SOCI)

SOCI 1301 (SOCI 1301) 3 sem. hrs.
HUMAN SOCIETIES
Study of the development of human societies from hunting and gathering tribes to postindustrial and Third World types, using a macro ecological-evolutionary theoretical approach to societal organization in retrospect and prospect for the future. (This course satisfies the University core requirement in social science.)(Required for Majors) Offered every semester including summer session II.

SOCI 2326 (SOCI 2326/PSYC 2319) 3 sem. hrs.
SOCIAL PSYCHOLOGY
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. 3 sem. hrs.
CULTURAL ANTHROPOLOGY
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 3312. 3 sem. hrs.
RACIAL AND ETHNIC RELATIONS
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. 3 sem. hrs.
POPULATION
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. 3 sem. hrs.
SOCIOLOGY OF GENDER
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. 3 sem. hrs.
MEXICAN AMERICAN WOMEN
A study of the Chicanas and the trends in society and Mexican-American culture affecting their lives and behaviors.

SOCI 3340. 3 sem. hrs.
SOCIOLOGY OF THE FAMILY
The study of the family, relationships among its members, and the relationship of family to other social institutions.

SOCI 3349. 3 sem. hrs.
SOCIOLOGY OF DEVIANT BEHAVIOR
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. 3 sem. hrs.
SOCIOLOGY OF EDUCATION
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. 3 sem. hrs.
NATIVE AMERICANS IN NORTH AMERICA
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. 3 sem. hrs.
SOCIAL THEORY
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 Spring only.

SOCI 4310. 3 sem. hrs.
SOCIOLOGY OF WORK AND OCCUPATIONS
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. 3 sem. hrs.
SOCIAL CLASS AND INEQUALITY
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 or permission of instructor.

SOCI 4315. 3 sem. hrs.
COMPLEX ORGANIZATIONS
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. 3 sem. hrs.
SOCIAL CHANGE AND MODERNIZATION
A study of how technology, culture, social movements, etc. affect large-scale change in societies.
SOCI 4320  3 sem. hrs.
SOCIOLOGY OF SPORTS
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.  3 sem. hrs.
MEDICAL SOCIOLOGY
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 4331.  3 sem. hrs.
JUVENILE DELinquency
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 CRJ 4331.)

SOCI 4335.  3 sem. hrs.
CRIMINOLOGY
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 CRJ 4335.)

SOCI 4375.  3 sem. hrs.
GRAYING IN AMERICA: SOCIOLOGY OF RETIREMENT
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.  3 sem. hrs.
SENIOR SEMINAR IN SOCIOLOGY
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.  3 sem. hrs.
TOPICS IN SOCIOLOGY
A consideration of various topics on social behavior and social structure. May be repeated when topics vary.

SOCI 4396.  1-3 sem. hrs.
DIRECTED INDIVIDUAL STUDY
See College description. Offered on application.

SOCI 4398.  3 sem. hrs.
APPLIED EXPERIENCE
See College description. Offered on application.

SOCI 4445.  4 sem. hrs.
SOCIAL RESEARCH METHODS
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.)

SPANISH (SPAN)

SPAN 1311 (SPAN 1311)  3 sem. hrs.
SPANISH I
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.) *

SPAN 1312 (SPAN 1312)  3 sem. hrs.
SPANISH II
Continued practice in listening, speaking, reading and writing skills within a Spanish cultural framework. Spanish 1311 or equivalent required. (Language laboratory required. One hour per week.) *

* A lab fee is required for these courses.

SPAN 2311 (SPAN 2311)  3 sem. hrs.
SPANISH III
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 (SPAN 2312)  3 sem. hrs.
SPANISH IV
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 (SPAN 2313)  3 sem. hrs.
SPANISH FOR NATIVE SPEAKERS
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.  3 sem. hrs.
SPANISH COMPOSITION
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.  3 sem. hrs.
SPANISH CONVERSATION
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.  3 sem. hrs.
SPANISH CIVILIZATION
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.  3 sem. hrs.
SPANISH AMERICAN CIVILIZATION
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
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
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
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
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
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
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
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
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.

SPAN 4302. MEXICAN NARRATIVE
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
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
A study of the Spanish that was brought to the Americas, its development, propagation and contact with native-American languages, and the sociocultural factors that have contributed to the linguistic variation in contemporary Spanish-speaking societies.

SPAN 4327. METHODS IN FOREIGN LANGUAGE INSTRUCTION
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
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.

SPED 4310. THE EXCEPTIONAL CHILD
Familiarizes the student with the various conditions of individuals with disabilities.

SPED 4315. MOTOR DEVELOPMENT FOR CHILDREN WITH SPECIAL NEEDS
A comparative overview of the physical development and motor-activity needs of children with disabilities.

SPED 4320. COMMUNITY-BASED INSTRUCTION FOR THE EXCEPTIONAL CHILD
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 EXCEPTIONAL CHILDREN
Introduction and demonstration of specific skills necessary for teaching the exceptional child.

SPED 4330. INDIVIDUALIZED PROGRAMS FOR EXCEPTIONAL CHILDREN
Emphasis is given to the design and implementation of individualized educational programs (IEP) for exceptional children.
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 4397. SPECIAL EDUCATION PRACTICUM 3 sem. hrs.
Provides the student with the opportunity to interact with exceptional children in a variety of settings ranging from non-involved observer to active participant. Grade assigned will be “credit” (CR) or “no credit” (NC.)

SPED 4398. ADVANCED SPECIAL EDUCATION PRACTICUM 3 sem. hrs.
Participation in various community centers, schools and programs. Students will be involved in the learning situation. 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) ________________________
THEA 1100 (DRAM 1120) 1 sem. hr.
THEATRE PRODUCTION LAB I
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.

THEA 1101 (DRAM 1121) 1 sem. hr.
THEATRE PRODUCTION LAB II
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.

THEA 1310 (DRAM 1310) 3 sem. hrs.
THE ART OF THE THEATRE
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 (DRAM 1341) 3 sem. hrs.
STAGE MAKEUP
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 (SPCH 1342) 3 sem. hrs.
VOICE AND DICTION
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 (DRAM 1351) 3 sem. hrs.
ACTING I
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 (DRAM 1352) 3 sem. hrs.
ACTING II
A continuation of Acting I with emphasis on characterization and working with extended realism. The student will study the theories of Constantin Stanislavski. Pre-requisite: THEA 1351.

THEA 1371 (DRAM 1342) 3 sem. hrs.
COSTUME CONSTRUCTION
A beginning overview of the vocabulary and basic sewing methods of theatrical costuming. Co-requisite THEA 1100.

THEA 2100 (DRAM 2120) 1 sem. hr.
THEATRE PRODUCTION LAB III
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 (DRAM 2121) 1 sem. hr.
THEATRE PRODUCTION LAB IV
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. 3 sem. hrs.
THEATRE STAGECRAFT
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 11101.

THEA 3100 1 sem. hr.
THEATRE PRODUCTION LAB V
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 1 sem. hr.
THEATRE PRODUCTION LAB VI
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. 1 sem. hr.
THE DESIGN AND TECHNICAL PORTFOLIO
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. 3 sem. hrs.
MOVEMENT FOR ACTORS
Explores the movement skills necessary for the actor with emphasis on individual physical training and improvisation. Prerequisites: THEA 1351, THEA 1352.

THEA 3301. 3 sem. hrs.
THEATRE FOR YOUTH
This course will present the student with a historical and theoretical basis for children’s theatre as well as presenting the student with classroom strategies and methodologies. Designed to serve three specific student populations: the theatre major, children’s theatre minor, and the elementary, middle, and high school education minor. The course will enable theatre majors to broaden
their appeal in a professional job market and will allow the education major to adhere to the Texas essential skills in theatre minimum guidelines.

THEA 3302. 3 sem. hrs.
CREATIVE DRAMATICS
Theories and practices incorporating the techniques of creative drama in the elementary classroom. Especially recommended for elementary education, recreation, and the social sciences.

THEA 3303. 3 sem. hrs.
THEATRE IN THE PUBLIC SCHOOLS
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. 3 sem. hrs.
CONTEMPORARY THEATRE
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. 3 sem. hrs.
SCRIPT ANALYSIS
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 3340. 3 sem. hrs.
AUDITION PREPARATION
Provides the student with the information and skills needed for auditioning in both professional and educational theatre. Prerequisites: THEA 1351, THEA 1352.

THEA 3350. 3 sem. hrs.
PRODUCTION MANAGEMENT
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 1351, THEA 3311, THEA 2370.

THEA 3370. 3 sem. hrs.
HISTORY OF THE THEATRE I
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. 3 sem. hrs.
HISTORY OF THE THEATRE II
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. 3 sem. hrs.
PRINCIPLES OF DESIGN
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. 3 sem. hrs.
ACTING III: PERIOD STYLES
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. 3 sem. hrs.
HISTORY OF THEATRICAL STYLES
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. 3 sem. hrs.
DRAWING AND RENDERING FOR THE STAGE
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. 3 sem. hrs.
DRAFTING AND COMPUTER-AIDED DESIGN FOR THE STAGE
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. 3 sem. hrs.
MUSICAL THEATRE
The student will receive practical experience in musical theatre performance. The focus of the course is on history, audition techniques, characterization, staging, and choreography.

THEA 4100. 1 sem hr.
SENIOR SEMINAR
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. 2 sem. hrs.
SENIOR CAPSTONE
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. 3 sem. hrs.
THEATRE TECHNOLOGIES
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. 3 sem. hrs.
COLLABORATIVE APPROACHES TO DESIGN
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...
THEA 4323. 3 sem. hrs. ORAL INTERPRETATION OF CHILDREN’S LITERATURE
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. 3 sem. hrs. TECHNICAL DIRECTION
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. 3 sem. hrs. STAGE DIRECTION I
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. 3 sem. hrs. STAGE DIRECTION II
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. 3 sem. hrs. COSTUME DESIGN
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. 3 sem. hrs. SET DESIGN
A study of the theory and practice of set design. Students will learn the fundamentals of theatre design and 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. 3 sem. hrs. ACTING FOR THE CAMERA
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. 3 sem. hrs. THEATRE PRACTICUM
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 4373. 3 sem. hrs. LIGHTING DESIGN
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. 3 sem. hrs. ADVANCED STAGE MAKEUP
A study of the theory and practice of designing makeup for the stage. Students will learn about a 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. 1-3 sem. hrs. THEATRE PRODUCTION
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. 1-3 sem. hrs. TOPICS IN THEATRE
Study of specialized topics and themes in the areas of acting, directing, and theatre history. May be repeated when topics vary.

THEA 4396. 1-3 sem. hrs. DIRECTED INDIVIDUAL STUDY
See College description. By application. Prerequisite: Approval of Instructor.

THEA 4398. 3 sem. hrs. APPLIED EXPERIENCE
See College description. By application. Prerequisite: Approval of Instructor.

UNIVERSITY CORE CURRICULUM PROGRAMS (UCCP)
WOMEN AND GENDER STUDIES (WGST)

Women and Gender Studies courses may be taken in support of major study areas in the University. These courses are required for students pursuing the Women and Gender Studies minor.

WGST 3301. 3 sem. hrs.
INTRODUCTION TO WOMEN AND GENDER STUDIES
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. 3 sem. hrs.
SENIOR SEMINAR IN WOMEN AND GENDER STUDIES
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.
Faculty, Regents, and Administration
Faculty and Librarians

(As of May 2009)

Abdelsamad, Moustafa H.
Professor of Finance and Dean of the College of Business; B. Com., Cairo University, Egypt; M.B.A., D.B.A., George Washington University.

Abudiab, Mufid A.
Associate Professor of Mathematics; B.S., University of Kuwait; M.S., Idaho State University; Ph.D., Kansas State University.

Addison, John (Bruce)
Adjunct Professor of Nursing; B.S., Texas A&M University-Corpus Christi; D.O., A.T. Still University of Health Sciences.

Aipperspach, Ruth
Instructor of Communication; B.A., John Brown University; M.S., University of North Texas.

Allred, Zachary
Government Documents Librarian; A.S., Salt Lake Community College; B.A., University of Utah; M.L.S, Emporia State University.

Anders, Tania
Instructor of Geology; M.S., Friedrich-Alexander University, Germany; Ph.D., Christian-Albrechts University, Germany.

Anderson, Jennifer Lynn
Cataloging Librarian; B.A., Texas A&M University-Corpus Christi; M.L.S., Texas Woman’s University.

Anderson, Mark W.
Professor of Art and Regents Professor; B.F.A., University of Nebraska; M.F.A., Wichita State University.

Anderson, Shane
Assistant Professor of Music; B.M., Eastman School of Music; M.M., D.M.A., University of Texas at Austin.

Andrade, Bruno
Professor of Art; B.S., Texas A&I University; M.F.A., University of Michigan.

Araiza, Isabel
Assistant Professor of Sociology; B.A., Texas A&M University-Corpus Christi; M.A., Ph.D., Boston College.

Arledge, Paula
Instructor of Political Science; B.A., Louisiana Tech University; M.A., Ph.D., University of New Orleans.

Babbili, Anantha S.
Provost and Vice President for Academic Affairs; B.S., B.J., Osmania University (India); M.A., University of Oklahoma; Ph.D., University of Iowa.

Balasubramanya, Mirley K.
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(As of May 2009)

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>Term Expires</th>
</tr>
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<tbody>
<tr>
<td>Bill Jones</td>
<td>Austin</td>
<td>(term expires 2009)</td>
</tr>
<tr>
<td>Chairman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John D. White</td>
<td>Houston</td>
<td>(term expires 2009)</td>
</tr>
<tr>
<td>Vice Chairman</td>
<td></td>
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</tr>
<tr>
<td>Phil Adams</td>
<td>Bryan</td>
<td>(term expires 2015)</td>
</tr>
<tr>
<td>Richard A. Box</td>
<td>Austin</td>
<td>(term expires 2013)</td>
</tr>
<tr>
<td>Morris E. Foster</td>
<td>Houston</td>
<td>(term expires 2013)</td>
</tr>
<tr>
<td>Lupe Fraga</td>
<td>Houston</td>
<td>(term expires 2011)</td>
</tr>
<tr>
<td>Bill Jones</td>
<td>Austin</td>
<td>(term expires 2015)</td>
</tr>
<tr>
<td>Erle Nye</td>
<td>Dallas</td>
<td>(term expires 2009)</td>
</tr>
<tr>
<td>Jim Schwertner</td>
<td>Austin</td>
<td>(term expires 2015)</td>
</tr>
<tr>
<td>Gene Stallings</td>
<td>Powderly</td>
<td>(term expires 2011)</td>
</tr>
<tr>
<td>Ida Clement Steen</td>
<td>San Antonio</td>
<td>(term expires 2011)</td>
</tr>
<tr>
<td>James P. Wilson</td>
<td>Sugar Land</td>
<td>(term expires 2013)</td>
</tr>
<tr>
<td>Anthony Cullins</td>
<td>Dallas</td>
<td>(term expires 2009)</td>
</tr>
<tr>
<td>Student Regent</td>
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</tr>
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</table>
Texas A&M University-Corpus Christi
Administration

(As of June 2009)

OFFICERS OF THE ADMINISTRATION

President
Flavius C. Killebrew, B.S., M.S., Ph.D.

Provost and Vice President for
Academic Affairs
Anantha S. Babbili, B.S., B.J., M.A., Ph.D.

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Vice President for Institutional Advancement
S. Trent Hill, B.B.A., M.S., Ph.D.

Associate Vice President for Planning
and Institutional Effectiveness
Paul E. Orser, Jr., B.A., Ph.D.

Associate Vice President for Research and
Scholarly Activity and Dean of Graduate Studies
Harvey Knell, B.S., M.S., Ph.D.

Associate Vice President for Academic Affairs
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Associate Vice President for Academic Affairs
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Associate Vice President for Enrollment
Management
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Associate Vice President for Finance and
Administration
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Karen Selim, B.S., J.D.

Assistant Vice President for Development

Charles C. Irby, B.A., M.T.

Moustafa H. Abdelsamad, B.C., M.B.A., D.B.A.

Assistant Vice President for Marketing and
Communications
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Kelly Quintanilla, B.A., M.A., Ph.D.

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Assistant Vice President for Technology
Frank L. Pezold, III, B.A., M.S., Ph.D.

James Needham, B.S., M.S., Ph.D.

Larry D. McKinney, B.S., Ph.D.

Interim Director of Intercollegiate Athletics
Scott Street

Director of South Texas Institute for the Arts
Joseph Schenk, B.A., M.A.

Mary Sherwood, B.J., M.P.A., Ph.D.

Chief of Staff

Interim Director of Intercollegiate Athletics

Director of Community Outreach

Director of Harte Research Institute

Directors of College of Business

Dean of College of Education

Interim Dean of College of Liberal Arts

Dean of College of Nursing and Health Sciences

Dean of College of Science and Technology

Director of Community Outreach

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Director of Harte Research Institute

Interim Director of Intercollegiate Athletics

Director of South Texas Institute for the Arts

Chief of Staff
ADMINISTRATIVE STAFF

Academic Affairs
Director of Academic Advising Transition Center
Patricia Hill, B.S., M.S., Ph.D.
Director of Academic Testing
Judith Pernales, B.B.A., M.B.A.
Director of Admissions
J. Christopher Fleming, B.A., M.A., Ed.D.
Director, Blucher Institute for Surveying and Science
Gary Jeffress, B.Surv., M.Surv.Sci., Ph.D.
Associate Director of the Harte Research Institute
John W. Tunnell, Jr., B.S., M.S., Ph.D.
Director of Education and Youth Issues
Joe Miller, B.A.
Director of Financial Assistance
Jeannie Gage, B.S.
Director of Harte Research Institute
Larry D. McKinney, B.S., Ph.D.
Director of Mary and Jeff Bell Library
Christine Shupala, B.A., M.L.S., M.B.A.
Director of Pollution Prevention Partnership
Gretchen Arnold, B.B.A., M.B.A.
Director of Title V/TRIO Programs
Victor Davila, B.A., M.A.
Director of Tutoring and Learning Center
Gerardo B. Moreno, B.A., M.S., M.A.
Director of Workforce Development
Carole Peterson, B.A.
Co-Directors of Core Curriculum
Juan Carlos Huerta, B.A., M.A., Ph.D.
Susan Wolff Murphy, B.A., M.A., Ph.D.
Michael Rendon, B.A.
University Registrar

Finance and Administration
Assistant Comptroller and Director of Accounting
Rebecca C. Torres, B.B.A., C.P.A.
Bursar
Christina Holzheuser, B.S.
Chief of University Police
Alan A. Gutierrez, B.A.A.S.
Director of Budgets
Kemberly Wedgeworth, B.B.A.
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 Physical Plant
Laurence Fischbach, B.S.
Director of Purchasing and HUB Program
Judy Harral, B.S.
Director of University Services
Reginald Wade, B.S.

Institutional Advancement
Director of Advancement Services
Sonia Hernandez, B.A., M.S.
Director of Alumni Relations
Evon English, B.B.A., M.B.A.
Director of Development
Noel O. Vella, B.S., M.B.A.
Director of Foundation and Donor Relations
Heather Guerrero, B.J., M.P.A.

Student Affairs
Assistant Dean of Students
Angela Walker, B.S., M.S.
Director of Career Services
Jo Anna Benavides-Franke, B.B.A. M.S.
Director of Disability Services
Rachel A. Cox, B.A., M.S.
Director of Recreational Sports
Jacqueline R. Hamilton, B.S., M.S.
Director of University Center and Student Activities
Lisa Perez, B.S., M.Ed.
Director of University Counseling Center
Carla Berkich, B.A, M.A., Ph.D.
Director of University Health Center
Deanna Mazziocco, R.N., B.S.N.
Director of University Housing
Amanda Chesser Drum, B.S., M.S., Ph.D.

University Registrar
Appendices

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.

**Freshman**
A degree-seeking undergraduate who has earned fewer than 30 semester credit hours. Also referred to as "first year student."

**Full-Time**
A degree-seeking undergraduate attempting 12 or more semester hours in a semester. A graduate student attempting 9 semester hours in a semester. The load for other terms is shown elsewhere in this catalog.

**GPA**
Grade Point Average. (Sometimes termed GPR: Grade Point Ratio). 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.

**Junior**
A degree-seeking undergraduate who has earned at least 60, but fewer than 90 semester credit hours.

**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.

Sophomore
A degree-seeking undergraduate who has earned at least 30, but fewer than 60 semester credit hours.

Senior
A degree-seeking undergraduate who has earned 90 or more semester credit hours.

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

TEXAS COMMON COURSE NUMBERING SYSTEM
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 in-
stitutions 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.

<table>
<thead>
<tr>
<th>TCCNS Courses</th>
<th>A&amp;M-Corpus Christi Course Numbers &amp; Titles</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2301</td>
<td>Principles of Accounting I - Financial ACCT 2301 Financial Accounting</td>
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<tr>
<td>ACCT 2302</td>
<td>Principles of Accounting II - Managerial ACCT 2302 Managerial Accounting</td>
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<tr>
<td>ARTS 1301</td>
<td>Art Appreciation ARTS 1301 Art and Society</td>
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<tr>
<td>ARTS 1303</td>
<td>Art History I ARTS 1303 Art History Survey I</td>
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<tr>
<td>ARTS 1304</td>
<td>Art History II ARTS 1304 Art History Survey II</td>
</tr>
<tr>
<td>ARTS 1311</td>
<td>Design I (2-dimensional) ARTS 1311 Design I</td>
</tr>
<tr>
<td>ARTS 1312</td>
<td>Design II (3 dimensional) ARTS 1312 Design II</td>
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<tr>
<td>ARTS 1316</td>
<td>Drawing I ARTS 1316 Drawing I</td>
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<tr>
<td>ARTS 1317</td>
<td>Drawing II ARTS 1317 Drawing II</td>
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<tr>
<td>ARTS 2316</td>
<td>Painting I ARTS 2316 Painting I</td>
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<tr>
<td>ARTS 2323</td>
<td>Life Drawing I ARTS 2323 Drawing III</td>
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<td>ARTS 2326</td>
<td>Sculpture I ARTS 2326 Sculpture I</td>
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<td>ARTS 2333</td>
<td>Printmaking I ARTS 2333 Printmaking I</td>
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<td>ARTS 2346</td>
<td>Ceramics I ARTS 2346 Ceramics I</td>
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<td>ARTS 2356</td>
<td>Photography I (fine arts emphasis) ARTS 2356 Photography I</td>
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<td>Biology for Science Majors I BIOL 1406 Biology I</td>
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<td>Biology for Science Majors II BIOL 1407 Biology II</td>
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<td>BIOL 2401</td>
<td>Anatomy and Physiology I BIOL 2401 Anatomy and Physiology I</td>
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<td>Anatomy and Physiology II BIOL 2402 Anatomy and Physiology II</td>
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<td>BIOL 2416</td>
<td>Genetics BIOL 2416 Genetics</td>
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<td>BIOL 2420</td>
<td>Microbiology for Non-Science Majors BIOL 2420 Principles of Microbiology (for nonmajors of life sciences)</td>
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<td>BIOL 2421</td>
<td>Microbiology for Science Majors BIOL 2421 Microbiology</td>
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<tr>
<td>BCIS 1305</td>
<td>Business Computer Applications Misy 2305 Computer Applications in Business</td>
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<td>BUSI 1301</td>
<td>Business Principles BUSI 1310 Intro. to Business Environment</td>
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<td>BUSI 1307</td>
<td>Personal Finance FINA 1307 Personal Finance</td>
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<td>CHEM 1305</td>
<td>Introductory Chemistry I CHEM 1305 Introductory Chemistry</td>
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<td>CHEM 1111</td>
<td>General Chemistry I (lab) CHEM 1111 General Chemistry Lab I</td>
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<td>CHEM 1112</td>
<td>General Chemistry II (lab) CHEM 1112 General Chemistry Lab II</td>
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<td>General Chemistry II CHEM 1312 General Chemistry II</td>
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<tr>
<td>COMM 1307</td>
<td>Introduction to Mass Communication COMM 1307 Media and Society</td>
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<td>COMM 2366</td>
<td>Introduction to Film COMM 2366 Introduction to Film Art</td>
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<td>COSC 1300</td>
<td>Introduction to Computing COSC 1315 Computer Literacy</td>
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<td>COSC 1436</td>
<td>Programming Fundamentals I COSC 1435 Introduction to Problem Solving with Computers I</td>
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<td>COSC 1437</td>
<td>Programming Fundamentals II COSC 1436 Introduction to Problem Solving with Computers II</td>
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<td>COSC 2415</td>
<td>Data Structures COSC 2437 Data Structures</td>
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<td>CRIJ 1301</td>
<td>Introduction to Criminal Justice CRIJ 1301 Introduction to Criminal Justice</td>
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<tr>
<td>CRIJ 1313</td>
<td>Juvenile Justice System CRIJ 1313 The Juvenile Justice System</td>
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<td>TCCNS Courses</td>
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<tr>
<td>CRIJ 2328  Police Systems and Practices</td>
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<td>DANC 1141  Ballet I</td>
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<td>DANC 1147  Jazz Dance I</td>
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<td>DRAM 1120  Theater Practicum I</td>
<td>THEA 1100  Theatre Production Lab I</td>
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<tr>
<td>DRAM 1121  Theater Practicum II</td>
<td>THEA 1101  Theatre Production Lab II</td>
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<td>DRAM 1310  Introduction to Theatre</td>
<td>THEA 1310  The Art of the Theatre</td>
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<td>DRAM 1341  Makeup</td>
<td>THEA 1341  Stage Makeup</td>
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<td>DRAM 1342  Introduction to Costume</td>
<td>THEA 1371  Costume Construction</td>
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<tr>
<td>DRAM 1351  Acting I</td>
<td>THEA 1351  Acting I</td>
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<td>DRAM 1352  Acting II</td>
<td>THEA 1352  Acting II</td>
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<td>DRAM 2120  Theater Practicum III</td>
<td>THEA 2100  Theatre Production Lab III</td>
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<td>DRAM 2121  Theater Practicum IV</td>
<td>THEA 2101  Theatre Production Lab IV</td>
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<td>DRAM 2366  Development of the Motion Picture</td>
<td>COMM 2366  Introduction to Film Art</td>
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<tr>
<td>ECON 2301  Principles of Macroeconomics</td>
<td>ECON 2301  Macroeconomics Principles</td>
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<td>ECON 2302  Principles of Microeconomics</td>
<td>ECON 2302  Microeconomics Principles</td>
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<td>ENGL 1301  Composition I</td>
<td>ENGL 1301  Composition I</td>
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<td>ENGL 1302  Composition II</td>
<td>ENGL 1302  Composition II</td>
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<td>ENGL 2332  World Literature I</td>
<td>ENGL 2332  Literature of the Western World: From the Classics to the Renaissance</td>
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<tr>
<td>ENGL 2333  World Literature II</td>
<td>ENGL 2333  Literature of the Western World: From the Enlightenment to the Present</td>
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<td>ENGR 1201  Introduction to Engineering</td>
<td>ENGR 1211  Foundations of Engineering I</td>
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<tr>
<td>ENGR 1204  Engineering Graphics I</td>
<td>ENGR 1212  Foundations of Engineering II</td>
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<td>ENGR 1304  Engineering Graphics I</td>
<td>ENTC 1304  Engineering Design Graphics</td>
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<tr>
<td>ENGR 2303  Engineering Mechanics – Statics and Dynamics</td>
<td>ENGR 2321  Statics and Dynamics</td>
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<tr>
<td>ENGR 2332  Mechanics of Materials</td>
<td>ENGR 2322  Materials Science</td>
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<td>ENGT 1401  Circuits I for Engineering Technology</td>
<td>ENTC 2414  Circuit Analysis I</td>
</tr>
<tr>
<td>ENGT 1409  SC/DC Circuits for Engineering Technology</td>
<td>ENTC 2418  Introduction to Electronics</td>
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<td>ENVR 1401  Environmental Science I</td>
<td>ESCI 1401  Environmental Science I: Intro to Environmental Science</td>
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<tr>
<td>ENVR 1402  Environmental Science II</td>
<td>ESCI 1402  Environmental Science II: Systems and Applications</td>
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<td>FREN 1311  Beginning French I</td>
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<td>FREN 2311  French III</td>
</tr>
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<td>FREN 2312  Intermediate French II</td>
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<td>GEOG 1300  Principles of Geography</td>
<td>GEOG 1300  World Geography</td>
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<tr>
<td>GEOL 1403  Physical Geology</td>
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<tr>
<td>TCCNS Courses</td>
<td>A&amp;M-Corpus Christi Course Numbers &amp; Titles</td>
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</tr>
<tr>
<td>GOVT 2305 Federal Government (Federal Constitution &amp; topics)</td>
<td>POLS 2305 U.S. Government and Politics</td>
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<tr>
<td>GOVT 2306 Texas Government (Texas Constitution &amp; topics)</td>
<td>POLS 2306 State and Local Government</td>
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<td>HIST 1301 United States History I</td>
<td>HIST 1301 U.S. History to 1865</td>
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<td>HIST 1302 United States History II</td>
<td>HIST 1302 U.S. History Since 1865</td>
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<td>HIST 2311 Western Civilization I</td>
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<tr>
<td>MATH 1314 College Algebra</td>
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<tr>
<td>MATH 1316 Plane Trigonometry</td>
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<td>MATH 1324 Mathematics for Business &amp; Social Sciences I</td>
<td>MATH 1324 Business Mathematics</td>
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<tr>
<td>MATH 1325 Mathematics for Business &amp; Social Sciences II (business calculus)</td>
<td>MATH 1325 Business Calculus</td>
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<td>MATH 1350 Fundamentals of Mathematics I</td>
<td>SMTE 1350 Fundamentals of Mathematics I or Fundamental Mathematics I</td>
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<td>MATH 1351 Fundamentals of Mathematics II</td>
<td>SMTE 1351 Fundamentals of Mathematics II or Fundamental Mathematics II</td>
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<td>MATH 1442 Elementary Statistical Methods</td>
<td>MATH 1442 Statistics for Life</td>
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<td>MATH 2305 Discrete Mathematics</td>
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<tr>
<td>MATH 2414 Calculus II</td>
<td>MATH 2414 Calculus II</td>
</tr>
<tr>
<td>MUSI 1116 Elementary Sight Singing &amp; Ear Training I</td>
<td>MUSI 1116 Aural Training I</td>
</tr>
<tr>
<td>MUSI 1117 Elementary Sight Singing &amp; Ear Training II</td>
<td>MUSI 1117 Aural Training II</td>
</tr>
<tr>
<td>MUSI 1181 Piano Class I</td>
<td>MUSI 1181 Class Piano I</td>
</tr>
<tr>
<td>MUSI 1182 Piano Class II</td>
<td>MUSI 1182 Class Piano II</td>
</tr>
<tr>
<td>MUSI 1303 Fundamentals of Music (guitar)</td>
<td>MUSI 1303 Basic Guitar I</td>
</tr>
<tr>
<td>MUSI 1306 Music Appreciation</td>
<td>MUSI 1306 Understanding &amp; Enjoying Music</td>
</tr>
<tr>
<td>MUSI 1307 Music Literature (one semester version)</td>
<td>MUSI 1307 Elements of Musical Style</td>
</tr>
<tr>
<td>MUSI 1311 Music Theory I</td>
<td>MUSI 1311 Musicianship I</td>
</tr>
<tr>
<td>MUSI 1312 Music Theory II</td>
<td>MUSI 1312 Musicianship II</td>
</tr>
<tr>
<td>MUSI 2116 Advanced Sight Singing &amp; Ear Training I</td>
<td>MUSI 2116 Aural Training III</td>
</tr>
<tr>
<td>MUSI 2117 Advanced Sight Singing &amp; Ear Training II</td>
<td>MUSI 2117 Aural Training IV</td>
</tr>
<tr>
<td>MUSI 2181 Piano Class III</td>
<td>MUSI 2181 Class Piano III</td>
</tr>
<tr>
<td>MUSI 2182 Piano Class IV</td>
<td>MUSI 2182 Class Piano IV</td>
</tr>
<tr>
<td>MUSI 2311 Music Theory III</td>
<td>MUSI 2311 Musicianship III</td>
</tr>
<tr>
<td>MUSI 2312 Music Theory IV</td>
<td>MUSI 2312 Musicianship IV</td>
</tr>
<tr>
<td>PHED 1151 Scuba Diving I</td>
<td>KINE 1151 Scuba and Snorkeling</td>
</tr>
<tr>
<td>PHED 1206 First Aid</td>
<td>KINE 2215 First Aid and Safety</td>
</tr>
<tr>
<td>PHED 1301 Introduction to Physical Fitness &amp; Sport</td>
<td>KINE 2313 Foundations of Kinesiology</td>
</tr>
<tr>
<td>PHED 2255 Water Safety</td>
<td>KINE 2255 Water Safety Instruction</td>
</tr>
<tr>
<td>PHIL 1301 Introduction to Philosophy</td>
<td>PHIL 1301 Introduction to Philosophy</td>
</tr>
<tr>
<td>PHIL 2303 Introduction to Logic</td>
<td>PHIL 2303 Introduction to Logic and Critical Thinking</td>
</tr>
<tr>
<td>PHYS 1401 College Physics I</td>
<td>PHYS 1401 General Physics I</td>
</tr>
<tr>
<td>PHYS 1402 College Physics II</td>
<td>PHYS 1402 General Physics II</td>
</tr>
<tr>
<td>PHYS 2425 University Physics I</td>
<td>PHYS 2425 University Physics I</td>
</tr>
<tr>
<td>PHYS 2426 University Physics II</td>
<td>PHYS 2426 University Physics II</td>
</tr>
</tbody>
</table>
### TCCNS Courses | A&M-Corpus Christi Course Numbers & Titles
---|---
PSYC 2301 | PSYC 2301 General Psychology
PSYC 2314 | PSYC 2314 Life Span Developmental Psych.
PSYC 2319 or SOCI 2326 | PSYC 2326 Social Psychology
PSYC 2314 or SOCI 2326 | SOCI 1301 Human Societies
PSYC 2319 or SOCI 2326 | SOCI 2326 Social Psychology
SPAN 1311 | SPAN 1311 Spanish I
SPAN 1312 | SPAN 1312 Spanish II
SPAN 2311 | SPAN 2311 Spanish III
SPAN 2312 | SPAN 2312 Spanish IV
SPAN 2313 | SPAN 2313 Spanish for Native Speakers
SPCH 1315 | COMM 1315 Public Speaking
SPCH 1318 | COMM 1318 Interpersonal Communication
SPCH 1342 or THEA 1342 | COMM 1342 Voice and Diction
SPCH 2333 | COMM 2333 Small Group Communication

### LOWER-DIVISION CORE CURRICULUM TRANSFER COURSES

The core curriculum requirements are discussed in the “University Core Curriculum Programs” 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 chapter entitled “Undergraduate Programs” for details.

<table>
<thead>
<tr>
<th>A&amp;M-Corpus Christi Core Courses</th>
<th>Core Transfer Courses (Texas Common Course Numbers and Titles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1301 Composition I</td>
<td>ENGL 1301 Composition I</td>
</tr>
<tr>
<td>ENGL 1302 Composition II</td>
<td>ENGL 1302 Composition II</td>
</tr>
<tr>
<td>HIST 1301 U.S. History to 1865</td>
<td>HIST 1301 United States History I</td>
</tr>
<tr>
<td>HIST 1302 U.S. History Since 1865</td>
<td>HIST 1302 United States History II</td>
</tr>
<tr>
<td>(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&amp;M-CC. However, taking both 1301 and 1302 rather than making the Texas History substitution is strongly recommended.)</td>
<td></td>
</tr>
<tr>
<td>POLS 2305 U.S. Government and Politics</td>
<td>GOVT 2305 Amer. Govt. I (Federal)</td>
</tr>
<tr>
<td>POLS 2306 State and Local Government</td>
<td>GOVT 2306 Amer. Govt. II (State)</td>
</tr>
<tr>
<td>or both of the following to fulfill the two-course requirement: A) GOVT 2301 Amer. Govt. I (Combined Fed. &amp; State/inc. Const.)* and B) GOVT 2302 Amer. Govt. II (Combined Fed. &amp; State)*</td>
<td></td>
</tr>
</tbody>
</table>
*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 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.

A&M-Corpus Christi
Core Courses

<table>
<thead>
<tr>
<th>Natural Science</th>
<th>Core Transfer Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two from:</td>
<td>(Texas Common Course Numbers and Titles)</td>
</tr>
<tr>
<td>ASTR 1311 Introduction to Space Sciences</td>
<td>ASTR 1303 or PHYS 1303 Stars and Galaxies</td>
</tr>
<tr>
<td>BIOL 1406 Biology I</td>
<td>BIOL 1406 General Biology I</td>
</tr>
<tr>
<td>BIOL 1407 Biology II</td>
<td>BIOL 1407 General Biology II</td>
</tr>
<tr>
<td>CHEM 1311 General Chemistry I</td>
<td>CHEM 1311 General Chemistry I</td>
</tr>
<tr>
<td>CHEM 1312 General Chemistry II</td>
<td>CHEM 1312 General Chemistry II</td>
</tr>
<tr>
<td>ESCI 1401 Environmental Science I: Introduction to Environmental Science</td>
<td>ENVR 1401 Environmental Science I</td>
</tr>
<tr>
<td>ESCI 1402 Environmental Science II: Systems and Applications</td>
<td>ENVR 1402 Environmental Science II</td>
</tr>
<tr>
<td>GEOL 1403 Physical Geology</td>
<td>GEOL 1403 Physical Geology</td>
</tr>
<tr>
<td>GEOL 1404 Historical Geology</td>
<td>GEOL 1404 Historical Geology</td>
</tr>
<tr>
<td>PHYS 1401 General Physics I</td>
<td>PHYS 1401 College Physics I</td>
</tr>
<tr>
<td>PHYS 1402 General Physics II</td>
<td>PHYS 1402 College Physics II</td>
</tr>
<tr>
<td>PHYS 2425 University Physics I</td>
<td>PHYS 2425 University Physics I</td>
</tr>
<tr>
<td>PHYS 2426 University Physics II</td>
<td>PHYS 2426 University Physics II</td>
</tr>
</tbody>
</table>

** Provided that the ASTR/PHYS course was part of the general education requirement at the transferring institution.

Mathematics
Select one from:

<table>
<thead>
<tr>
<th>Select from:</th>
<th>Core Transfer Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1314 College Algebra</td>
<td>MATH 1314 College Algebra</td>
</tr>
<tr>
<td>MATH 1324 Business Mathematics</td>
<td>MATH 1324 Mathematics for Business &amp; Social Sciences I (finite mathematics)</td>
</tr>
<tr>
<td>MATH 1325 Business Calculus</td>
<td>MATH 1325 Mathematics for Business &amp; Social Sciences II (business calculus)</td>
</tr>
<tr>
<td>MATH 1442 Statistics for Life</td>
<td>MATH 1342 Elementary Statistical Methods*** or MATH 1442 Elementary Statistical Methods or</td>
</tr>
<tr>
<td>MATH 2413 Calculus I</td>
<td>MATH 2413 Calculus I (MATH 2313 Calculus I is also acceptable)</td>
</tr>
</tbody>
</table>

***MATH 1342 will only be accepted for core curriculum credit if it is in the core curriculum of the transferring institution.

Oral Communication

| COMM 1315 Public Speaking | SPCH 1315 Public Speaking |
## A&M-Corpus Christi Core Transfer Courses

### Core Courses (Texas Common Course Numbers and Titles)

#### Economics
Select one from:

- **ECON 2301** Macroeconomic Principles
- **ECON 2302** Macroeconomic Principles

- **ECON 2301** Principles of Macroeconomics
- **ECON 2302** Principles of Macroeconomics

#### Social Science
Select one from:

- **PSYC 2301** General Psychology
- **SOCI 1301** Human Societies

- **PSYC 2301** General Psychology
- **SOCI 1301** Introductory Sociology

#### Literature
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 Present
- **ENGL 2334** Themes and Genres in English Literature
- **ENGL 2335** Themes and Genres in the Literatures of the Americas

- **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
- **COMM 1305** Film and Culture
- **MUSI 1306** Understanding and Enjoying Music
- **MUSI 1307** Elements of Musical Style
- **THEA 1310** The Art of the Theatre

- **ARTS 1301** Art Appreciation
- **COMM 2366** Introduction to Film or Development of the Motion Picture I
- **MUSI 1306** Music Appreciation
- **MUSI 1307** Music Literature or Music Literature I or Music Literature II
- **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 transfer counselor at (361) 825-2257 or 2258.
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 Abuse Prevention Plan

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 Ch. 37’s prohibition on hazing to institutions of higher education. This summary of Chapter 37 is provided as required by § 51.936(d).

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.

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.
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.

   2.1 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.

   2.2 Drivers must possess a valid driver’s license that is appropriate for the classification of vehicle being driven.

   2.3 Drivers, occupants, and their luggage should not exceed the vehicle manufacturer’s recommended capacity.

   2.4 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:

   3.1 Rental Vehicles: Students traveling using a rental vehicle must comply and abide with all University and rental provider rules, regulations, and stipulations.

   3.2 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.

   3.3 Personal Vehicles: The driver must have adequate motor vehicle insurance and the vehicle must meet all state safety and registration requirements.

   3.4 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.
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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.