Catalog Home

Texas A&M University-Corpus Christi

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6300 Ocean Drive
Corpus Christi, Texas 78412
Telephone: (361) 825-5700

Accreditation

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

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

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

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

Texas A&M University-Corpus Christi is an accredited institutional member of the National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190-5248.
The clinical laboratory science program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Rd. Suite 720, Rosemont, IL 60018-5119 – telephone: 773-714-8880.

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

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

The 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.

**Message from the President**

As President and CEO of Texas A&M University-Corpus Christi, I want prospective and current graduate students to know how enthusiastic I am about our excellent graduate programs. We have over 1,750 students seeking advanced degrees in education, business, arts, humanities, sciences, nursing and health sciences. Our many fine offerings at the master’s degree level are augmented by doctoral programs in diverse areas, from marine biology and coastal and marine system science to educational leadership, curriculum and instruction, and counselor education.

A&M-Corpus Christi has experienced tremendous growth over the past decade in enrollment and program offerings. I am committed to continuing, indeed, accelerating that growth. I am also committed to promoting access to higher education for all students because the future of our community, region and beyond depends on the education of its citizens.
With the diversity of graduate programs we offer, I am confident you will find a field of study that suits your interests and goals for your future. Each student brings special talents and each contributes to the overall academic success of this dynamic university. My hope is that you will bring your own special talents and be part of the success story of A&M-Corpus Christi.

Good luck in your educational endeavors and may you achieve your dreams at A&M-Corpus Christi.

Flavius C. Killebrew
President/CEO

Graduate Degrees

Nature and Purpose of Graduate Study

Graduate work consists of advanced study in focused or specialized programs. There are generally two components of graduate study: coursework and independent study, the latter often leading to a report, thesis, dissertation, or creative presentation. In some areas, internships, field studies, and other professional experiences may also be an integral part of the program. The proportion of each type of study varies according to the previous training of the student and the nature of the major area.

The objective of graduate study is to develop intellectual depth and to provide the specialized training necessary to a career in teaching, in research, or in the professions. Emphasis is placed on the knowledge, methods, and skills needed for scholarly teaching, original research and problem solving, intellectual leadership, creative expression, and other modes of achievement in the student's discipline.

Graduate Degrees Granted

Texas A&M University-Corpus Christi offers course work leading to the following graduate degrees:

Master's Degrees

Accounting MAcc
Art (Studio Art) MA
<table>
<thead>
<tr>
<th>Field</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>MS</td>
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<tr>
<td>Business Administration</td>
<td>MBA</td>
</tr>
<tr>
<td>Coastal and Marine System Science</td>
<td>MS</td>
</tr>
<tr>
<td>Communication</td>
<td>MA</td>
</tr>
<tr>
<td>Computer Science</td>
<td>MS</td>
</tr>
<tr>
<td>Counseling</td>
<td>MS</td>
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<tr>
<td>Curriculum and Instruction</td>
<td>MS</td>
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<tr>
<td>Early Childhood Education</td>
<td>MS</td>
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<tr>
<td>Educational Administration</td>
<td>MS</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>MS</td>
</tr>
<tr>
<td>English</td>
<td>MA</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>MS</td>
</tr>
<tr>
<td>Fisheries &amp; Mariculture</td>
<td>MS</td>
</tr>
<tr>
<td>Geospatial Surveying Engineering</td>
<td>MS</td>
</tr>
<tr>
<td>History</td>
<td>MA</td>
</tr>
<tr>
<td>Instructional Design and Educational Tech</td>
<td>MS</td>
</tr>
<tr>
<td>Kinesiology</td>
<td>MS</td>
</tr>
<tr>
<td>Marine Biology</td>
<td>MS</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MS</td>
</tr>
<tr>
<td>Nursing</td>
<td>MSN</td>
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<tr>
<td>Psychology</td>
<td>MA</td>
</tr>
<tr>
<td>Public Administration</td>
<td>MPA</td>
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<tr>
<td>Reading</td>
<td>MS</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>MS</td>
</tr>
</tbody>
</table>
**Special Education**  
*MS*

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**Doctoral Degrees and Other Terminal Degrees**

Coastal and Marine System Science  
PhD

Counselor Education  
PhD

Curriculum and Instruction  
PhD

Educational Leadership  
EdD

Geospatial Computing Sciences  
PhD

Marine Biology  
PhD

Nursing Practice  
DNP

Studio Art  
MFA

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**Graduate and Postbaccalaureate Certificates**

Alternative Certification of Educators

Bilingual Counselor

Clinical Laboratory Science

Educational Diagnostician

Emergency Management

English as a Second Language

Family Nurse Practitioner Post-Masters

Gifted and Talented

Health Care Administration

Homeland Security

Geomatics

Geographic Information Systems
Leadership in Nursing Systems Post-Masters
Nurse Educator Post-Masters
Principal
Professional Advantage
Professorial Advantage
Reading Specialist
School Counselor
Superintendent

**Academic Calendar**

Click here to view the 2016-2017 calendar.

**General Information**

**Directory of Campus Offices and Services**

**College of Graduate Studies**

Graduate Admission, Graduate Staff, Graduate Dean
Faculty Center Room 178 (361) 825-2177
email: gradweb@tamucc.edu

**Financial Assistance**

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

**Student Services**
Office of Student Engagement and Success
University Center (UC) 318 (361) 825-2612

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

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

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

Disability Services
Corpus Christi Hall 116 (361) 825-5816

Office of International Education
University Center 226 (361) 825-3922

Recreational Sports
Dugan Wellness Center (361) 825-2454

University Center and Student Activities (361) 825-5200
University Center (UC) 216 (361) 825-2707

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

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

Transcripts; Class Schedules
Office of Admissions and Records
Student Services Center (SSC) 100 (361) 825-2624

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

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

Tutoring
Center for Academic Student Achievement
Glasscock Student Success Center   (361) 825-5933

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

University Services
The University

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

Institutional Vision and Mission

Vision

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

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

Institutional History

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

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

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

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

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

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

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

**Campus Facilities**

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

**Mary and Jeff Bell Library**

The Mary and Jeff Bell Library is the University's major resource for research and study. The Library houses a collection of approximately 578,000 books, bound periodicals, microforms, and government publications, and maintains subscriptions to over 2,800 serials and research sets in paper and microform formats. In addition, the Library provides electronic access to over 200,000 additional title through approximately 250 database subscriptions. Strong media collections and significant collections of South Texas books and archival materials provide unique resources for scholars.

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

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

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

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

**Computing Resources**

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

**Student Services Center**

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

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

Visual and Performing Arts Facilities

The Performing Arts Center features a 1500-seat concert hall where local, national, and international artists perform. The Center for the Arts houses the Warren Theatre (a 275 seat, continental-style auditorium), the Wilson Studio Theatre (an experimental theatre), and the Weil Gallery. Also affiliated with the University is the Art Museum of South Texas, located in downtown Corpus Christi.

University Center

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

Conrad Blucher Institute for Surveying and Science

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

Carlos F. Truan Natural Resources Center

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

Dugan Wellness Center

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

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

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

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

**Admissions**

Students may apply for admission to graduate study under one of the following classifications:

1. Degree Seeking
   1. Regular Status
   2. Conditional Status
2. Graduate Certificate Seeking
3. Transient
4. Non-Degree Seeking

See "Graduate Student Admission Classifications" below for an explanation of these classifications.

**NOTE:** 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 are exempt from graduate admission requirements and may enroll in undergraduate-level courses (numbered below 5000) only. For information on postbaccalaureate admission requirements, see the "Admission" section of the Undergraduate Catalog.

**Minimum Required Documents**
Students seeking admission to the University for graduate study must forward all relevant application materials to:

College of Graduate Studies
Texas A&M University-Corpus Christi
6300 Ocean Drive Unit 5843
Corpus Christi, TX 78412-5843 Telephone: (361) 825-2177

The following documents are required as part of the application process:

1. A completed application for admission. (The application may be obtained from the College of Graduate Studies or online through the following web site: http://gradschool.tamucc.edu.) The completed application must include the applicant’s essay, a statement of educational and professional goals.

2. A $50, nonrefundable, application fee. (For international applicants, the nonrefundable application fee is $70, paid in U.S. currency.)

3. Official transcripts documenting all undergraduate and graduate course work taken at any accredited college or university attended. Official transcripts must be sent directly to Texas A&M University-Corpus Christi from the granting institutions.

4. Additional materials as required by the degree program to which the student is applying. Consult the section of the catalog pertaining to the specific degree program for a listing of additional requirements. Specific programs may require letters of recommendation, writing samples, portfolios, official test scores for the Graduate Record Examination (GRE) or the Graduate Management Admission Test (GMAT), or other materials. If GRE or GMAT scores are required, they generally must be from a test date within five years of the date on which the application form was received at the College of Graduate Studies. This recency requirement may be waived, e.g., if GRE records are on file from an earlier application, with the approval of the Graduate Dean.

Additional Documents for International Students

In addition to the documents listed above, international students must also submit the following as part of their applications:

1. Official test scores (see below for minimum scores) on the Test of English as a Foreign Language (TOEFL) or International English Language Testing System
(IELTS), unless the student has earned a baccalaureate degree from an accredited institution of higher education in the United States, from an institution in another English-only speaking country, successfully completed two years of instruction (taught in the English Language) at a U.S or Canadian College, or has successfully completed the English as a Second Language International (ESLI) Program.

**TOEFL:** A minimum paper-based score of 550, the equivalent computer-based score of 213, or the equivalent internet-based score of 79-80, is required. The institution code for Texas A&M University – Corpus Christi is 6849.

**IELTS:** A minimum score is an overall band score of 6.5 on the Academic Examination. IELTS General Training results are not acceptable. There is no institution code for the IELTS examination.

Applicants from the following countries will be exempt from the TOEFL or IELTS requirements:

- Antigua and Barbuda
- Australia
- Bahamas
- Barbados
- Belize
- Botswana*
- Canada (all provinces except Quebec)
- Fiji*
- The Gambia*
- Ghana*
- Grenada
- Guyana
- Ireland
- Jamaica
- Kiribati
- Liberia
- Malta*
Marshall Islands
Mauritania
Mauritius
Micronesia
New Zealand
Nigeria
Saint Kitts and Nevis
Saint Lucia
Saint Vincent and the Grenadines
Sierra Leone *
Solomon Islands
Trinidad and Tabago
Uganda
United Kingdom
Zambia*
Zimbabwe*
*countries with asterisks are subject to review
Test takers should provide the following address to have their official score sent to Texas A&M University – Corpus Christi:

College of Graduate Studies
Texas A&M University – Corpus Christi
6300 Ocean Dr., Unit 5843
Corpus Christi, TX 78412-5843

2. Notarized Affidavit of Support (or I-34 form) certifying ability to finance study in the U.S. The Affidavit of Support must be completed with U.S. currency figures only.
3. Copy of current visa. (For international applicants residing in the U. S.)
4. Official transcripts and diplomas from international colleges and universities with either an original signature of a school official or an original school seal. If these are not provided in English by the institutions, official translations must be provided.

5. All official foreign transcripts are evaluated by the College of Graduate Studies and, in some cases, may require an external evaluation.

In addition, all international students are required to be covered by The Texas A&M University System's Student Health Insurance Plan or to have equivalent insurance coverage. Students without insurance will not be permitted to register for classes. For information, contact the Coordinator, International Student Admissions in the Office of International Education.

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.

**University Graduate Admission Criteria**

The following guidelines apply to degree seeking and certificate seeking applicants to graduate study.

To be admitted to graduate studies, an applicant must hold a bachelor's degree from an accredited institution of higher education in the United States (or an equivalent foreign institution).* The applicant must show promise of success in graduate studies. Decisions regarding admission to graduate study will be based on a review of all application materials. Factors that may be considered include the student's grade point average (GPA), the relevancy of previous course work, the applicant's demonstrated commitment to the field of study, and other criteria identified by the degree program. The overall strength of the record will be used to accept or deny an individual.

* The requirement to hold a bachelor's degree does not apply to students enrolled in the RN-MSN option in Nursing.

In order to be considered for a graduate program, a minimum last 60 hour GPA of 2.5 is required. Some programs may have higher GPA requirements; see catalog section for specific program information. The GPA calculation is normally based on the last 60 semester credit hours (or equivalent) of undergraduate work and any previous work in a graduate or professional school. The GPA is calculated for the most recent 60 semester
hours completed at the time of application. Grades for the entire semester within which the 60th hour appears on the transcript will also be included in the calculation, even if the hours total more than 60. Some programs may also consider the overall undergraduate GPA. For more information, see the catalog section for the specific program.

Students may not be admitted to more than one graduate program unless they are near completion of the initial graduate degree. Such admission will require the approval of the Graduate Dean.

**Right to an Academic Fresh Start Legislation**

The "Right to an Academic Fresh Start" legislation (Section 51.931 of the Texas Education Code) 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. If an individual has earned a baccalaureate degree under the "academic fresh start" law and applies for admission to a postgraduate or professional program, the University, in evaluating the applicant for admission to a graduate program, will consider only the applicant's grade point average established by the course work completed under this law, along with other standard admissions criteria discussed in this catalog.

(For information on the Right to an Academic Fresh Start, as it applies to undergraduates, see the "Admission" section of the Undergraduate Catalog or contact the Office of Admissions.)

**Degree Program Admission Criteria**

In addition to the University requirements described above, individual graduate degree programs may have higher or alternate requirements. See the graduate program section of the catalog for descriptions of the specific entrance requirements. Admission decisions to the various graduate programs are made by the college offering the program.

**Graduate Student Admission Classifications**

Graduate students are admitted in one of the following graduate classifications:

1. **Degree Seeking.**
   1. **Regular Status** (admitted without conditions)
      
      This classification includes students who have met all University and degree-specific admission requirements and have been unconditionally admitted to a graduate degree program by the program offering the degree.
2. **Conditional Status**

   This classification includes students who have been admitted into a particular degree program but only conditionally since they have not yet met all admission requirements. Reasons for conditional status may include:
   
   1. application not complete.
   2. preparatory or foundational coursework not yet taken.
   3. other program criteria not yet satisfied.

   A student on conditional status normally can take no more than nine graduate hours in the program. The time that the student has to complete unmet admissions requirements is set by individual programs not to exceed 2 continuous long semesters. The student on conditional status will be notified of the specific conditions by the graduate program advisor at the time of admission.

2. **Graduate Certificate Seeking.** A certificate student may enroll in certain graduate courses that lead to licensing or certification. Students admitted under this classification may register for only those graduate courses specified by the certificate program or licensing body. A minimum of 9 credit hours at the graduate level is required for a graduate certificate.

3. **Transient.** A student who provides proof of enrollment in good standing in a graduate degree program at another university may enroll at Texas A&M University-Corpus Christi for graduate course work to be transferred to the student's home university. The student is not required to submit GRE or GMAT scores. (International students cannot be admitted in Transient status.) Permission from the appropriate college is required.

4. **Non-Degree Seeking.** Non-degree status is designed for the student who wants to enroll in graduate course work to meet personal or career goals that do not lead to a graduate degree or certification. The applicant must hold a bachelor's degree from an accredited institution (or equivalent degree from another country). The applicant is not required to submit GRE scores. Some individual graduate degree programs do not have a non-degree seeking admission classification. Consult the section of the catalog pertaining to the specific degree program for additional information.

   A student may petition to apply credits earned while in non-degree status, certificate seeking status, or previous master's seeking status toward a graduate degree if the student applies to and is admitted to a graduate degree program at some later date and subsequent to meeting all of the usual admissions requirements, (see program-specific admissions requirements.) However, no more than twelve semester hours of courses taken in non-degree seeking, certificate seeking, or previous master's seeking status may be applied to any master's degree and no more than one-fourth of the credit hours
required may be applied to any doctoral degree. (International students cannot be admitted in Non-degree status.)

**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.

**Immunizations**

**Recommended Vaccinations**

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

**TAMU-CC Tuberculosis Policy Requirements**

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

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

**Bacterial Meningitis Vaccination Policy**

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

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

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

**Important Facts about Bacterial Meningitis**

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

**Valid Proof of Vaccination**

1. A complete Evidence of Vaccination against Bacterial Meningitis Form. Use this form if you plan to obtain your vaccination somewhere other than your personal physician's office.
2. A document bearing the signature or stamp of the physician or his/her designee, or public health personnel (must include the month, day, and year the vaccination was administered).

3. An official immunization record generated from a state or local health authority (must include the month, day, and year the vaccination was administered).

4. An official record received from school officials, including a record from another state (must include the month, day, and year the vaccination was administered).

**Valid Proof of Vaccination Exemption**

1. An affidavit or a certificate signed by a physician who is duly registered and licensed to practice medicine in the United States, in which it is stated that, in the physician's opinion, the vaccination required would be injurious to the health and well-being of the student.

2. **Conscientious Objection Form:** An affidavit signed by the student stating that the student declines the vaccination for bacterial meningitis for reasons of conscience, including a religious belief. A conscientious exemption form from the Texas Department of State Health Services (TDSHS) must be used and can be downloaded from the following link: TEXAS DEPARTMENT OF STATE HEALTH SERVICES FORM. Please complete the instructions provided on the conscience exemption form. **Please allow several weeks for delivery.**

**Other Vaccination Exemptions**

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

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

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

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

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

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

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

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

  Phone: 361.825.2624 or 1.800.4.TAMUCC

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

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

General Academic Policies and Regulations

Student Responsibility
University personnel may assist students in progressing toward the degree that they are seeking. However, the final and ultimate responsibility for understanding and following the degree requirements rests with the students themselves. Each student is held responsible for knowing degree requirements, for enrolling in courses that fit into degree programs, and for taking courses in the proper sequence to ensure orderly progression of work. The student must seek advice about degree requirements and other University policies when necessary. The student is held responsible for knowing and abiding by University regulations regarding the standard of work required to continue in the University, as well as those dealing with academic integrity, scholastic probation, enforced withdrawal, 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.

Registration

Students admitted to the University may register for course work. See the admission classification system in the "Admission" chapter of the catalog for limits. Former graduate students who have been inactive for two years or more must reapply for admission to the College of Graduate Studies prior to the term of re-enrollment. Note that some programs may require re-application after only a one-year leave of absence. Doctoral students must remain continuously enrolled. See the Continuous Enrollment and Leave of Absence policy for more information. Specific information regarding dates, registration materials and course offerings may be found in the class schedule for each term (published during the preceding term). 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."

Non-Credit Admission (Auditing)

A student may attend classes for a course without receiving credit if he or she completes an application for admission, submits a course audit form at the time of registration, and has the permission of both the instructor of the course and the dean of the college in which the course is offered. The fee is the same as that required for registration for credit, but no credit will be awarded, no records will be kept and the student may be restricted from lab work and tests. A student will not be given permission to audit a course until the first day of classes. Students may not change from credit to audit status after the 12th class day during a long semester or after the 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.

**Unit of Credit**

One 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 or 15 class hours per semester.

**Transfer Credit Equivalencies**

For purposes of transfer, and for calculation of the grade point average of an applicant for graduate admission, 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 has established 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>

This University will use the summation of the individual course equivalencies from the transferring institution to compute grade point average for admission purposes and/or credits earned. For credit systems other than those listed above, the College of Graduate Studies will determine an *ad hoc* mathematical relationship and apply it to the record in question.

**Enrollment Status**

Enrollment status for graduate students is defined below.

<table>
<thead>
<tr>
<th>Enrollment Status</th>
<th>Semester Credit Graduate Level</th>
<th>Hours Required</th>
</tr>
</thead>
</table>
Full-time graduate student: Fall or spring term = 9 hours
Combined summer terms = 6 hours

Three-quarter-time graduate student: Fall or spring term = 7 hours
Combined summer terms = 5 hours

Half-time graduate student: Fall or spring term = 5 hours
Combined summer terms = 3 hours

For information on enrollment status requirements for graduate students receiving financial assistance administered through the Office of Student Financial Assistance, see the "Financial Assistance" section of the catalog. For rules applying to veterans benefits, see "Veterans Educational Benefits.")

Exceptions to Full Time Enrollment Minimums

Students may be certified as full time with fewer than the required hours under the following circumstances:

1. Enrollment in thesis or dissertation preparation course:

2. Participation in an authorized cooperative education (co-op) experience;

3. Participation in an approved internship/practicum/clinical that is equivalent to a full time course load;

4. Enrollment in student teaching course sections;

5. Presence of a documented disability that mandates a reduced course load; and

6. Enrollment in required Language Institute hours that, in combination with the student's regular TAMUCC hours, constitute a full time course load.

NOTE: These exceptions may not apply to a student's eligibility for certain types of financial aid. Enrollment reporting for student loan repayment purposes will be reported as actual hours enrolled. Cooperative education students are reported at full time for student loan repayment purposes. For information on enrollment status requirements for
graduate students receiving financial assistance administered through the Office of Student Financial Assistance, see the "Financial Assistance" section of the catalog. For rules applying to veterans benefits, see "Veterans Educational Benefits.")

In most cases, international students are eligible for the same exceptions to full time requirements; however, all international students requesting an exception to full time requirements must have their request approved in the Office of International Student Services. Students who are not U.S. Citizens, but who are permanent U.S. residents (VISA Type = IM) are not required to clear with ISS on enrollment exceptions.

**Course Numbers**

Each course number includes a four-letter 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 final digits are sequence numbers. A list of course prefixes may be found in Appendix B.

Courses numbered in the 1000 and 2000 series are lower-division (freshman or sophomore) courses.

Courses numbered in the 3000 and 4000 series are upper-division (junior or senior) courses. Some courses in the 4000 series are designated for graduate credit. 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. Courses at the 6000 level are open only to students admitted to a doctoral program or graduate students who meet specific criteria.

**Courses of Instruction**

The catalog lists the courses offered in each field of study. 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**

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.

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.

Students should be aware that dropping courses may affect their eligibility for financial assistance.

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

**Withdrawal From the University**

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

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

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

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

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

**Withdrawal of Students Called to Active Duty**

Section 54.006 of the Texas Education Code states:

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

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

**Retroactive Withdrawal**

A student may request that all grades in an academic period be retroactively removed and replaced by entries of "W" on his or her transcript. A retroactive withdrawal may be granted only when a student has experienced circumstances of such serious and compelling nature that he or she 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 University Registrar (Assistant Registrar). 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 University Registrar within 14 days of the date of notification. The decision of the University Registrar is final.

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 any doubt exists as to whether the activity in question is considered official University business, 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

The letter grades used for graduate work are the same as those used in undergraduate work (A, B, C, D, and F), but graduate credit is allowed only for courses completed with grades of A, B, and C, although grades of D and F are used in computing grade point averages. Limits are placed on the number of C's that are allowed for graduate credit. Grade points per semester hour are noted below:

<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>

Other grades for courses are reported by the symbols below:

- **CR***: Satisfactory, but without qualitative grading. See "Credit/No Credit Grading."
- **NC***: No credit
  - Pass. Satisfactory, but without qualitative grading of the credit hours earned.
- **P***: Applicable only to those undergraduate courses stipulated by the Pass/No Pass policy in the Undergraduate Catalog. See Credit/No Credit section for additional information related to Graduate Programs.
- **NP***: No pass. No credit is generated and the mark is not punitive. Applicable only to those undergraduate courses stipulated by the Pass/No Pass policy in the
Undergraduate Catalog. See Credit/No Credit section for additional information related to Graduate Programs.

S* Satisfactory. Applicable to specified graduate courses.

U* Unsatisfactory. Applicable to specified graduate courses.

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.

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.

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.

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."

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.

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, 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 (XX) will be placed on the student's records. In such cases, the course grade must be submitted within 30 days from the beginning of the next semester. If the instructor does not or is unable to submit the grade within 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).

A minimum grade point average of 3.0 is required in all graduate work taken and in the program of study at the University. Specific academic Programs may require a higher grade point average. 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 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 University Registrar on or before the last day of the next regular semester following the term in which the grade was originally issued, and on the form provided for that purpose.

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

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

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

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

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

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

Removing Grade of Incomplete-Military (IM)

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

Credit/No Credit Grading

Certain courses proposed by individual colleges and approved by the Graduate Council and 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. No more than 7 semester hours of CR/NC in a student's major field of study may be applied toward a master's degree. However, students in the College of Liberal Arts may take 3 semester hours graded CR/NC in addition to a maximum of 6 thesis credit hours of CR/NC. No more than 9 semester hours of CR/NC in a student's major field of study may be applied toward a doctoral degree.
The hours graded CR (credit), given in those instances where standard letter grades are not used, will not be applied in computing grade point averages. Credit/no credit grading differs from pass/no pass, a grading option for undergraduates. Since fall 2002, pass/no pass grading has not been used in graduate courses. Consequently, courses graded as pass/no pass will not be allowed to transfer to a graduate program at this University.

**Directed Independent Study (DIS)**

Each area of the College offers courses in directed independent study. These courses appear with a 5X96 number ("X" ranges from 1-6 semester credit hours) in the course offerings of each discipline and may carry variable credit depending upon the course design. The number of credit hours must be approved by the instructor, the Department Chairperson/Director, and the Dean in advance of registration. These courses may be repeated to total no more than six semester credit hours.

**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.

Application for Graduation

Students intending to have a degree conferred must notify the appropriate dean's office
and their academic advisor. All transferred work needed for undergraduate degree
conferment must be received by the Office of the University Registrar within the
graduating term. 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, by academic
dishonesty, or by violation of program performance standards as determined by external
accrediting agencies. Students are expected to obey federal, state, and local laws as well
as the regulations of the University.

Should it become necessary to initiate disciplinary proceedings against a student
attending this University guidelines established for the grade appeal process will be
followed (see Grade Appeal Process for more information). The University recognizes and accepts the basic contents and guidelines included in the 1967 Joint Statement of Rights and Freedoms for Students adopted by many recognized professional educational associations.

**Academic Honesty**

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

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

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

1. Written reprimand;
2. Requirement to re-do work in question;
3. Requirement to submit additional work;
4. Lowering of grade on work in question;
5. Assigning grade of "F" or "0" to work in question;
6. Assigning grade of "F" for course;
7. Recommendation for more severe punishment, such as dismissal from the program or from the University.

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

If the faculty member recommends more severe punishment, such as dismissal from the program or from the University, the faculty member will notify the appropriate 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 degrees have satisfied all college degree requirements. Degree plans for graduate students should be developed by the time students have completed half of the course work in the program, and copies should be forwarded to the College of Graduate Studies.

The University Registrar, the college deans, and the Graduate Dean have specific responsibilities in certifying that University minimum requirements have been satisfactorily completed. The Graduate Dean will complete the degree audit for graduate students and report the outcome to the University Registrar.

**Challenge to an Academic Record**

A student who wishes to challenge the accuracy of the academic record (official transcript) established at Texas A&M University-Corpus Christi and held in his or her behalf, must notify 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 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, College of Graduate Studies, 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 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.

**Graduate Academic and Degree Requirements**

**General Requirements**

The following general academic requirements apply to all graduate programs. Requirements that apply specifically to the master's degree or to the doctoral degree are discussed later in this chapter. More detailed information about the requirements for individual degree programs may be found in the sections pertaining to those programs.

**Graduation Under a Particular Catalog**

A graduate student may receive a degree upon satisfying the requirements of the catalog under which the student enrolled in the program, provided the catalog is no more than seven years old when the degree is conferred and the University still offers programs and required curriculum described in that catalog. A student may petition to graduate under a subsequent catalog under which credit was earned because of a preference to meet newer degree requirements.
Certification or licensure requirements are subject to change. Students enrolled in programs leading to certification or licensure must meet all current certification and licensure requirements, regardless of the catalog chosen.

**Transfer of Credit**

Coursework completed before the student applies for admission at Texas A&M University - Corpus Christi, or completed at another institution after admission to Texas A&M University - Corpus Christi is considered transfer of credit. Course work transferred or accepted for credit toward a graduate degree must represent graduate 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 Texas A&M University-Corpus Christi's own graduate degree programs. The following rules apply to all graduate transfer courses.

- Transferred graduate credit must have been earned at an regionally accredited institution.
- The student must have earned a grade of B or better in the transfer course work. Courses lacking letter grades (e.g., courses graded pass/no pass, credit/no credit, or satisfactory/unsatisfactory) will not be accepted as transfer credit.
- The course work must be less than 7 years old for Master's degrees and 10 years old for Doctoral degrees at the time the Texas A&M University- Corpus Christi degree is awarded.
- Credit from a degree earned at another institution will not be applied to a graduate degree at Texas A&M University-Corpus Christi.

Additional limitations on transfer of credit are discussed in "Requirements for Master's Degrees" and "Requirements for Doctoral Programs."

All transferred work (with accompanying grades or marks) will be translated into Texas A&M University-Corpus Christi terms. If an equivalency has not already been established, the College of Graduate Studies will consult with the appropriate graduate program that represents the course content to determine the course equivalency and transferability. Should the Graduate Dean 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.

**Correspondence and Extension Credit**
Extension, correspondence study credit, continuing education unit (CEU), and similar professional credits will not be applied toward graduate degrees.

**Academic Advisement**

Graduate faculty advisors/mentors or advisory committees are assigned within individual graduate programs in each college. Faculty Advisors/Mentors are available to exchange ideas about courses of value as related to career plans, act as liaisons with other faculty members, refer students to other departments on campus as needed, and provide input if students experience difficulty with their studies, as well as address questions regarding their degree plans. Specific questions related to degree requirements may also be handled by the academic advisors/mentors or the graduate program coordinator or equivalent in the respective college.

**Graduate Courses**

Graduate courses are numbered 5000 or higher. Courses at the 5000 level are open only to students with graduate standing and senior undergraduate students who meet specific criteria. Courses at the 6000 level and higher are limited to students admitted to a doctoral program, or students who have permission from the program coordinator or course instructor. Please consult the specific program for additional details or requirements.

**Graduate Credit for Undergraduate Courses**

Certain 4000-level undergraduate courses under the Colleges of Liberal Arts and the College of Education may be designated for graduate credit. The catalog descriptions of such courses generally include the phrase “May be taken for graduate credit.” Students taking these courses for graduate credit will be required to complete extra course assignments. If a graduate student registers for a 4000-level course, the student will be assumed to be taking the course for undergraduate credit unless he or she receives permission from the course instructor and academic advisor to take the course for graduate credit. Permission must be granted and the request processed through the College of Graduate Studies at the time of registration, but no later than the 12th class day during a fall or spring semester or the 4th class day during a summer session.

A graduate-level designation for a 4000-level course does not automatically indicate approval for the course to be included in a graduate degree plan. Each course in a degree plan must be approved in advance by the student's graduate advisor or committee.
Graduate Study by Undergraduates

1. Reservation of Work for Graduate Credit
   A senior student in the last session 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-unless enrolled in a 3+2 program.

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-unless enrolled in a 3+2 program.

Graduate credit hours used to meet the requirements of a baccalaureate degree may not be used to meet the requirements for a graduate degree-unless enrolled in a 3+2 program.

Maximum Course Load

A graduate student may not register for more than 12 hours in a regular semester without the approval of the appropriate college dean.

A student may not register for more than 6 hours of course work in a single session of summer school without the approval of the dean of the college in which the student is majoring. A student may not register for more than a total of 12 hours of course work in the combined summer sessions (not counting Maymester) without the approval of the college dean.

Repetition of a Course

Repetition of a Course to Raise a Grade: A course in which the final grade is C or lower may be repeated for a higher grade. A course in which the final grade is a B may be repeated for a higher grade only with the permission of the Graduate Dean. A graduate
student may retake a maximum of two courses during graduate study in the University. The student may repeat each course only one time. All grades received for the course will be computed in the grade point average.

Repetition of a Course for Multiple Credit: A course may be repeated for multiple credit towards graduation only when so designated in the course description and approved by the faculty advisor.

Maximum Hours Graded Credit/No Credit

See "Credit/No Credit Grading" in the catalog section "General Academic Policies and Regulations" for information on the maximum number of semester hours graded credit/no credit permitted for graduate degrees.

Responsible Conduct of Research:

All faculty, staff and students conducting research at Texas A&M University-Corpus Christi are responsible for ensuring ethical conduct in research. The responsibility for the ethical conduct of student research is jointly held by the instructor and the student, each being fully responsible for the research. Training is available at https://www.citiprogram.org/. If conducting research on Human Subjects, the completion of this training program is required. For more information contact the Compliance Office at 361-825-2497.

Protection of Human Research Subjects

Texas A&M University-Corpus Christi must ensure that research subjects are properly informed of their rights, do not bear any inappropriate risk, have properly consented to their involvement, and are provided a favorable climate for participating in scientific inquiry. In compliance with federal regulations, the University requires all research involving human subjects to be approved by the Texas A&M University-Corpus Christi Institutional Review Board (IRB). See University Procedure 15.99.01.C1.01, Assurance of Protection of Human 4 Research Subjects, accessible at http://www.tamu.edu/provost/university_rules/research/159C11.htm, for information on this topic.

Protection of Animals in Research

Texas A&M University-Corpus Christi has an Institutional Animal Care and Use Committee (IACUC) that meets all federal requirements, as defined in the Animal
Welfare Act (AWA). The IACUC is responsible for the oversight, evaluation, and assurance of compliance for the institution's animal care and use program. In compliance with federal regulations, the University requires all research involving vertebrates to be approved by the Texas A&M University-Corpus Christi IACUC committee. See University Procedure 15.99.01.C1.01, Institutional Animal Care and Use Committee, accessible at http://www.tamucc.edu/provost/faculty_handbook/section%203/315.pdf, for information on this topic.

**Academic Requirements for Graduate Work**

**Good Standing:** Graduate students, including degree-seeking, certificate-seeking, and non-degree-seeking students, are considered in "good academic standing," making satisfactory academic progress, if they maintain a minimum 3.0 cumulative grade point average (GPA) on all graduate course work and earn a grade of S (Satisfactory), IP (In Progress), or CR (Credit) on all course work that does not affect grade point average. A higher GPA may be required by some programs. In such cases, the higher standard will be substituted for 3.0 in the discussion below.

**Minimum grade requirement.** Only grades of A, B, C, S, and CR are acceptable for graduate credit. IP is considered acceptable with respect to the minimum grade requirement. Grades of D, F, U (Unsatisfactory), NC (No Credit), or NP (No Pass) are not accepted for graduate credit at Texas A&M-Corpus Christi. No more than two grades of C will be accepted as credit for any graduate program.

**Other scholastic requirements.** Satisfactory academic performance may also include specific program requirements which can include, and are not limited to, satisfactory research performance, a satisfactory GPA in the major, satisfactory performance in examinations, such as the comprehensive examination, satisfactory performance in the program capstone course, or other specific program requirements.

**Scholastic Probation and Enforced Withdrawal**

**Placement on Scholastic Probation:** A graduate student will be placed on scholastic probation if, at the end of any semester or term, the student's cumulative graduate grade point average falls below 3.0 (or higher GPA set by the program). A graduate student receiving a grade of U, NC, or NP in research will be placed on scholastic probation.

**Removal from Scholastic Probation:** A student must achieve a cumulative 3.0 GPA (or higher GPA if required by the program) within completion of the next 9 semester credit hours to be removed from scholastic probation if scholastic probation was due to
unsatisfactory GPA. The courses included in the 9 semester hours must be approved by the program faculty for degree-seeking students.

A student who receives a grade of U, NC, or NP in research may be removed from scholastic probation after one (1) year if the student achieves a cumulative 3.0 GPA (or higher GPA if required by the program) or subsequently receives grades of S, CR, or P in research.

A student will not be placed on scholastic probation in a graduating semester if the cumulative GPA is 3.00 or higher and there are no more than two C's for courses on the degree plan.

A student who is removed from scholastic probation is not eligible for placement on Scholastic Probation a second time.

**Placement on Enforced Withdrawal:** A student who is or has been on scholastic probation will be placed on enforced withdrawal if

- the student's grade point average for any subsequent term or semester falls below 3.0, or
- the student receives a second grade of U, NC, or NP in research, or
- other scholastic requirements are not met (see Other Scholastic Requirements section), or
- the student does not achieve the required cumulative GPA (3.0 or higher if required by the program) within completion of 9 semester hours.

A student who is removed from scholastic probation will be placed on enforced withdrawal if the student receives a second grade of U, NC, or NP in research or if the graduate grade point average falls below 3.0 (or higher GPA set by the program).

Enforced withdrawal is reflected on the student's academic record.

**Reinstatement:** A student on enforced withdrawal may not enroll in any graduate program for a minimum of 12 consecutive months. A student must reapply, meet current requirements for degree-seeking students, and be accepted by the University and the program to enroll for graduate studies following the period of enforced withdrawal. The application may be submitted prior to the requested enrollment date. Colleges or programs may develop additional procedures or requirements related to re-enrollment following enforced withdrawal. Please see the appropriate college or program section of the catalog for specific requirements.

**Effect of Scholastic Probation and Enforced Withdrawal on Financial Assistance or Veterans Benefits:** Students receiving financial assistance should see "Suspension Policy " in the "Financial Assistance " chapter of this catalog. For additional information,
they may contact the Office of Student Financial Assistance. Students receiving veterans’ benefits for education should contact the Office of Veterans Affairs for specific policies concerning VA status if placed on scholastic probation or enforced withdrawal.

**Scholastic Probation and Registration**

Students whose TAMUCC GPA causes their academic standing to reflect Scholastic Probation (below 3.0 GPA) [please see section on Scholastic Probation and Enforced Withdrawal] are not allowed to register for courses in the short session/s (August and January). If Registration is found for these sessions, the Office of the University Registrar will administratively drop said courses in these short session/s.*

**Changing Degree Programs**

If a student wishes to change a degree program, the student must submit an application for admission, pay the application fee, and comply with all program requirements as identified under the University and Degree Program Graduate Admission Criteria. No more than 12 semester hours of coursework taken in non-degree seeking, certificate seeking, or previous master's seeking status may be applied to any master's degree and no more than one-fourth of the credit hours required may be applied to any doctoral degree.

**Leave of Absence**

Students experiencing life changing or catastrophic events are encouraged to consult with their department chair and request a leave of absence in writing from the College of Graduate Studies, especially if the Recency of Credit Rule will be impacted. Consideration for requests submitted after the degree time limit has expired will be impacted by evidence of successful continuous progress towards the degree, programmatic changes, and faculty availability. A student who is in good standing may petition for a leave of absence of no more than two full academic terms and the maximum number of Leave of Absence requests is two. Requests for a leave of absence must be approved in advance by the faculty advisor, the Program Coordinator, the College Dean, and the Graduate Dean. If the Graduate Dean approves the petition, the registration requirement will be set aside during the period of leave. Leaves will be granted only under conditions that require the suspension of all activities associated with pursuing the
degree including use of university facilities and faculty mentoring/advice. Counting of the time to the completion of the degree ceases when a leave of absence is granted and resumes when the student re-enrolls to continue the program. Unapproved Leaves of Absence may result in the student being required to re-apply to his/her program. In case of extenuating circumstances, a one-semester leave of absence can be extended to a maximum of two full semesters by the student's Faculty Advisor and or Program Coordinator and the Graduate Dean. A student who returns to the University after an approved leave of absence will not be required to submit an application for readmission to the College of Graduate Studies. An international student should visit with an advisor in the Office of International Education to find out how a Leave of Absence may impact his/her stay or his/her re-entry into the U.S.

**Requirements for Master's Degrees**

In addition to the general requirements above, the following requirements apply specifically to the master's degree.

**Total Hours**

Master's programs normally require a minimum of 36 semester hours of approved graduate credit, 30 of which must be from courses at the 5000 level or higher.

**Transfer of Credit**

In addition to the general Transfer of Credit Policy, the following regulations will apply to master's degree course work:

- No more than twelve semester hours of graduate level study may be transferred.
- All transfer work must be appropriate to the degree being sought.
- Specific programs may limit the number of transfer courses allowed to less than twelve.

Please consult the college for additional information on transfer credit.

**Time Limit to Degree and Recency of Credit for Master's Degrees**

The requirements for a Master's degree at Texas A&M University- Corpus Christi must be completed within seven years subsequent to admission to the program. The seven-year
period begins the first semester students are enrolled and is calculated from the date of
degree conferral. Credit that is more than seven years old will not be counted toward a
master's degree. Exceptions, provided the courses were completed at this university, will
require strong justification in writing from the student requesting the exception as well as
revalidation plan. Written approval from the major department chairperson, the dean of
the college from which the degree is offered, the Graduate Dean, and the Provost are
required. See the revalidation process below.

**Revalidation of Courses Beyond the Seven Year Limit for Master's Degrees**

Courses listed on the plan of study completed more than seven years prior to graduation
are considered dated. The Department Chair or Program Coordinator recommends a
revalidation plan. Revalidation will verify that the student's knowledge in a specific
subject area is current and documented. Options for course revalidation include a written
examination, a 3-5 page essay, a project, a course retake, or other equally rigorous
academic means appropriate to the discipline to determine the student learning outcomes
have been met. Revalidation requests should be submitted on the Revalidation Request
Form and accompanied by a written justification, updated degree plan, revalidation plan,
and documentation used for revalidation. All revalidation requests and plans must be
approved by the student's advisor, the department chair, the College Dean, the Graduate
Dean, and the Provost. The student's advisor, department chair, and College Dean are
responsible for determining whether the student demonstrated sufficient course
knowledge necessary for successful course revalidation. Successfully revalidated courses
may be included in the student's plan of study. Graduate students will not be permitted to
submit more than 12 semester hours of the program's courses for revalidation. Courses
beyond the 12-semester hour limit will need to be retaken. Courses must have been
completed at this university to be eligible for revalidation.

**Degree Plans**

A copy of a degree plan, developed by the time a student has completed half of the course
work in the program, must be forwarded to the College of Graduate Studies.

**Exit Requirements:**
**Comprehensive Examination/Capstone Experience/Creative Project/Thesis**
All programs have a culminating experience. In addition to successful completion of all courses required for graduation, students are required to pass a comprehensive written examination taken during their final semester of enrollment or, if specified by the program, successfully complete a capstone experience or creative project or defend a thesis.

The thesis must be checked for plagiarism and approved by the thesis committee prior to the defense.

Students must be enrolled the semester in which the dissertation defense/final examination occurs and in the semester in which they graduate.

**Second Master's Degree**

A student who holds a master's degree may take a second MA or MS degree only if the second degree is in a distinctly different field of study. The MBA, MPA, MAcc, and MSN degree may be earned only once.

Students who already hold a master's degree and who wish to receive a master's degree of a different type must complete all college and University requirements for the degree, including a minimum of 30 additional semester hours at Texas A&M University-Corpus Christi. Upon the recommendation of the program coordinator and/or advisor, students may apply up to a maximum of 9 semester hours of related graduate credit from an earlier degree earned at this university to a second master's or terminal degree at this university. Such credit may be applied to a second master's degree only if it falls within the recency of credit policy and is approved by the program coordinator and/or advisor as appropriate course work for the degree sought. Some degree programs do not permit any credit from an earlier degree to be applied to a second master's degree. Please consult the specific program for details. Credit from a degree earned at another institution will not be applied to a second master's degree at Texas A&M University-Corpus Christi.

**Requirements for Terminal Degree Programs**

There are five doctoral programs and one Master of Fine Arts (MFA) Program at Texas A&M-Corpus Christi. The College of Education offers three doctoral degrees: a Ph.D. in Counselor Education, Ph.D. in Curriculum and Instruction, and an Ed.D in Educational Leadership. The College of Science and Engineering offers two degrees: a Ph.D. in Coastal and Marine System Science, an interdisciplinary program drawing from the natural, social, and computational sciences, and a Ph.D. in Marine Biology, an interdisciplinary degree program in collaboration with Texas A&M University-College
Station and Texas A&M University- Galveston. The College of Liberal Arts offers the Masters of Fine Arts.

The goal of terminal degree programs at Texas A&M University-Corpus Christi is to provide students with a comprehensive discipline-specific knowledge base and extensive training in the methods of research/creative output. The programs are designed to encourage students to make contributions that advance their field of expertise.

The student is expected to demonstrate an ability to conduct independent research, and the ability to express thoughts clearly in both verbal and written and/or creative formats. In addition to earning a terminal degree, candidates must successfully complete all requirements, demonstrate a high level of professional skill and performance in their academic work and their internship experience (if required), and submit a dissertation/creative product acceptable to the committee. Specific program requirements can be found in the appropriate sections of the catalog.

**Texas 99 Hour Rule**

The Texas State Legislature has enacted a rule that provides that students at all state universities with over 99 doctoral hours may be subject to the payment of nonresident tuition. A student will generally be able to study at Texas A&M University - Corpus Christi full-time for five complete academic years, including summers, before being affected by the 99 hour rule. For students staying beyond five years, in a number of cases there is still the possibility of a programmatic or individual exemption from the rule. For more information, contact the Program Specific Coordinator.

**Residency**

Terminal degree students will be required to continuously register in courses for a minimum period of one academic year, or longer if specified by the requirements of the program. The purpose of the residency is to permit professional interaction with program faculty and students. The residency provides an opportunity for sustained intellectual effort/creative output by enhancing exposure to new concepts in the discipline, to research methodologies and to development of research competency with the outcome resulting in a dissertation containing original research or a solo MFA final thesis and exhibition.

Students must be enrolled the semester in which the dissertation defense/final examination occurs and in the semester in which they graduate.

**Continuous Doctoral Enrollment**
Unless on an approved leave of absence, doctoral students in degree programs must be registered continuously for a minimum of 3 semester credit hours per long semester (fall and spring semesters) during the academic year and pay the designated tuition and fees. Individual programs may have additional credit hour requirements. Students working on research/scholarly activity toward their dissertation should enroll in the number of credit hours that reflects the extent of a student's study or research activity. An international student may have additional registration requirements depending on his/her visa status. He/she should consult with the Office of International Education website to obtain current information. If the student holds a graduate assistantship, scholarship, or other form of financial support, the enrollment requirement is typically set by the conditions for that support. Students on graduate assistantships must be enrolled for a minimum of 6 credit hours per long semester (See Graduate Assistantships). Individual programs may have additional credit hour requirements for graduate assistantships. Unapproved Leaves of Absence may result in the student being required to re-apply to his/her program.

**Time Limit to Degree and Recency of Credit for Terminal Degree Programs.**

The requirements for a terminal degree at Texas A&M University-Corpus Christi must be completed within ten years subsequent to admission to the terminal degree program. The ten-year period begins the first semester students are enrolled and is calculated from the date of degree conferral. Students have a maximum of five years to advance to candidacy and a maximum of 5 years from candidacy to successfully defend the dissertation. Students who exceed the candidacy deadline may request an extension. Candidacy extensions will require strong justification in writing from the student and should be accompanied by a plan for timely completion of the comprehensive examination, the proposal, and the final dissertation. The extension must be approved by the student's advisor, the department chair, the College Dean, and the Graduate Dean. Credit that is more than ten years old will not be counted toward a terminal degree. Exceptions, provided the courses were completed at this university, will require strong justification in writing from the student requesting the exception as well as a revalidation plan. Written approval from the major department chairperson, the Dean of the college from which the degree is offered, the Graduate Dean, and the Provost are required. See the revalidation process below.

**Revalidation of Courses Beyond Degree Time Limit (for Terminal Degrees)**
Courses listed on the plan of study completed more than ten years prior to graduation are considered dated. The department chair or program coordinator recommends revalidation of dated courses. Revalidation will verify that the student's knowledge in a specific subject area is current and documented. Options for course revalidation include written examinations, 3-5 page essay, a project, course retake, or other equally rigorous academic means appropriate to the discipline to determine the student learning outcomes have been met. Revalidation requests should be submitted on the Revalidation Request Form and accompanied by a written justification, updated degree plan, revalidation plan, and documentation used for revalidation. All revalidation requests and plans must be approved by the student's advisor, the department chair, the College Dean, the Graduate Dean, and the Provost. The student's advisor, department chair, and College Dean are responsible for determining whether the student demonstrated sufficient course knowledge necessary for successful course revalidation. Successfully revalidated courses may be included in the student's plan of study. Graduate students will not be permitted to submit more than 12 semester hours of their program's courses for revalidation. Courses beyond the 12-semester hour limit will need to be retaken. Courses must have been completed at this university to be eligible for revalidation.

**Credit Hour Requirement**

Normally a doctoral degree will consist of a minimum of 90 hours beyond the bachelor's degree for students admitted to a doctoral program directly after completion of the undergraduate degree. For students who have completed a master's degree, a minimum of 60 hours is required for the doctoral degree. The majority of the doctoral degree plan course work must be doctoral-level courses.

An MFA degree consists of 60 hours beyond the bachelor's degree.

**Transfer of Graduate Credits**

In addition to the general Transfer of Credit Policy, specific requirements must be met for courses that may transfer for terminal degree credit. The following rule applies to these courses, with the exception of degrees offered jointly. (See Educational Leadership.)

- The student must have been enrolled as a terminal degree student when the coursework was completed.
- The maximum amount of transfer credit from another doctoral degree program accepted toward the Texas A&M University-Corpus Christi degree is one-fourth of the credit hours required for the A&M-Corpus Christi degree.
Doctoral Committee (MFA Committee requirements can be found in the MFA section of the Catalog)

The student will choose a doctoral committee chair from among the regular graduate faculty members of the doctoral program. Doctoral committees will be composed of a minimum of four Texas A&M University-Corpus Christi graduate faculty members and will include the doctoral committee chair, two other graduate faculty members and a Graduate Faculty Representative from a different department or college and not with another doctoral program, selected by the Graduate Dean. The Graduate Dean will officially appoint the doctoral committee. Normally, the student's advisor and the committee members recommended by the student and the advisor will be faculty members from the program offering the degree. Persons with unique and appropriate expertise may be appointed to the dissertation committee upon approval of the Graduate Dean for the dissertation portion of the doctoral program. All doctoral committee members representing the student's discipline may be required to review and approve degree plans and participate in qualifying examinations, proposal hearings, comprehensive and final examinations, including defense of dissertation, and all are required to sign relevant documents. More than one dissenting vote in the comprehensive exam or final exam (which includes dissertation defense) will constitute failure. The Graduate Faculty Representative will not be required to attend or evaluate materials related to the comprehensive examination. The signature of the student is required on degree plans.

Graduate Faculty Representative

The Graduate Faculty Representative helps ensure that the quality of the graduate degree is appropriate for Texas A&M University-Corpus Christi and that students receive fair and reasonable treatment in their graduate experience. All committee members will be provided a copy of the dissertation allowing for a two week turnaround before the defense of dissertation and final exam.

Degree Plan

All students will develop a degree plan that is consistent with the requirements of the program. Degree plans must be developed by the time students have completed half of the course work in the program prior to completing 18 months, and copies should be forwarded to the College of Graduate Studies to be approved by the Graduate Dean. All doctoral degrees will have a minimum of 90 credits beyond the bachelor’s degree. For students who have completed a master's degree, a minimum of 60 credits beyond the
master's degree is required for the doctoral degree plan. In the case of a 90-credit-hour doctoral degree plan, up to 30 hours may be from a master's degree program in an appropriate field of study. Changes in the degree plan must be approved by the doctoral committee chair, the College Dean, and the Graduate Dean.

**Comprehensive Exam**

Each student must take a written comprehensive exam. The timing and content of the exam will be determined by the program faculty and will focus on the field in which the degree is taken. All faculty members responsible for portions of the written exam will provide a response of satisfactory or unsatisfactory (or other grade) within one calendar week and inform the advisor of reasons for the unsatisfactory grade if such a grade is given. The doctoral committee members representing the student's discipline will then determine the outcome. More than one dissenting vote in the comprehensive exam constitutes failure. The examination result must be reported to the Graduate Dean within 2 weeks of the completion of the exam. In the event of a failure, one repetition will be permitted and a reexamination date will be negotiated with the doctoral committee.

**Candidacy**

A student is advanced to candidacy after successful completion of the comprehensive exam. Doctoral students have a maximum of five years to advance to candidacy.

**Dissertation Proposal**

A research proposal must be submitted in written format and be presented in a meeting between the student and the doctoral committee. The dissertation should include the application of sound research strategies applied to identified problems within one's discipline. Dissertation research typically adds to the literature in one's field of study. The proposal should be submitted at least two weeks proposal hearing and must be submitted no fewer than two semesters prior to the student's anticipated graduation.

**Dissertation Defense/Final Examination**

The comprehensive exam must be passed and courses in the plan of study completed with a GPA of not less than 3.0 before the dissertation defense/final examination will be scheduled. The dissertation defense/final examination must cover the dissertation but need not be limited thereto.
It is the responsibility of the student to apply to the College of Graduate Studies in order to schedule the defense. Prior to the defense/examination, the following should occur:

1. The student submits a copy of the dissertation to each committee member for review allowing for a two-week turnaround (normally a minimum of 7 weeks prior to graduation).

2. After reviewing the dissertation, the dissertation committee chair will sign the form titled Preliminary Agreement to Schedule the Dissertation Defense indicating preliminary acceptance of the dissertation. Preliminary approval indicates that major changes will not be required in the final copy of the dissertation. The Preliminary Approval of Dissertation form will not be signed if major changes are required in the dissertation, or if committee members determine that further study is necessary.

3. After the Preliminary Agreement to Schedule Dissertation form is signed by the dissertation chair and the program coordinator or department chair, the student must submit the form to the College of Graduate Studies by the deadline specified in the academic calendar (normally eight weeks prior to graduation). Upon receipt of the signed form, the College of Graduate Studies will announce the dissertation defense/final examination. The defense must be scheduled for a minimum of six weeks prior to graduation. Unless the deadline is met, the student will not be permitted to graduate until the following semester.

4. The dissertation needs to be checked for plagiarism and approved by the dissertation committee prior to the defense.

5. Oversight of the dissertation defense/final examination will be the responsibility of the dissertation chair. All members of the dissertation committee will attend the dissertation defense/final examination. One committee member, excluding the chair, may participate electronically. The dissertation defense/final examination will be open to all members of the university community. However, at some point the dissertation defense/final examination will close to permit the completion of the examination by the doctoral committee. The dissertation chair will submit a final report of the outcome to the Graduate Dean.

Subsequent to the dissertation defense/final examination, the student will submit an electronic copy of the dissertation, not later than four weeks prior to graduation, to the College of Graduate Studies where it will be reviewed and given final approval and acceptance by the university. The format of the submitted dissertation must conform to university guidelines, which are available at the College of Graduate Studies website. If corrections are required, the dissertation will be returned to the student for revision.

Application for Degree
The doctoral degree is awarded at each semester's graduation ceremony: spring (May), fall (December), and summer (August). Students must submit a completed application for graduation to the Office of Admissions and Records by the deadline indicated in the Academic Calendar.

**Pathways To The Doctorate**

Pathways to the Doctorate is a program dedicated to increasing the number, quality, and diversity of master's and doctoral graduates across all disciplines within The Texas A&M University System. Consisting of nine universities as well as the Health Science Center, the System spans the State of Texas. This enables the System to recruit top students from a variety of geographical, socio-economic, racial, ethnic, and cultural environments. The Pathways to the Doctorate program is one approach to meeting the goals of the state's higher education plan, Closing the Gaps. The goal of Pathways to the Doctorate is to attract high achieving students within The Texas A&M University System to pursue careers in higher education.

Through a variety of activities such as seminars and workshops, inter-institutional exchange programs, a mentoring program, and an annual research symposium with system-wide participation, the Pathways program aims to:

- create a pathway for talented students to pursue graduate education
- foster opportunities for faculty, graduate students, and undergraduate students to collaborate and to foster innovative research and interpersonal communication skills
- enlighten and encourage students and teachers (K-12 through college) to see that science and technology are essential to lead a life of discovery and fun
- help meet faculty needs as post-secondary enrollment grows and current faculty retire.

Additional information may be found at http://www.tamus.edu/pathways.

**Graduate Assistantships**

There are two types of graduate assistants at Texas A&M University-Corpus Christi: graduate teaching assistants and, graduate research assistants, and graduate assistants. Students interested in serving as graduate assistants should contact the coordinator of their graduate program to check availability. Graduate students interested in becoming teaching assistants in the First-Year Seminar Program should contact the
Co-Directors of the University Core Curriculum Program for information. Graduate assistants receive an assistantship, which helps them finance their graduate studies.

Any student serving as a graduate assistant with a 50% FTE appointment during a regular semester (fall or spring) must be enrolled for at least 6 hours of graduate-level coursework in that semester. Individual programs may have additional credit hour requirements. Any student serving as a graduate assistant with a 50% FTE appointment during the summer must be enrolled for at least 3 hours of graduate level coursework during the combined summer terms. Any exceptions to these rules must have the approval of the Graduate Dean.

Teaching assistants must meet the enrollment requirements in the previous paragraph and are expected to make steady progress toward the completion of an advanced degree. Any exceptions to this rule must have the approval of the Graduate Dean.

Non-resident or international students holding a 50% FTE graduate assistantship receive instate tuition and fees at the rate charged to Texas residents for the semester in which they hold the assistantship appointment.

**Tuition, Fees & Financial Assistance**

**Tuition and Fees**
- Texas Residency
- Financial Obligations
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- Veterans Affairs Office
Tuition and Fees

Information on current tuition and fees can be viewed at http://businessoffice.tamucc.edu/tuition_and_fees%20/index.html.

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

Texas Residency

All students attending Texas A&M University-Corpus Christi who are non-residents of Texas will be charged additional tuition in accordance with State law.

In general, students will be classified as Texas residents if they meet one or more of the following criteria:

1. Any individual who has resided in Texas from birth.

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

Additionally, there are certain other circumstances under which an individual may be classified as a Texas resident. Residency status will be established according to the interpretations by the Texas Higher Education Coordinating Board pursuant to Title 19, Chapter 21, Section B of the Texas Education Code. The Coordinating Board rules on determining residency status may be found at the following web site: http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=1&ch=21&rl=24.

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 College of Graduate Studies a Residency Status Questionnaire prior to registration. For more information about Texas Residency can be found at http://admissions.tamucc.edu/residency.html.

Financial Obligations

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

All tuition and fee costs are due upon registration, and failure to pay may result in the loss of the student's schedule. Registration is not completed 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 students 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:

Business Office
Texas A&M University-Corpus Christi
6300 Ocean Drive Unit #5765
Corpus Christi, Texas 78412-5765

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

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

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

**Refund of Tuition and Fees**

A student officially and completely withdrawing from the University during the semester may be subject to 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 of the semester
80% during the first five class days of the semester
70% during the second five class days of the semester
50% during the third five class days of the semester
25% during the fourth five class days of the semester
No refund thereafter
Less than 10 Weeks but Greater than 5 Weeks Term:
100% prior to the University's first official class day of the semester
80% during the first three class days of the semester
50% during the second three class days of the semester
No refund during the seventh class day and thereafter

5 Weeks or Less Term:
100% prior to the University's first official class day of the semester
80% during the first class day of the semester
50% during the second class day of the semester
No refund during the third class day and thereafter

The number of class days is counted from the first official class day of the University each semester, not the meeting days of a particular class.

For more information, contact the Business Office or go to http://falcon.tamucc.edu/~business/imp_dates_install.htm and click on Important Dates.

The process to withdraw 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 of the semester
No refund after 12th class day

Less than Ten Weeks but Greater than Five Weeks Term:
100% prior to and including 4th class day of the semester
No refund after 4th class day
Five Week Summer Term:

100% prior to and including 3rd class day of the semester

No refund after 3rd class day

2½ Half Week Summer Term:

100% prior to and including 2nd class day semester

No refund after 2nd class day

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

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

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

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

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

Refunds

A refund will result when a credit balance remains on each student's Business Office account after all charges are paid. A credit balance may occur due to overpayments, dropped courses, withdrawals or financial aid (loans, scholarships, grants, etc…).

Refunds are issued to the students by a refund contractor, Higher One. A new student, upon registration, will receive in the mail, from Higher One, an account number along with refund preference instructions. Higher One will use the Billing Address on file with the University to send this correspondence to the student. It is important that this address is current. The student's account number, embossed on each Easy Refund Card (MasterCard Debit Card) will be used to activate the refund choice with Higher One. This is not a credit card, but an account for refund processing and will be needed for the entire
time as a student, so it must not be thrown away. The account must be activated at https://corpuschristi.higheroneaccount.com and the student 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 they have registered they will receive the card in 7 to 10 business days. Students who have not received their Easy Refund Card should go to https://corpuschristi.higheroneaccount.com and select Where's My Card or contact the Business Office at (361) 825-2600.

**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).

**Methods of Payment**

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

**Installment Payment Plan (Fall and Spring Only)**

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

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

Students who register for classes during WEB Registration and wish to use an Installment Payment Plan must sign up online through the SAIL website at http://sail.tamucc.edu/. More information about Installment Payment Plans can be found on the Business Office website at http://businessoffice.tamucc.edu/faq_install.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://businessoffice.tamucc.edu/faq_emergency.html. There is a non-refundable processing fee of $25.00 per loan. A late payment fee of $25 will be added to each loan that is not paid in full by the due date.

Fees

Information on current tuition and fees can be found at the Business Office website at http://businessoffice.tamucc.edu/tuition_and_fees%20/index.html.

Fees for Proctored Exams

Courses may require the use of exam-proctoring involving third party charges. Exam-proctoring charges may range from $1 - $50.00 per exam. Students may be required to schedule exams at least 24 hours in advance or incur late scheduling charges. All costs for exams are the responsibility of the student. Students may also be responsible for providing webcams to be used in test proctoring.
Parking Fees

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

Designated Tuition

Information on current tuition and fees can be found on the Business Office website at http://businessoffice.tamucc.edu/tuition_and_fees%20/index.html.

Graduate Student Tuition

Information on current tuition and fees can be found on the Business Office website at http://businessoffice.tamucc.edu/tuition_and_fees%20/index.html.

Lifetime Learning Tax Credits


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 a graduate 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 Research and Graduate Studies as degree-seeking;
3. be enrolled at least half-time (5 semester hours during a long semester or 3 hours during summer term);

4. Graduate students enrolled in a cooperative education (co-op) experience will be allowed fewer than the required hours to be considered full-time.

5. Graduate students enrolled in the "Minimester" online courses will be allowed fewer than the required hours to be considered full-time.

6. meet the deadlines set by the Office of Student Financial Assistance;

7. not be in default or owe a refund on any Title IV grant(s) or loan(s);

8. provide proof of eligibility if not a citizen of the United States;

9. provide documents that support information reported on applications for financial aid;

10. meet minimum G.P.A. requirements of a 3.0 and maintain satisfactory academic progress as required for financial aid eligibility to fulfill federal requirements.

Financial aid programs available to graduate students include Federal College Work Study, Texas Public Educational Grant (resident and non-resident), several Federal Loan programs, and various scholarships.

Federal Loans are distributed in two disbursements in accordance with federal regulations. If the student is receiving a loan for one term, the first disbursement will be 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.

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.

The Office of Student Financial Assistance does not administer graduate assistantships.

**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 assistance programs in order to maintain a consistent policy for all financial assistance applicants. Though this policy establishes the minimum standards for all financial assistance 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 Academic Scholarships and University Scholarships.

To be awarded or receive any financial assistance, a student must be admitted to the University in good academic standing, 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:

- Graduate Students: 3.0 Cumulative GPA

**Maximum Attempted Hours for Degree/Certificate Completion**

For financial assistance purposes, students enrolled in graduate degree or certification programs that require 36 semester hours will be limited to 54 attempted hours to complete their program.
Students enrolled in graduate programs that exceed 36 required hours will have their maximum attempted hours status evaluated on a case-by-case basis.

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 assistance. 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) 18 credit hours in an academic year, the student must complete a minimum of 12 credit hours \((18 \times 67\% = 12)\) 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 36 hours, the student must have completed a minimum of 24 credit hours \((36 \times 67\% = 24)\) to meet the standards for satisfactory academic progress.

**Review Policy**

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

**Financial Assistance Suspension Policy**
If it is determined that a student does not meet the minimum satisfactory academic progress requirements, he or she will automatically be placed on financial assistance suspension and will be notified accordingly. Students on financial assistance 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 assistance to reinstate eligibility. If, at the end of the semester/term, the student again meets the minimum satisfactory academic progress standards, the student may submit a written request to the Office of Student Financial Assistance to have his or her application for aid reinstated for the next and subsequent semesters/terms of the current academic year. Continued eligibility for the next academic year will be determined again at the end of the spring semester during the regular review process.

**Appeal Policy**

Students who fail to maintain satisfactory progress due to extenuating circumstances may submit an application for appeal to be reviewed by the Aid Appeals Committee. To appeal for reinstatement of financial assistance 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 attempted hours and is appealing based on a change of major, he or she should state the reason for the change and indicate the number of hours remaining to be taken in the new major. The student's academic advisor must complete the advisor section of the application.

If the appeal is approved by the Aid Appeals Committee, financial assistance 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 assistance received. Students should consult the Satisfactory Academic Progress Policy to determine if their withdrawal will affect future aid eligibility.

**Scholarships**

Students interested in applying for graduate scholarships may contact the Office of Research and Graduate Studies for information. It is also important that students actively seek information through their specific colleges or departments, including information on deadlines and requirements.

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. Contact the Office of Research and Graduate Studies website for more information, http://gradschool.tamucc.edu/index.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, call (361) 825-2331 or visit the web site http://vets.tamucc.edu.

**Enrollment Certification**

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

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

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

**Hazlewood Exemption**

In accordance with the Texas Education Code, Section 54.203, Texas veterans and eligible dependents must apply for benefits under the Hazlewood Act or the Hazlewood Legacy Act each term. An exemption of tuition and fees, with the exception of the student services fee, is granted per term for Hazlewood eligible students, up to 150 cumulative credit hours. Students must submit the application, an original, certified, or notarized copy of the veteran's discharge papers (VA Form DD-214 member 4 copy), and other qualifying documentation, and a letter from the Muskogee, Oklahoma VA Regional
The 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, 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. Contact the Veterans Affairs Office to determine training time criteria for the various summer terms.

**Graduate Students**

- Full-time student: 9 hours or more in fall or spring term
  6 hours or more in combined summer terms

- Three-quarter-time student: 7 to 8 hours in fall or spring term

- Half-time student: 5 to 6 hours in fall or spring term

- Less than half-time student: 4 hours or less in fall or spring term
  Reimbursement of tuition and fees only

**Graduate Assistantships**

There are two types of graduate assistants at Texas A&M University-Corpus Christi: graduate teaching assistants and, graduate research assistants. Students interested in serving as graduate assistants should contact the coordinator of their graduate program to check availability. Graduate students interested in becoming teaching assistants in the First-Year Seminar Program should contact the Co-Directors of the University Core
Curriculum Program for information. Graduate assistants receive an assistantship, which helps them finance their graduate studies.

Any student serving as a graduate assistant with a 50% FTE appointment during a regular semester (fall or spring) must be enrolled for at least 6 hours of graduate-level coursework in that semester. Individual programs may have additional credit hour requirements. Any student serving as a graduate assistant with a 50% FTE appointment during the summer must be enrolled for at least 3 hours of graduate level coursework during the combined summer terms. Any exceptions to these rules must have the approval of the Graduate Dean.

Teaching assistants must meet the enrollment requirements in the previous paragraph and are expected to make steady progress toward the completion of an advanced degree. Any exceptions to this rule must have the approval of the Graduate Dean.

Non-resident or international students holding a 50% FTE graduate assistantship receive instate tuition and fees at the rate charged to Texas residents for the semester in which they hold the assistantship appointment.

Academic and Student Services

Academic Support Services

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

Office of Academic Testing

The Office of Academic Testing provides testing services for students and the community. Some of the exams administered include the GRE subject exam, CLEP, THEA, and correspondence exams. For information on TExES examinations, see the "College of Education" section of the catalog. For additional information regarding Academic Testing services, call (361) 825-2334 or visit the website at http://testing.tamucc.edu/.
Center for Academic Student Achievement

The Center for Academic Student Achievement (CASA) is committed to providing academic support services to help students reach their own educational goals and succeed in the university environment. CASA programs are designed to improve the retention and graduation rates of university students. Students are encouraged to contact the Center for Academic Student Achievement, located in the Glasscock Student Success Center, call (316) 825-5933, or visit the website http://casa.tamucc.edu/index.php for further information.

CASA Services: The center's primary service is tutoring in various subjects, including writing, and graduate students may receive assistance from CASA writing consultants. CASA services are free and available to all A&M University-Corpus Christi students. In order to receive tutoring in a subject, a student must be enrolled at A&M University-Corpus Christi. The writing consultants strongly encourage students to make appointments to ensure sufficient time for a session. For more information, visit the website at casa.tamucc.edu.

The Writing Center

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

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

Mary and Jeff Bell Library

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

Computing Resources

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

Academic Accomodations for Students With Disabilities

Academic accommodations for persons with permanent disabilities are arranged through Disability Services. For more information, see "Disability Services" in the catalog section entitled "Student Services" or call (361) 825-5816.

Academic Support for Graduate Teaching Assistants

Courses for Teaching Assistants

The College of Liberal Arts/First Year Learning Communities Program offers a summer workshop to prepare graduate teaching assistants for teaching first year seminar courses. The college also offers ENGL 5392 (Practicum for Composition Instructors), which focuses specifically on preparing English Teaching Assistants.

The College of Science and Engineering offers SMTE 5004 (Seminar for Teaching Assistants), which prepares graduate teaching assistants in the sciences for classroom responsibilities.

Faculty Renaissance Center

The Center for Faculty Excellence (CFE) promotes professional growth and development for the faculty at Texas A&M University-Corpus Christi. CFE activities, such as workshops, are open to graduate teaching assistants who teach composition courses, First-Year Seminars, science labs, or any for-credit courses.

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, Judicial Affairs, Recreational Sports, University Center and Student Activities, 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.

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 employment and careers. The following services are available:

- Career counseling, computer-assisted assessment, and vocational guidance. Students may meet with a career counselor to explore interests and values, with a view toward choosing a career.
- Job search and graduate school advisement.
- Student employment services: assistance in finding on- or off-campus employment.
- Volunteer opportunities listing.
- On-campus recruiting and Job Fairs throughout the year targeted at different majors.
- Electronic resume referral service.
- Career Resource Library and Computer Lab.
- Career seminars, workshops and Business Etiquette Dinner.
- Videotaped "mock" interviews with trained counselors and professionals.

Career Services is located on the third floor of the University Center in Suite 304. For information, call (361) 825-2628 or visit the web site 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 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

The University offers assistance to students seeking housing while pursuing their studies. On-campus accommodations may be available on a limited basis. The University can assist students in locating off-campus housing.

Students desiring information about housing can go to the web site at http://housing.tamucc.edu.

Transportation Services

Any student may ride the Regional Transit Authority (RTA) buses free of charge by showing his or 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, contact the Office of Student Affairs at (361) 825-2612.

Judicial Affairs

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

Student Government Association (SGA)

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

Recreational Sports

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

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

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

**University Center And Student Activities (UCSA)**

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

**Alternative Spring Break (ASB)**

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

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

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

Education through Development, Growth, & 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 differences are respected. The Islander Cultural Alliance (ICA) is a student organization that organizes and promotes multicultural programs on campus. The group also concentrates on creating and accepting an inclusive campus environment through cultural awareness and education.

Some events include celebrating Black History Month, Disabilities Awareness Month, Gay, Lesbian, Bisexual, Transgender, Questioning and Allies Month, Hispanic Heritage Month 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.

**University Council of Student Organizations (UCSO)**

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

**Waves of Welcome (WOW)**

Waves of Welcome (WOW) is designed to help students become familiar with 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**

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 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 361-825-2601
- Women's Health Clinic - Gynecological services
- Men's Health Clinic
- Laboratory testing
- Pharmacy services
- Preventive health care and medical resource information - Referrals for community resources
- Blood pressure screening and monitoring
- Contraception, sexually transmitted diseases (STD), HIV testing, and counseling
- Physicals, vision, and hearing screening
- Substance abuse prevention, assessment, and referral
- Immunizations and tuberculin skin testing
- Educational consultations: nutrition, lifestyle, weight management, smoking cessation, and substance abuse
- Insurance and claim assistance.

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

**Bacterial Meningitis**

In accordance with Texas Senate Bill 1107 (SB 62, effective October 1, 2013), Texas A&M University-Corpus Christi (TAMU-CC) requires all new students under the age of 22 to provide certified proof from a health practitioner that they have received a valid bacterial meningitis vaccination or booster within the last five years. Students must submit their proof of vaccination or booster to the TAMU-CC Office of Recruitment and Admissions at least 10 days prior to the first day of class for the intended term of enrollment. Students who fail to submit certified proof of vaccination or a valid booster within the required timeframe will be unable to register for their intended term. Please note, vaccinations older than 5 years will require a booster and all bacterial meningitis vaccinations and boosters must be administered by a health practitioner authorized by law to administer an immunization.

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

For more details, see Office of Recruitment and Admissions and Important Facts about Bacterial Meningitis.

**TAMU-CC Tuberculosis Policy Requirements**

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

Women's Center

The Women's Center for Education and Service has been helping the women of Texas 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, refer to the website at: http://womenscenter.tamucc.edu.

Graduate Student Association (GSA)

Founded in 2005, the Graduate Student Association's mission is to promote academic diversity and interdisciplinary excellence by providing effective and active representation for the graduate students of Texas A&M University-Corpus Christi. The GSA goals include encouraging academic and professional development, and promoting the graduate culture at the University. For more information, visit the website at http://gsa.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, call (361) 825-5541 or visit the website http://www.goislanders.com/HomePage.dbml?DB_OEM_ID=14100&SPLASH_SET=YES&KEY=&DB_OEM_ID=14100&DB_LANG=&IN_SUBSCRIBER_CONTENT=.

Campus Security Report

Click here to view the university crime log.

Office of International Education

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

The OIE organizes and assists student with Study Abroad opportunities and supports faculty interested in developing faculty led programs. For information regarding studying abroad contact the Office of International Education at (361) 825-2789 located at CCH 126 or visit the website at http://oie.tamucc.edu/about_study_abroad.php.

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

Study Abroad

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

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

Faculty-led Programs

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

Reciprocal Agreements

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

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

Funding for Study Abroad Programs

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

How to get involved

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

Texas A&M University-Corpus Christi
Study Abroad Programs
Corpus Christi Hall 126-B
Corpus Christi, TX 78412-5780
(361) 825-2789
Fax (361) 825-2223
study.abroad@tamucc.edu

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

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

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

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

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

Community Outreach
Texas 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.

Research Resources

Research and Creative Activity Resources

Listed below are various research and creative activity units at Texas A&M University-Corpus Christi, some of which provide opportunities for graduate student training.

Antonio E. Garcia Arts & Education Center

The Garcia Center is located in a primarily low-income Hispanic neighborhood in the heart of Corpus Christi’s West Side. It was established in 1993 by the City of Corpus Christi as a Center for Hispanic Arts and became affiliated with The South Texas Institute for the Arts in 1997. In 2004, the College of Education of Texas A&M University-Corpus Christi assumed the management and direction of the city-owned facility and expanded its mission. The mission of the Garcia Center is to provide students and their families opportunities for constructive engagement in activities that enhance
their education and promote lifelong learning. With the help of local, state, and federal funding coupled with the efforts of Texas A&M-Corpus Christi faculty, staff, and students, the Garcia Center provides a safe environment for children to participate in a myriad of after-school and summer programs. Program focus areas include academic achievement, health and wellness, art, literacy, and counseling.

**Blanche Davis Moore Early Childhood Development Center**

The Early Childhood Development Center features a school for young children on the University campus. It also serves as a human resource laboratory where student learning can be observed, modeled, and investigated. The research and training mission of the Center is founded on providing comprehensive educational and family support services to residents of the Coastal Bend Region of South Texas. The research agenda focuses on observation and investigation of basic processes of human development, student learning, and effective teaching in a context of a multicultural, multilingual, and mixed-age environment.

**Bioacoustics Laboratory**

Organized under the Texas Engineering Experiment Station in 1987, the Bioacoustics Laboratory was transferred to Texas A&M University-Corpus Christi in 1997. The Lab’s mission is the development and dissemination of knowledge in bioacoustics and related fields. In support of this mission, the Lab carries on an active research program and supports undergraduate, graduate, and continuing education courses both on and off the Texas A&M University-Corpus Christi campus. Additionally, the Lab maintains a growing and accessible systematic collection of digital audio recordings of natural and anthropogenic sounds.

**Office for Business and Economic Research (OBER)**

The Office for Business and Economic Research (OBER) supports the mission of the College of Business by promoting faculty research and service to the community. OBER is the primary vehicle for providing service to the business community. Faculty members may elect to run their consulting projects through OBER. OBER is a self-sufficient unit, which requires charging a fee for its services.

**Center for Coastal Studies**
The Center for Coastal Studies, established in 1984, is an interdisciplinary marine science research unit of the College of Science and Engineering. The Center focuses on basic and applied research, ecological monitoring, public education outreach, and graduate level education/research programs, concentrating on the Texas coast but also extending throughout the Gulf of Mexico and Caribbean Sea. The Center has funding from several state and federal agencies that support graduate students. Work conducted by students while supported at the Center often serves as the research underpinning master’s theses in biology or environmental science. Scientists at the Center are regularly recruited to conduct environmental and conservation-related research on the gulf coast of Texas. Their endeavors contribute significantly to the knowledge and understanding of coastal and marine environments.

**Center for Educational Development, Evaluation, and Research (CEDER)**

The Center for Educational Development, Evaluation, and Research (CEDER), which was initiated in 2001, facilitates and coordinates grants, research, publications, symposia, and new initiatives for the College of Education at Texas A&M University-Corpus Christi. CEDER also serves as a center to facilitate evaluation and research for other educational agencies in Texas. The annual conference, sponsored by CEDER, provides an opportunity for graduate students and faculty to present their research and their new program initiatives.

**Office for Information Assurance, Statistics, and Quality Control (OIASQC)**

The Office for Information Assurance, Statistics, and Quality Control (OIASQC) 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 OIASQC 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.

**Center for Virtual Medical Education**

Established in 2007, the Center for Virtual Medical Education (CVME) provides cross-disciplinary expertise and resources to educational, governmental, and business entities in the development of three-dimensional virtual learning platforms that are rigorously
researched, developed, and tested extensively for reliability and validity. The center’s signature project is Pulse!! The Virtual Clinical Learning Lab, a virtual learning platform that replicates true-to-life physiological and pathophysiological states in three-dimensional virtual space. The CVME operates as a pool of training resources for military medical training, professional certification and credentialing, professional development, and graduate medical education.

**Center for Water Supply Studies**

The Center for Water Supply Studies was organized in 1991 to initiate cross-disciplinary research on water resources and other water-related issues in South Texas. Housed within the College of Science and Engineering, the Center focuses on research and education to develop professionals and leaders who can recognize and address water issues. Through active new research, the Center provides information needed to evaluate alternative strategies for local and regional management of surface and subsurface water resources. The Center provides science students with the opportunity to pursue research in the broad areas of water resources. It also provides data on issues related to water supply to regional governmental entities.

**Coastal Bend Business Innovation Center (CBBIC)**

Created in 2009, the mission of the CBBIC is to produce successful firms that will leave the program financially viable and freestanding. Among the goals are to enable and accelerate the growth of emerging innovative companies for the purpose of creating jobs, revitalizing neighborhoods, strengthening local and statewide economies, and promoting entrepreneurial economic development endeavors such as commercializing new technologies. CBBIC also provides executive level education in the greater South Texas Coastal Bend area, offering professional continuing education, seminars and 26 workshops.

The overriding philosophy is that the university is an integral part of a thriving community and that those who sustain us must also be sustained by a robust university contributing back into the economic community system in which we thrive. We provide clients access to appropriate rental space and flexible leases, shared basic business services and equipment, technology support services, professional PhD level consulting, student internship programs, coursework modeling and interaction, educational classes, and assistance in obtaining the financing necessary for company growth.

**Conrad Blucher Institute for Surveying and Science**
The Conrad Blucher Institute for Surveying and Science serves as a research center enhancing surveying and geospatial engineering science research and application of research knowledge, with primary emphasis on Texas and the Gulf of Mexico. The Division of Nearshore Research (DNR), a scientific and technical division under the Blucher umbrella, assists in the preservation and enhancement of the Texas coastal resources and ecosystems. The major component of DNR is the Texas Coastal Ocean Observation Network (TCOON), which monitors over 40 scientific data collection stations along the entire Texas coast with real-time data on tides, winds, currents, temperature, and barometric pressure. The Texas Spatial Reference Center, also a division of the Institute, works with the National Ocean and Atmospheric Administrations (NOAA) and the National Geodetic Survey (NGS) to provide accurate height information by integrating Global Positioning System (GPS) technology with existing survey techniques.

An academic member of the International Federation of Surveyors (FIG), the Institute is expanding its cooperation with international organizations. The Institute has a national reputation for developing innovative geospatial engineering science research and serves as a focused resource area for geospatial datasets relevant to the coastal environment. Researchers include scientists, professional surveyors and engineers who develop and apply geospatial technology solutions. University students are employed in research projects. The Blucher Institute was endowed by Conrad M. Blucher, a lifetime resident of Corpus Christi and Nueces County Surveyor.

**Harte Research Institute for Gulf of Mexico Studies**

The mission of the Harte Research Institute for Gulf of Mexico Studies is to support and encourage the long-term sustainable use and conservation of the Gulf of Mexico. The Harte Research Institute began operating in 2002 and occupied a new approximately 56,736 sq.ft. laboratory facility in 2005. The Institute’s research focus areas include coastal and marine policy and law, coastal and marine geospatial science, ecosystem studies and modeling, marine biodiversity/conservation science, socioeconomics, and ocean and human health. The Institute is a leading marine science and policy research institute on the Gulf of Mexico. The Institute was created with a $46 million endowment from Edward H. Harte, longtime resident of Corpus Christi and former owner/publisher of the *Corpus Christi Caller-Times*.

**National Spill Control School**

The National Spill Control School, established in 1977 and housed within the College of Science and Engineering, 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.

**Social Science Research Center**

The Social Science Research Center (SSRC) at Texas A&M University-Corpus Christi provides administrative support for research conducted by the faculty of the College of Liberal Arts. Through the SSRC, faculty engage in survey research, program evaluation, secondary research (data collection), and other forms of research, consulting, and professional training. Recent and current research projects concern crime and delinquency, educational attainment, economic indicators, substance abuse, citizen satisfaction with government services, transportation issues, social service networks, business and workforce indicators, youth issues, and program evaluations.

**The Art Museum of South Texas**

The Art Museum of South Texas is located at 1902 North Shoreline. The museum is housed in two connected architectural gems—the earlier one designed by Philip Johnson and the more recent structure designed by Ricardo Legorreta. The museum has been affiliated with the University since 1995. The museum is available for graduate students to use as a research tool through exhibitions of visiting works of art as well as of works of art from the permanent collection. Texas A&M University-Corpus Christi students have the opportunity to intern with one of the curators at the museum in order to advance their knowledge of art history. Graduate students also have opportunities to teach and apply practical career experiences through programs at the museum. In addition, the Art Museum sponsors visiting artists, lectures, films, symposia, and other events that enrich Texas A&M Corpus Christi students’ knowledge of their field of endeavor.

**University Galleries**

The University has two art galleries. The Weil Gallery is located in the Center for the Arts on Ward Island and includes exhibitions of leading contemporary artists among its varied offerings. It was founded in 1979. The Islander Art Gallery is the Art Department’s off-campus exhibition venue. Founded in 2005, it is located at the corner of Staples Street and Weber Road in the Hamlin Shopping Center. This spacious facility offers the university and community access to the work of nationally recognized artists as well as departmental faculty and alumni. All graduating MA and MFA thesis exhibitions are presented in this facility. The graduate painting studio is housed at the rear of the Islander
Gallery. This state-of-the-art facility provides graduate painting students with an inspirational and safe painting environment.

**Fields of Study**

At Texas A&M University-Corpus Christi, students may work toward graduate degrees in the following fields of study:

**Business**

Accounting MAcc

Business MBA

**Education**

Counseling MS

Counselor Education PhD

Curriculum and Instruction MS, PhD

Early Childhood Education MS

Educational Administration MS

Educational Leadership EdD

Instructional Design & Educational Technology MS

Elementary Education MS

Kinesiology MS

Reading MS

Secondary Education MS

Special Education MS

**Liberal Arts**
Art (Studio Art)  MA, MFA
Communication  MA
English  MA
History  MA
Psychology  MA
Public Administration  MPA

**Nursing and Health Sciences**

Family Nurse Practitioner  MSN
Nurse Education  MSN
Nursing Leadership  MSN
Nursing Practice  DNP

**Science and Technology**

Biology  MS
Coastal and Marine System Science  MS, PhD
Computer Science  MS
Environmental Science  MS
Fisheries & Mariculture  MS
Geospatial Surveying Engineering  MS
Geospatial Computing Sciences  PhD
Marine Biology  MS, PhD
Mathematics  MS

**College of Graduate Studies**
College of Graduate Studies

Mission

The College of Graduate Studies is committed to efficiency and excellence in support of a diverse group of students, faculty, and departments to foster a culture of Inquiry, Innovation and Impact.

Vision

The College of Graduate Studies supports provides a vibrant, challenging, and transformational educational experience that prepares graduates to be responsible global stewards for the public good worthy of international distinction.

For Additional Information

Campus address: Faculty Center, 1st floor
Texas A&M University-Corpus Christi
College of Graduate Studies

Mailing address:
6300 Ocean Drive, Unit 5843
Corpus Christi, TX 78412

Phone: 361-825-2177

College of Business

Degree Programs

- Accountancy, MAcc
- Master of Business Administration (MBA)
The business and accounting undergraduate and master's degree programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business. The College of Business offers work leading to the degrees of Master of Business Administration (MBA) and Master of Accountancy (MAcc).

Mission

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

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

College Academic Policies

Nondegree-Seeking Students

Students who hold a bachelor's degree from a regionally accredited institution and who wish to pursue further study at the undergraduate level or to obtain a second bachelor's degree should obtain permission to take courses from the Director of Master's Programs. This helps ensure that students accomplish their objectives.

Transient Students

A "transient" classification may be granted to a student in good standing in any regionally accredited graduate program who desires to enroll in the College of Business for any one semester or summer session. Students will be required to present a letter of graduate
standing and transcripts to document completion of prerequisites. A special form is available to facilitate enrollment. No more than 6 semester hours may be earned in this category, and course prerequisites must be met.

**Graduating Seniors**

Texas A&M University-Corpus Christi students in the last semester of an undergraduate degree, with cumulative GPAs of 3.0 or better, and acceptable GMAT or GRE scores on file, may enroll with permission from the Dean of the College of Business for a load not exceeding the maximum hours permitted for graduate students. Graduate courses cannot be used to satisfy undergraduate degree requirements.

**Residency Requirement**

A minimum of 24 semester hours for the graduate degree must be completed at the University.

**Courses Transferred from Other Universities**

A student may transfer up to six semester hours of graduate credit from another university with the permission of the Director of Master's Programs, if it is determined appropriate to the degree being sought. Graduate coursework transferred from other regionally accredited institutions of higher education prior to acceptance cannot be older than seven years at the time the master's degree is awarded. Credit to be earned at other institutions after acceptance in the graduate program must be taken at an AACSB accredited program and approved in advance. Approval is granted at the discretion of the Director of Master's Programs, and only under unusual circumstances such as job transfers or other extenuating circumstances.

**Second Master's Degree**

A student who holds a master's degree may take a second degree only if the second degree is in a distinctly different field of study.

A student who already holds a master's degree and wishes to receive a master's degree of a different type must complete all college and university requirements for the degree. Upon recommendation of the Director of Master's Programs, students may apply up to six semester hours of related graduate credit from an earlier degree earned at this university to a second master's degree at this university. Such credit may be applied to a second master's degree only if it falls within the recency of credit policy and is approved.
by the program director. Credit from a graduate degree earned at another institution will not be applied to a second master's degree at Texas A&M University-Corpus Christi.

**Course Approvals**

Students are not permitted to take undergraduate courses in lieu of graduate core courses without the written permission of the Director of Master's Programs. Prerequisites are strictly enforced.

Courses taken without the approval of the Director of Master's Programs are taken at the student's own risk. Students are responsible for knowing and fulfilling all general and specific requirements relating to the completion of their degree programs. Answers to specific questions about the programs may be obtained from the Director of Master's Programs.

**Program Continuation**

Students who fail to register for and complete at least one course per 12-month academic year will be dropped automatically from the program and must reapply for admission to continue in the program. In addition, students who do not wish to register in any given semester are requested to inform within 30 days of the beginning of the semester, in writing, the Director of Master's Programs of their intentions.

**Course Load, Grade Point Requirement, and Scholastic Probation and Suspension**

Maximum course load requirements are the same as general University requirements, as detailed in "Academic and Degree Requirements" in the "Graduate Programs" section of the catalog.

A graduate student, regardless of enrollment classification, must maintain a minimum graduate grade point average (GPA) of 3.0 on a four-point scale. The graduate GPA is computed on all graduate course work taken at this University in the student's present program of study.

If, at the end of the semester or term, the student's grade point average (as described in the previous paragraph) falls below 3.0, the student will be placed on scholastic probation until the required grade point average is restored. If, while on scholastic probation, a student's grade point average for any term or semester falls below 3.0, the student will be on enforced withdrawal.
No grade of less than "C" and no more than two "C's" earned in the College of Business masters' programs will be accepted as credit.

After a one-year period, a student who has been on enforced withdrawal must reapply and meet the current requirements for degree seeking students. The student must also petition the Graduate Advisory Committee to seek readmission. The College Dean must approve the Graduate Advisory Committee recommendation for readmission. Enforced withdrawal is reflected on the student's academic record.

**Application for Graduation**

(see graduation in "General Academic Policies and Regulations")

Students must apply for graduation through the Office of Admissions and Records by the deadline indicated in the Class Schedule in order to receive their degrees.

**Academic Honesty and Integrity**

The College of Business endorses and expects the highest level of honesty and integrity from business students.

The College of Business policies are the same as general University policies on academic honesty and integrity, which are described in the "General Academic Policies and Regulations" section of the catalog.

**Student Appeals**

Appeals for exceptions to policies or academic standards of the College of Business may be made in writing to the College of Business Graduate Advisory Committee in care of the Director of Master's Programs, College of Business, Texas A&M University-Corpus Christi, 6300 Ocean Drive, Corpus Christi, Texas, 78412. The College of Business Graduate Advisory Committee will review written appeals and subsequently make recommendations to the Dean of the College of Business.

**Master of Accountancy**

**Accountancy, MAcc**

The Master of Accountancy (MAcc) degree is designed to provide an opportunity for graduate study in accounting. The MAcc is intended to prepare professional accountants to fill high-level positions in accounting firms and business enterprises. The length of the
program is approximately one year of full-time study for the typical BBA graduate with a major in accounting.

Individuals with undergraduate degrees in areas other than accounting should consult with the Director of Master's Programs to determine specific course requirements for their programs.

**Student Learning Outcomes**

Students will:

- demonstrate the ability to communicate solutions to complex accounting situations to diverse audiences effectively, both orally and in writing;
- interpret and apply accounting theory and practice for complex organizations;
- demonstrate the ability to use analytical skills supported by information technology and research tools to solve complex accounting and business problems;
- recognize ethical and governance issues and resolve these in a socially responsible manner;
- solve accounting problems in diverse and changing environments.

**Admission Requirements**

Applicants must comply with University procedures and meet University standards for admission. Applicants must submit to the College of Graduate Studies a Graduate Admission Application. Also required are two letters of recommendation from persons able to evaluate the applicant's professional or academic performance, a resume or curriculum vitae, and other information that may have impacted the applicant's decision to pursue graduate study or deemed important to individual or career goals. Applicants are required to submit Graduate Management Admissions Test (GMAT) or Graduate Record Examination (GRE) scores prior to admission. Generally, GMAT and GRE scores will not be accepted if over five years old. The GMAT or GRE is not required of those who earned a graduate degree from a regionally accredited university. Students with a 3.25 GPA or higher in the last 60 hours of a BBA in accounting or finance and a grade of at least B in college algebra or higher level math course may waive the requirement to take the GMAT or GRE.

Admission decisions are made on the basis of undergraduate performance, GMAT or GRE scores, experience, and other indicators of the ability to pursue graduate study successfully. To be accepted in the graduate program, in addition to other requirements, applicants must be in good standing at the college or university they previously attended.
Official notification of the admission decision is issued by the Office of the Dean of the College of Business and is sent directly to the applicant. The College of Business does not have "conditional" or "non-degree seeking" graduate admission classifications. Normally, no credit will be applied toward a master's degree for graduate classes taken prior to acceptance into a graduate degree program in business.

Master of Accountancy Degree Requirements

Mathematics and Computer Proficiency Requirements

All MAcc students must meet the mathematics and computer proficiency requirements or take additional approved courses to satisfy these requirements.

Mathematics Preparation Requirement. Entering students must present satisfactory credits for at least six semester hours of college-level mathematics excluding remedial mathematics and first-level statistics courses. This requirement will be satisfied with college algebra and an introductory calculus course.

Computer Proficiency Requirement. Entering students must have completed MISY 2305, or the equivalent, with a grade of "C" or better.

Students with Nonaccounting Majors or Nonbusiness Degrees

Prior to taking advanced courses, individuals with a business degree without an accounting major will be required to complete the undergraduate accounting foundation courses. Individuals with a nonbusiness degree will be required to take the business core series in addition to the following accounting foundation courses.

Pathway to the Master of Accountancy
Students who have been admitted into Master of Accountancy program and have fifteen or less student credit hours to complete the Bachelor of Business Administration degree in Accounting may enroll in graduate accounting coursework with the approval of the Director of Masters Programs.

**The 150-Hour Requirement for CPA Examination**

The Texas State Board of Public Accountancy (TSBPA) has set the minimum educational requirements for taking the CPA examination at 150 hours. At least three hours of ethics is required. The course must be among those on the TSPBA approved list available on its website. Students aspiring to an accounting career should give serious consideration to pursuing the Master of Accountancy degree to enhance their potential for a successful 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 TSBPA. Students should visit the TSBPA website at [http://www.tsbpa.state.tx.us](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.

**TSBPA Education Requirements:**

1. Hold a baccalaureate or graduate degree conferred by a TSBPA recognized institution of higher education, and
2. Complete at least 150 semester hours in TSBPA board recognized courses, and
3. Complete at least 30 semester hours in qualifying upper division accounting courses recognized by TSBPA, and
4. Complete at least 24 semester credit hours of qualifying business subjects recognized by TSBPA, and
5. Satisfy the following additional education requirements:
   1. Communication education requirement:
      1. MGMT 3315, Communicating in Business, or
      2. ACCT 5341, Advanced Auditing and Assurance Services, or
      3. ACCT 5381, Accounting Theory.
   2. Research education requirement:
      1. ACCT 3321, Federal Income Tax I, and ACCT 4311, Auditing Principles and Procedures, or
      2. ACCT 5371, Tax Consulting, Planning, and Research
   3. Ethics education requirement:
      1. ACCT 4345, Ethics for Accountants and Business Executives, or
      2. ACCT 5345, Ethics for Accountants and Business Executives
3. Note: ACCT 4345 and ACCT 5345 do not count toward the 30 semester hours in upper level accounting requirement and a student may not take both ACCT 4345 and ACCT 5345. See the College of Business section of the Graduate Catalog for details on the MAcc and the MBA programs. (An advanced degree is not currently required to meet the 150-hour standard for becoming a candidate for the CPA examination.) See the Texas State Board of Public Accountancy website for more information: https://www.tsbpa.state.tx.us.

The Director of Master's Programs or the Department Chair in Accounting should be consulted for specific requirements.

Accounting Foundation Courses:

In addition to ACCT 2301 and 2302, the following accounting foundation courses are required:

- ACCT 3311 Intermediate Accounting I 3 sem. hrs.
- ACCT 3312 Intermediate Accounting II 3 sem. hrs.
- ACCT 3314 Cost Accounting 3 sem. hrs.
- ACCT 3321 Federal Income Tax I 3 sem. hrs.
- ACCT 3355 Accounting Information Systems 3 sem. hrs.
- ACCT 4311 Auditing Principles and Procedures 3 sem. hrs.
- BLAW 3310 Legal Environment of Business 3 sem. hrs.

These courses can be found in the "Course Descriptions" section of the undergraduate catalog located here: catalog.tamucc.acalog.com/content.php.

Core Courses:

The following courses form the core knowledge in business for students with nonbusiness undergraduate degrees. Core courses cannot be taken for advanced course credit.
Students must be admitted into the MAcc program before enrolling in graduate-level core courses.

Core Series

- ECON 5311 - Foundations in Economics 3 sem. hrs.
- ORMS 5310 - Statistical and Decision Analysis 3 sem. hrs.

Total Core Hours: 9

Master of Accountancy Advanced Courses:

Thirty credits of advanced graduate courses, including at least 24 hours of accounting courses above the 5315 level, will be required of all students.

1. General Requirements (9 semester hours):

- ACCT 5345 - Ethics for Accountants and Business Executives 3 sem. hrs. *
- ACCT 5371 - Tax Consulting, Planning and Research 3 sem. hrs. **
- ACCT 5391 - Integrative Seminar in Accounting 3 sem. hrs.

Total Hours: 9

Notes:

* ACCT 5345 fulfills the Texas State Board of Public Accounting (TSBPA) ethics education requirement but does not count toward TSBPA’s 30 credit hours of upper level accounting coursework. A Student who has previously taken ACCT 4345 may not take ACCT 5345 and must take an elective instead.

** ACCT 5371 Fulfills the TSBPA research education requirement. If a student has previously taken both ACCT 3321 and ACCT 4311 can elect to substitute another course for ACCT 5371

2. Advanced Accounting Requirements (9 semester hours from the following):

- ACCT 5341 - Advanced Auditing and Assurance Services 3 sem. hrs. ***
- ACCT 5351 - Strategic Cost Management 3 sem. hrs.
- ACCT 5355 - Information Systems in Accounting 3 sem. hrs.
- ACCT 5381 - Accounting Theory 3 sem. hrs. ***
Total Hours: 9

Note:

*** ACCT 5341 or ACCT 5381 may be taken to fulfill the TSBPA communication education requirement.

3. Graduate Accounting Electives (6 semester hours)

- ACCT 5317 Oil, Gas and Energy Accounting 3 sem. Hours
- ACCT 5332 Controllership 3 sem. Hours
- ACCT 5337 Taxes and Business Strategy 3 sem. Hours
- ACCT 5340 Forensic Accounting 3 sem. Hours
- ACCT 5370 Seminar 3 sem. Hours
- ACCT 5396 Directed Individual Research or Readings (and the course not selected in item 2 above).

4. Graduate Accounting or Business Electives (6 semester hours)

Total Advanced Hours: 30

Note:

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

For Additional Information

Website: http://www.cob.tamucc.edu

Campus address: O'Connor Building, Room 239; Phone: (361) 825-2655

Director of Master's Programs, College of Business
Texas A&M University-Corpus Christi

Mailing address:
6300 Ocean Dr. Unit 5808
Corpus Christi, TX 78412-5808

Master of Business Administration
Master of Business Administration (MBA)

The Master of Business Administration (MBA) program is designed for students with diverse undergraduate backgrounds. It is a program suitable for both nonbusiness and business graduates. The program is offered in two delivery formats - on-campus MBA, and online MBA.

The goal of the MBA program is to prepare individuals for the responsibilities of management in a wide variety of business and nonbusiness endeavors. Optional concentrations are available, by taking additional hours, in Finance, Health Care Administration, and International Business.

Student Learning Goals

1. To be effective communicators
2. To be competent in business practices
3. To be good decision makers
4. To be good citizens

Admission Requirements

Applicants must comply with University procedures and meet University standards for admission. Applicants must submit to the College of Graduate Studies a Graduate Admission Application. Also required are a resume or curriculum vitae, an essay describing professional and educational goals in at least 500 words, and other information that may have impacted the applicant's decision to pursue graduate study or deemed important to individual or career goals. Applicants are required to submit Graduate Management Admissions Test (GMAT) or Graduate Record Examination (GRE) scores prior to admission. Generally, GMAT and GRE scores will not be accepted if over five years old. The GMAT or GRE is not required of applicants with a last 60 hours GPA of at least 3.0 and a grade of at least B in a college algebra or higher level mathematics course. The GMAT or GRE is not required of applicants who earned a graduate degree (master's, doctoral, etc.) from a regionally accredited university and have at least a grade of B in college algebra or a higher level mathematics course.

Admission decisions are made on the basis of undergraduate performance, GMAT or GRE scores (if required), experience, and other indicators of the ability to pursue graduate study successfully. To be accepted in the graduate program, in addition to other requirements, applicants must be in good standing at the college or university they previously attended. Official notification of the admission decision is issued by the Office
of the Dean of the College of Business and is sent directly to the applicant. The College of Business does not have "conditional" or "non-degree seeking" graduate admission classifications. Normally, no credit will be applied toward a master's degree for graduate classes taken prior to acceptance into a graduate degree program in business.

**MBA Degree Requirements**

The number of hours required for the MBA degree requirements range from 30 to 42 and vary by concentration area, delivery format, and necessity for foundational courses for students with nonbusiness degrees. The program may require up to 42 hours of graduate work for nonbusiness majors and may be completed in as few as 30 hours for students with an undergraduate degree in business. The on-campus and online MBA formats both require 30 hours for students with an undergraduate degree in business. The selection of a concentration would increase the number of hours in the program of study to 36 for a student with an undergraduate degree in business.

**On-Campus and Online MBA**

**Students with Nonbusiness Degrees**

Students who have had no undergraduate work in business may be required to complete 12 credits of core courses designed to provide preparation comparable to the professional core in the undergraduate curriculum of the College of Business. Some or all of these core courses may be waived for students who have received a "B" or better in comparable undergraduate courses.

**Core Courses**

The following courses form the core knowledge in business required for students with nonbusiness undergraduate degrees. Core courses cannot be taken for advanced course credit. Students must be admitted to the MBA program before enrolling in graduate-level core courses.

- ACCT 5312 Foundations of Accounting 3 sem. hrs.
- ORMS 5310 Statistical and Decision Analysis 3 sem. hrs.
- ECON 5311 Foundations in Economics 3 sem. hrs.
Total Core Hours: 12

Note:

The Director of Master's Programs may waive core courses if the student has previously completed appropriate business courses. Graduate students from other colleges should consult the Director of Master's Programs in the College of Business for selection of appropriate courses. Courses need to be taken in an order that allows satisfying the prerequisite requirements (check course descriptions for prerequisites).

Master of Business Administration Advanced Requirements

In addition to satisfying the core requirements in business, all MBA students must complete a minimum of 30 credits of advanced graduate courses at the 5315 level or higher (36 hours for those electing to concentrate in Finance, Health Care Administration, or International Business as listed below). These advanced courses should be taken in the order listed to enhance understanding of course materials and satisfy needed prerequisites.

Advanced Courses:

- MISY 5325 Software Based Business Solutions 3 sem. hrs.
- OPSY 5315 Operations Management 3 sem. hrs.
- ECON 5315 Managerial Economics 3 sem. hrs.
- ACCT 5315 Accounting Topics 3 sem. hrs.
- FINA 5320 Managerial Finance 3 sem. hrs.
- MGMT 5320 Organizational Behavior and Theory 3 sem. hrs.
- MKTG 5320 Marketing Management 3 sem. hrs.
- MGMT 5355 Administrative Strategy and Policy 3 sem. hrs.*
- Approved Electives 6 sem. hrs.

Total Advanced Hours: 30

*Must be taken at the end of the program after completion of all advanced, non-elective, courses. In unusual circumstances, it may be taken concurrently with the final required courses with the written permission of the Director of Master's Programs.

Students with an undergraduate major in the field of an advanced course may substitute an additional approved elective in that field. At least 18 credits must be in areas other
than the area of concentration. Electives (courses numbered above 5315) are selected from the offerings of the College of Business.

Concentration Courses

A concentration is not required in the MBA, but is available to students desiring degree specialization. Students who elect to concentrate in Accounting, Finance, Health Care Administration, or International Business are required to complete 36 hours of advanced courses: 24 hours of required credits and 12 hours in the area of concentration.

Finance Concentration Requirements: (12 semester hours from the following)

- FINA 5325 Real Estate Finance and Investments 3 sem. hrs.
- FINA 5330 Analysis of Derivative Securities 3 sem. hrs.
- FINA 5333 Personal Financial Planning 3 sem. hrs.
- FINA 5335 Multinational Finance 3 sem. hrs.
- FINA 5340 Investment and Portfolio Theory 3 sem. hrs.
- FINA 5345 Financial Markets and Institutions 3 sem. hrs.
- FINA 5370 Seminar 1-3 sem. hrs.
- FINA 5396 Directed Individual Research Or Readings 1-3 sem. hrs.

Health Care Administration Concentration Requirements: (12 semester hours from the following)

- HCAD 5312 The Health Care System 3 sem. hrs.
- HCAD 5320 Health Economics and Policy 3 sem. hrs.
- HCAD 5325 Health Care Financial Management 3 sem. hrs.
- HCAD 5330 Health Law and Ethics 3 sem. hrs.
- HCAD 5390 Health Care Selected Topics 3 sem. hrs.

International Business Concentration Requirements: (12 semester hours from the following)

- ECON 5335 International Economics 3 sem. hrs.
- FINA 5335 Multinational Finance 3 sem. hrs.
- MGMT 5335 Multinational Management 3 sem. hrs.
- MKTG 5335 Marketing in the International Environment 3 sem. hrs.
- Approved Graduate Elective 3 sem. hrs.
Note:

Students in all graduate business programs must comply with the college academic policies and requirements described previously.

For Additional Information

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<th>Website</th>
<th><a href="http://www.cob.tamucc.edu">http://www.cob.tamucc.edu</a></th>
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<tr>
<td>Campus address</td>
<td>Michael and Karen O'Connell Building, OCNR 234; Phone: (361) 825-2655</td>
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<tr>
<td>Mailing address</td>
<td>Director of Master’s Programs, College of Business</td>
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College of Education & Human Development

College of Education & Human Development

Master's Programs

- Counseling, MS
- Curriculum and Instruction, MS
- Early Childhood Education, MS
- Educational Administration, MS
- Elementary Education (MAC), MS
- Instructional Design and Educational Technology, MS
- Kinesiology, MS
- Reading, MS
- Secondary Education (MAC), MS

Doctoral Programs

- Counselor Education, PhD
- Curriculum and Instruction, PhD
- Educational Leadership, Ed.D.

Certificates

- Educational Diagnostician
- Graduate Certificate in Counseling Spanish-speaking Clients
- Principal Certificate
- Reading Specialist Certificate
- Superintendent Certificate
- Supplemental Certificates
- Programs Leading to Post-Baccalaureate Teaching Certification (MAC) and (ACE)
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.

Graduate Programs

The College of Education (COE) offers the Doctor of Education, Doctor of Philosophy and Master of Science degrees in the majors listed below. The COE graduate program also offers the certification areas and Supplemental Certificates listed below.

Doctor of Education

Educational Leadership (offered jointly by Texas A&M University-Corpus Christi and Texas A&M University-Kingsville)

Doctor of Philosophy

Counselor Education

Curriculum and Instruction

Master of Science

Counseling
Curriculum and Instruction
Early Childhood Education
Educational Administration

Elementary Education
Kinesiology
Reading
Secondary Education
Instructional Design and Educational Technology

Special Education

Certification Areas

All-Level Education (EC-12)  Principal
Elementary Education (EC-6, 4-8)  Reading Specialist
Educational Diagnostician  School Counselor
Secondary Education (7-12)  Superintendent

Supplemental Certificates:

Bilingual Education (EC-6)  Gifted and Talented
English as a Second Language

Graduate programs offered by the COE are designed to provide opportunities for students to engage in scholarly pursuits at advanced levels. Emphasis is placed on the acquisition and application of existing knowledge and the generation of new knowledge.

While the course sequence in some of the degrees is designed to provide graduates with competencies required for certification, degree plans may be tailored to meet the special needs of students who desire the degree, but not the certification.

College of Education Graduate Policies and Regulations

In addition to the University's graduate policies and requirements in the general section of the catalog, the College of Education has the following policies and regulations.

Graduate Admission to the College of Education
Applicants are eligible to pursue master- or doctoral-level course work in the COE if they meet the following conditions.

1. All applicants must meet the general graduate admission requirements of the University.
2. Applicants must have a minimum undergraduate GPA of 3.00 and a graduate GPA of 3.00 on the last 60 semester credit hours of undergraduate work and any previous work in graduate school.
3. Applicants must complete the goals statement as required on the application form. The statement should be between 300 to 400 words, and should include information about their reasons for pursuing graduate study and for choosing a specific graduate program in the College of Education. Other background information relevant to the application may be included. Applications will be evaluated by the appropriate faculty and/or advisor within the College of Education.
4. Students who have submitted all required application documents, but who do not meet the minimum GPA of 3.00, may enroll in the degree program of their choice in a conditional status in courses approved by the chair of the department in which the applicant seeks admission. Students seeking initial certification with a Master of Science in Elementary or Secondary Education must have at least a 2.5 GPA to be considered for conditional admittance into the Educator Preparation Program. (See "Conditional Status" in the "Admission" section of the catalog.) Such students must achieve not less than a 3.00 GPA in the specified courses. After completing at least 6 semester credit hours with a GPA of not less than 3.00 at this University, applicants may continue the application process into a graduate program in the College of Education. Graduate students on conditional status can normally take no more than 6 graduate hours per semester until the conditional status is removed. However, students admitted conditionally in the department of Counseling and Educational Psychology may take 9 semester credit hours per semester with the approval of the Department. If students fail to meet the conditions stipulated by the department to which they were conditionally admitted, they will be suspended from the College of Education for at least one year. During this suspension, they cannot take any graduate courses in the College of Education. After a year's suspension, students may reapply for the program of their choice. No more than 9 semester hours of courses taken at this University or any other University while in this conditional status may be applied to this specific graduate degree at Texas A&M University-Corpus Christi.

Applicants for the counseling programs will have additional admission requirements. Please check with the Counseling Department for details.
Applicants for the doctoral programs in counselor education, curriculum and instruction, or educational leadership must meet all additional requirements for those programs as specified by the program. For doctoral application deadlines, see the catalog section for the appropriate doctoral program.

Certification Plans and Master of Science Degree Plans

Prior to full or conditional acceptance into the College of Education Graduate Program, students seeking initial certification and a Master of Science degree in Elementary Education or in Secondary Education must 1) meet all requirements of the Office of Graduate Studies and pass the desired content area TExES Pre-Admission Content Exam (PACT). More information regarding the PACT can be found at the Educational Testing Services (ETS) website: http://cms.texes-ets.org/epp/epppact/; 2) Complete a screening essay to be read by a faculty member of the Department of Teacher Education; and 3) Agree to and sign the Code of Ethics and Standards of the College of Education's Educator Preparation Program before being fully or conditionally admitted into the program. Certification and degree plans that involve Texas Education Agency rules also require approval of the Certification Officer prior to becoming certified to teach. Students desiring to change from their initial choice of certification plan or degree plan must apply to, and be accepted by, the Program Area in which the new plan is offered. Any course waivers within the student's plan must be filed in the COE Certification Office.

Admission Requirements to Teacher Education and Full Admission to Graduate Program

- Candidate must hold a Baccalaureate Degree from an accredited institution of higher learning. Official transcripts must reflect an overall 2.75 GPA on a 4.0 scale or 2.75 in last 30 hours.
- Candidate must pass the TExES Pre-Admission Content Test (PACT).
- Candidate must meet all requirements for admission to the graduate program and submit the online graduate application at http://gradschool.tamucc.edu/application.html.
- Candidate must meet with the College of Education Certification Officer to develop a certification plan.

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 authorization will be granted to additional certification examinations.

The Pre-Admission Content Test (PACT) must be successfully completed prior to enrolling in the graduate program for an M.S. in Elementary or Secondary Education.

Initial certification in the following areas:

- Art EC-12
- Bilingual Generalist EC-6 (requires BILINGUAL TARGET LANGUAGE PROFICIENCY TEST)
- Computer Science 8-12
- English Language Arts and Reading 4-8
- English Language Arts and Reading 7-12
- Generalist EC-6
- History 7-12
- Life Science 7-12
- LOTE Spanish EC-12
- Mathematics 4-8
- Mathematics 7-12
- Music EC-12
- Physical Education EC-12
- Physical Science 6-12
- Science 4-8
- Social Studies 4-8
- Social Studies 7-12
- Special Education EC-12
- Speech 7-12
**Theatre EC-12**

**Probationary Certificates**

For those individuals who already hold a probationary certificate and need to extend that probationary certificate for a second and/or third year, the College of Education offers students the opportunity to retake 5393 EDUC 5393 and EDUC 5394 up to two additional times, for a total of 3 times per course; however the Internship I and Internship II courses will count only one time on the M.S. degree.

Upon completion of all required courses and passing of the required TExES EC-12 PPR exam, the student may apply to the Texas Education Agency for the initial teaching certification. Additional fees will be assessed by the Texas Education Agency and fingerprinting for background checks.

**Certification Testing Accountability**

The Texas Education Agency (TEA) requires competency exams for specified certification areas. TEA reports indicate that for completion year 2013, Texas A&M University-Corpus Christi is rated **accredited**.

**Graduate Programs and Courses**

A list of all graduate degrees offered by the COE may be found at the beginning of the "Education" page above. Provided below are details about the specific master's and doctoral programs, including information on admission requirements, degree requirements, related certificates, and other matters. Also provided below are descriptions of the courses offered by the degree programs and supporting disciplines. The following section is organized alphabetically by discipline.

**Bilingual/ESL/Multicultural**

Bilingual/ESL/Multicultural courses are designed for students pursuing supplemental certificates in Bilingual Education (EC-Grade 4) and English as a Second Language. Also, these courses are offered in support of graduate degree programs in fields such as Early Childhood Education and Curriculum and Instruction. For details concerning these programs, please see the list below of the catalog.

**Graduate Certificate**
Low Incidence Disability

Required Courses (9 sem. hrs.)

- SPED 5319 - Introduction to Low-Incidence Disabilities 3 sem. hrs.
- SPED 5320 - Application of Learning Principles 3 sem. hrs.
- SPED 5321 - Supporting Access for Students with Low-Incidence Disabilities 3 sem. hrs.

Counseling and Educational Psychology

Graduate Certificate

Graduate Certificate in Counseling Spanish-speaking Clients

The Graduate Certification Program addresses the critical shortage of trained professional counselors who serve the mental health needs of the rapidly growing Hispanic/Latino population. The certificate is designed for professional counselors to gain knowledge to conduct counseling sessions in Spanish. The coursework includes three online courses and two community internship experiences with online supervision.

Certificate Requirements: 15 Semester Credit Hours

Online courses:

- CNEP 5329 - Cultural Immersion: Diversity of Spanish Speakers 3 sem. hrs.
- CNEP 5330 - Introduction to Counseling Spanish-Speaking Clients 3 sem. hrs.
- CNEP 5331 - Strategies and Interventions for Spanish-Speaking Clients 3 sem. hrs.

Internship courses:

(Requiring 50 direct client hours each)

- CNEP 5332 - Spanish-Speaking Internship I 3 sem. hrs.
- CNEP 5333 - Spanish-Speaking Internship II 3 sem. hrs.

- Students who have an opportunity to travel may take the CNEP 5329 Cultural Immersion: Diversity of Spanish Speakers and CNEP 5333 Internship II courses in a study abroad format in a Spanish-speaking country when offered.
Admission Criteria

Must hold a Master's degree in Counseling or currently be in final semester of a Masters Counseling Program.

Master of Science

Counseling, MS

The Department of Counseling and Educational Psychology offers programs leading to the Master of Science degree in Counseling and the Doctor of Philosophy degree in Counselor Education. Programs in the Department of Counseling and Educational Psychology are accredited by The Council for the Accreditation of Counseling and Related Educational Programs (CACREP), 1001 North Fairfax Street Suite 210 Alexandria, VA 22314.

Mission Statement

The Department of Counseling and Educational Psychology at Texas A&M University-Corpus Christi, devoted to excellence in instruction, research, and service, prepares counselors representing diverse backgrounds and experiences to serve the educational and mental health needs in the global community. Students, from the South Texas region and beyond, are trained in core counseling courses to successfully work in school, community, and mental health settings. Graduates demonstrate a comprehensive in-depth knowledge base in counseling and the clinical skills that are necessary to be effective counselors. The Ph.D. program prepares future professors, scholars, and leaders in counseling and counselor education.

Program Description

The Master of Science in Counseling offers training in four major areas:

Clinical Mental Health Counseling (60 semester hours)
Texas Licensed Marriage and Family Therapist (60 semester hours)
School Counseling (60 semester hours)
Addictions Counseling (60 semester hours)

Upon completion of the degree program, students will have met Texas Licensed Professional Counselor (LPC) educational requirements. In addition, students seeking school counseling certification should consult with the school counselor program.
coordinator and the certification office on campus regarding current state certification requirements. Students who complete the marriage, couple, and family counseling emphasis will also meet Texas Licensed Marriage, Couple and Family Therapist (LMFT) educational requirements. Each students' personal and professional development is periodically reviewed by faculty. Students who fail to demonstrate basic knowledge, personal skills, communication skills, interpersonal skills, and/or counseling skills will be asked to seek remediation or may be dismissed from the program.

**Student Learning Outcomes**

Students will:

- Demonstrate a professional counselor identity
- Demonstrate the knowledge of the fundamental components of counseling
- Demonstrate adherence to professional ethical standards and the practice of advocacy
- Demonstrate effective counseling/clinical skills with diverse populations

**Admission Requirements**

Students are eligible to pursue graduate-level course work in Counseling if they meet COE graduate admission requirements as specified in the COE's Graduate Policies and Regulations section of this catalog.

The above minimum criteria, along with the following factors, are reviewed by the CNEP Department faculty selection committee in determining admissions.

**Deadline for Masters Student Applications are:**

- June 15 - fall semester
- October 15 - spring semester
- February 15 - summer semester

**Requirements**

- Undergraduate performance – GPA (3.0 in last 60 hours)
- Graduate level work with a B grade or higher
- Quality and relevancy of recommendations
- Counseling-related work experiences
- Interview Required
- Three letters of recommendation
• 500-700 word written essay, including one's personal/professional career plans, goals, and a statement indicating one's ability to work individually and in groups with diverse populations.

Students who do not meet the requirements for full admission into the department may be admitted on conditional status and take courses approved by the faculty. Required courses include EDFN 5301 (Introduction to Research), CNEP 5304 (Introduction to Counseling), and CNEP 5306 (Career Counseling). Students must earn a GPA of 3.0 on the courses taken in order to proceed to full admission.

**Academic Standards**

Students pursuing a Master of Science Degree in Counseling must maintain the following standards:

1. A cumulative GPA of 3.0 or better.
2. Only two courses with a grade of C can be applied to the degree.
3. No course with a grade below C will be applied toward the degree.
4. No grade below B in Practicum will be applied toward the degree.
5. Students may not proceed to practicum or internship unless they meet the standards in 1-3 above.
6. All requirements, including coursework at Texas A&M University—Corpus Christi and transfer credit coursework, must be completed within seven (7) calendar years from the date of initial enrollment in coursework.

**Fitness to Practice**

In addition to meeting or exceeding academic standards, students pursuing a Master of Science Degree in Counseling must meet fitness to practice standards that are assessed by faculty throughout the program. These standards include demonstration of emotional and mental fitness in their interaction with others as well as conformance with codes of professional counseling associations and of the State of Texas.

At regular intervals throughout the program and at any time a faculty member deems it advisable, students will be evaluated on the Professional Issues and Behavior Rating Scale. Students who fail to demonstrate fitness or conformance to appropriate codes may be asked to enter into a remediation plan in order to remain in the program. If a remediation plan is developed, students must demonstrate satisfactory remediation prior to being allowed to proceed toward graduation. Specific information concerning fitness to practice and codes to which students are expected to conform may be found in the Departmental Student Handbook.
Experiential Learning

Students in the Counseling and Educational Psychology Master of Science program will, in some coursework, be expected to participate in experiential learning that will involve some degree of self-exploration and self-reflection. Some training components will encourage personal growth and self-disclosure as part of the training process. While faculty members will make ethical and responsible efforts to ensure the well-being of students as well as professional judgment in designing such experiences, they recognize that personal growth, reflective practice, and self-exploration can generate discomfort. Students are encouraged to engage in personal counseling. In addition, students who are unable to make use of reasonable opportunities for personal growth and reflection or who are unwilling to participate in appropriate self-disclosure may be referred for departmental remediation processes. Students who have concerns about participating in such activities may wish to speak with a departmental advisor prior to entering the program.

Degree Requirements

Clinical Mental Health Counseling Emphasis (60 Semester Hours)

1. Institutional Requirement (3 Semester Hours)

   - EDFN 5301 - Introduction to Research 3 sem. hrs.

2. Core Courses (45 Semester Hours)

   - CNEP 5304 - Introduction to Counseling 3 sem. hrs.
   - CNEP 5306 - Career Counseling 3 sem. hrs.
   - CNEP 5308 - Counseling Theories 3 sem. hrs.
   - CNEP 5312 - Addictions Counseling 3 sem. hrs.
   - CNEP 5314 - Theory and Practice of Multicultural Counseling 3 sem. hrs.
   - CNEP 5327 - Ethical and Legal Issues in Counseling 3 sem. hrs.
   - CNEP 5328 - Abnormal Human Behavior 3 sem. hrs.
   - CNEP 5354 - Developmental Issues in Human Personality and Behavior 3 sem. hrs.
   - CNEP 5361 - Group Counseling 3 sem. hrs.
   - CNEP 5371 - Psychometrics 3 sem. hrs.
   - CNEP 5381 - Psychodiagnosis and Treatment Strategies 3 sem. hrs.
   - CNEP 5384 - The Counseling Process 3 sem. hrs.
   - CNEP 5397 - Practicum 3 sem. hrs.
   - CNEP 5698 - Internship 3 sem. hrs.
- CNEP 5698 - Internship II 3 sem. hrs.

3. Required Special Emphasis Courses (12 Semester Hours)

- CNEP 5319 - Introduction to Clinical Mental Health Counseling 3 sem. hrs.
- CNEP 5320 - Introduction to Marriage, Couple, and Family Counseling 3 sem. hrs.
- CNEP 5375 - Clinical Mental Health Counseling Strategies 3 sem. hrs.
- CNEP 5322 - Strategies in Family Counseling 3 sem. hrs. OR
- CNEP 5324 - Counseling Couples 3 sem. hrs.

Marriage, Couple and Family Counseling Emphasis (60 Semester Hours)

1. Institutional Requirement (3 Semester Hours)

- EDFN 5301 - Introduction to Research 3 sem. hrs.

2. Core Courses (45 Semester Hours)

- CNEP 5304 - Introduction to Counseling 3 sem. hrs.
- CNEP 5306 - Career Counseling 3 sem. hrs.
- CNEP 5308 - Counseling Theories 3 sem. hrs.
- CNEP 5312 - Addictions Counseling 3 sem. hrs.
- CNEP 5314 - Theory and Practice of Multicultural Counseling 3 sem. hrs.
- CNEP 5327 - Ethical and Legal Issues in Counseling 3 sem. hrs.
- CNEP 5328 - Abnormal Human Behavior 3 sem. hrs.
- CNEP 5354 - Developmental Issues in Human Personality and Behavior 3 sem. hrs.
- CNEP 5361 - Group Counseling 3 sem. hrs.
- CNEP 5371 - Psychometrics 3 sem. hrs.
- CNEP 5381 - Psychodiagnosis and Treatment Strategies 3 sem. hrs.
- CNEP 5384 - The Counseling Process 3 sem. hrs.
- CNEP 5397 - Practicum 3 sem. hrs.
- CNEP 5698 - Internship 3 sem. hrs.
- CNEP 5698 - Internship II 3 sem. hrs.

3. Required Special Emphasis Courses (12 Semester Hours)

- CNEP 5320 - Introduction to Marriage, Couple, and Family Counseling 3 sem. hrs.
- CNEP 5322 - Strategies in Family Counseling 3 sem. hrs.
• CNEP 5324 - Counseling Couples 3 sem. hrs.
• CNEP 5326 - Family Counseling with Children and Adolescents 3 sem. hrs.

School Counseling Emphasis (60 Semester Hours)

1. Institutional Requirement (3 Semester Hours)
   • EDFN 5301 - Introduction to Research 3 sem. hrs.

2. Core Courses (45 Semester Hours)
   • CNEP 5304 - Introduction to Counseling 3 sem. hrs.
   • CNEP 5306 - Career Counseling 3 sem. hrs.
   • CNEP 5308 - Counseling Theories 3 sem. hrs.
   • CNEP 5312 - Addictions Counseling 3 sem. hrs.
   • CNEP 5314 - Theory and Practice of Multicultural Counseling 3 sem. hrs.
   • CNEP 5327 - Ethical and Legal Issues in Counseling 3 sem. hrs.
   • CNEP 5328 - Abnormal Human Behavior 3 sem. hrs.
   • CNEP 5354 - Developmental Issues in Human Personality and Behavior 3 sem. hrs.
   • CNEP 5361 - Group Counseling 3 sem. hrs.
   • CNEP 5371 - Psychometrics 3 sem. hrs.
   • CNEP 5381 - Psychodiagnosis and Treatment Strategies 3 sem. hrs.
   • CNEP 5384 - The Counseling Process 3 sem. hrs.
   • CNEP 5397 - Practicum 3 sem. hrs.
   • CNEP 5698 - Internship 3 sem. hrs.
   • CNEP 5698 - Internship II 3 sem. hrs.

3. Required Special Emphasis Courses (12 Semester Hours)
   • CNEP 5315 - Responsive Services in Schools 3 sem. hrs.
   • CNEP 5316 - Developmental School Counseling 3 sem. hrs.
   • CNEP 5318 - Consultation in School Settings 3 sem. hrs.
   • CNEP 5326 - Family Counseling with Children and Adolescents 3 sem. hrs.

Addictions Counseling (60 Semester Hours)

1. Institutional Requirement (3 Semester Hours)
   • EDFN 5301 - Introduction to Research 3 sem. hrs.

2. Core Courses (45 Semester Hours)
- CNEP 5304 - Introduction to Counseling 3 sem. hrs.
- CNEP 5306 - Career Counseling 3 sem. hrs.
- CNEP 5308 - Counseling Theories 3 sem. hrs.
- CNEP 5312 - Addictions Counseling 3 sem. hrs.
- CNEP 5314 - Theory and Practice of Multicultural Counseling 3 sem. hrs.
- CNEP 5327 - Ethical and Legal Issues in Counseling 3 sem. hrs.
- CNEP 5328 - Abnormal Human Behavior 3 sem. hrs.
- CNEP 5354 - Developmental Issues in Human Personality and Behavior 3 sem. hrs.
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- CNEP 5381 - Psychodiagnosis and Treatment Strategies 3 sem. hrs.
- CNEP 5384 - The Counseling Process 3 sem. hrs.
- CNEP 5397 - Practicum 3 sem. hrs.
- CNEP 5698 - Internship 3 sem. hrs.
- CNEP 5698 - Internship II 3 sem. hrs.

3. Required Special Emphasis Courses (9 Semester Hours)

- CNEP 5313 - Theories and Techniques in Substance Abuse Counseling 3 sem. hrs.
- CNEP 5321 - Advanced Strategies in Process Addictions and Substance Abuse 3 sem. hrs.
- CNEP 5323 - Counseling for Holistic Wellness 3 sem. hrs.

4. Electives Courses (3 Semester Hours)

School Counselor Certification and Endorsement

Individuals holding a master's degree may satisfy the academic requirements for the School Counselor Certificate by completing the equivalent of the master's degree requirements in the School Counseling program that is required by CACREP. Endorsement includes a review and assessment by the faculty program coordinator and the COEHD certification officer. CNEP 5316 Developmental School Counseling is required before enrolling in the certification examination. Issuance of School Counselor certification by the Texas Education Agency requires Texas teaching certificate, two years of teaching experience, and passing the state licensure exam, TExES 152.

**Comprehensive Examination**
In addition to successful completion of all courses required for graduation, students are required to pass a comprehensive written examination. Students will take this examination while enrolled in practicum. All students should have completed pre-requisites prior to enrollment in Practicum.

**TExES Endorsement for non graduates of TAMUCC**

Educators who did not receive their master's degree in Counseling from this program and who wish to be endorsed to take the TExES examination must have their transcript evaluated by the Coordinator of the School Counseling Emphasis. Coursework will be compared to courses required in this program and the extent of their education and skills will be assessed. If the student's coursework is judged to be deficient in any area, including practicum and internship, the student will be required to take courses to address these deficiencies.

**Doctor of Philosophy**

**Counselor Education, PhD**

The Department of Counseling and Educational Psychology offers the Doctor of Philosophy degree in Counselor Education. The Ph.D. in Counselor Education is accredited by The Council for the Accreditation of Counseling and Related Educational Programs (CACREP), 1001 North Fairfax Street Suite 510 Alexandria, VA 22314.

**Mission Statement**

The Department of Counseling and Educational Psychology at Texas A&M University-Corpus Christi, devoted to excellence in instruction, research, and service, prepares counselors representing diverse backgrounds and experiences to serve the educational and mental health needs in the global community. Students, from the South Texas region and beyond, are trained in core counseling courses to successfully work in school, community, and mental health settings. Graduates demonstrate a comprehensive in-depth knowledge base in counseling and the clinical skills that are necessary to be effective counselors. The Ph.D. program prepares future professors, scholars, and leaders in counseling and counselor education.
Program Description

The doctoral program in Counselor Education at Texas A&M University-Corpus Christi is at the forefront in meeting current needs in training counselor educators. The mission of the doctoral program is to add depth and breadth in the preparation of counselor educators and counselors for leadership positions, regionally and nationally.

Student Learning Outcomes/Objectives

Students will demonstrate the knowledge and understanding of:

- Leadership roles in counselor education
- Advocacy methods, particularly with underserved populations
- Developing and teaching graduate level courses in counselor education
- Supervision theory, personal style of supervision, and the practice of supervision
- Evaluating counselor education programs through the use of CACREP standards
- Issues related to diversity, culture, multiculturalism, and multicultural competency
- Ethical and legal issues and codes of ethics in counseling
- Research paradigms and approaches used to conduct quality research investigations
- Designing research, both quantitative and qualitative
- Preparing and delivering scholarly presentations
- Writing for publication
- The identity of the counselor and counselor educator and the importance of ones' involvement in professional organizations
- The importance of wellness and counselor self care including strategies to enhance one's well being
- The practice of counseling, including theory, techniques, strategies and methods of evaluation

Admission Requirements

Students seeking admission to the doctoral program will need to complete the following:

1. An application data sheet.
2. A two-page professional goals statement.
3. Official transcripts of all undergraduate and graduate course work indicating the completion of requirements that are equal or equivalent to a master's degree accredited by the Council for Accreditation of Counseling and Related
Educational Programs (CACREP). (Students not having appropriate course work will be required to take additional courses prior to admission.)

4. The Graduate Record Examination (GRE). (Verbal and Quantitative scores.)

5. Three letters of recommendation. (Use forms provided by the Department.)
   (indication of fitness to practice)

6. A resume documenting work experience.

7. An interview by the admissions committee focusing on communication skills, self awareness, and potential for scholarship, leadership and advocacy.

Doctoral applicants should be aware that the Doctoral Admissions Committee begins their review of applicant information, including interviews, and makes acceptance decisions as early as January for the following fall enrollment. While the department will continue to accept applications until April 15, the priority deadline for submission of one's application is February 1. Early application is encouraged, since it allows students the best opportunity to secure one of the ten slots available, as well as scholarships, teaching assistantships, and financial aid.

Degree Requirements

The degree requirements enhance the leadership capabilities of professional counselors who serve or plan to serve in the role of counselor educators, directors of counseling and guidance programs, research specialists in counseling and the behavioral sciences, supervisors in counseling and mental health, and direct service providers. The Doctor of Philosophy Degree in Counselor Education is awarded in recognition of the attainment of independent and comprehensive scholarship in the field. The doctoral program consists of a minimum of four academic years of graduate-level preparation (including entry-level preparation), defined as eight semesters with a minimum of 96 semester hours of graduate-level credits required of all students in the program. To qualify for the degree, the student must meet the following specific requirements.

1. **Residence:** Two consecutive sessions of full-time enrollment are required, to be completed during the first year of the program as members of a cohort group.

2. **Recency of Credit:** Courses completed for a prerequisite master's degree do not need to meet the seven-year recency of credit rule for the doctoral program. All other courses that are part of the doctoral degree plan must abide by the seven-year rule on recency of credit.

3. **Entry-Level Courses:** Entry level coursework, equal/equivalent to master's degree requirements accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), is required.

4. **Doctoral Counseling Core Courses:** A minimum of 30 semester hours of doctoral-level core courses, including 6 semester hours of internship and 3 semester hours of practicum, are required.
5. **Additional Doctoral Courses**: Includes 15 semester hours of classes.

6. **Research Tools**: An extensive sequence of research courses is required, including a minimum of 27 hours of research methodology and statistics. Courses in quantitative and qualitative analysis are required. Included within this research component is a minimum of 9 hours of supervised dissertation.

7. **Supervised Advanced Practicum and Internship**: All doctoral students are required to successfully complete a clinical component of the program, as noted in #3 above. This includes an advanced practicum (CNEP 6395 – 3 semester hours/300 clock hours) and doctoral-level counseling internships (CNEP 6396, 3-semester-hour courses that students take twice for a total of 600 clock hours.) The 600-hour doctoral internship includes supervised experiences in clinical settings, teaching, and supervision. In addition, students are given the opportunity to participate in additional supervised practica or internships that are appropriate to their career objectives.

8. **Comprehensive Examination**: Doctoral students are required to successfully complete a written comprehensive examination toward the completion of all coursework.

9. **Dissertation and Final Examination**: Doctoral students are required to successfully complete a dissertation under the direction and supervision of their dissertation chair and committee members. There is a dissertation proposal defense at the time of one's proposal and a dissertation and final examination at the successful completion of one's dissertation.

See Course Descriptions for information on graduate courses for this program.

For Additional Information

**Website**: http://education.tamucc.edu/graduate_studies.html

**Campus Address**: Early Childhood Development Center, Room 242A; Phone (361) 825-3393

**Mailing Address**: Department of Counseling and Educational Psychology, Unit 5834
                College of Education
                Texas A&M University-Corpus Christi
                6300 Ocean Drive
                Corpus Christi, Texas 78412-5834

**Required Core Courses (30 SCH)**

- CNEP 6305 - Advanced Theories in Individual and Group Counseling **3 sem. hrs.**
- CNEP 6310 - Advanced Counseling Strategies **3 sem. hrs.**
- CNEP 6315 - Professional, Legal, and Ethical Issues 3 sem. hrs.
- CNEP 6320 - Advanced Appraisal Techniques and Psychometrics 3 sem. hrs.
- CNEP 6335 - Consultation Theory and Professional Advocacy 3 sem. hrs.
- CNEP 6350 - Advanced Clinical Supervision 3 sem. hrs.
- CNEP 6355 - Leadership, Pedagogy and Diversity in Counselor Education 3 sem. hrs.
- CNEP 6395 - Doctoral Practicum 3 sem. hrs.
- CNEP 6396 - Doctoral internship 3 sem. hrs.

Required Research Courses (15 SCH)

- CNEP 6370 - Advanced Quantitative Analysis 3 sem. hrs.
- CNEP 6372 - Seminar in Applications of Advanced Statistical Techniques and Evaluation Methodology 3 sem. hrs.
- CNEP 6384 - Qualitative Research Design 3 sem. hrs.
- CNEP 6397 - Research Seminar 3 sem. hrs.

Required Courses (15 SCH)

- CNEP 6319 - Applications of Family Counseling in School and Community Settings 3 sem. hrs.
- CNEP 6325 - Advanced Seminar in Career and Life Planning 3 sem. hrs.
- CNEP 6316 - Research, Writing and Publishing in a Multicultural Society 3 sem. hrs.
- CNEP 6345 - Knowledge Base Seminar in Counselor Education 3 sem. hrs.

Dissertation (9 SCH)

- CNEP 6398 - Dissertation in Progress 1-3 sem. hrs.

Educational Leadership, Curriculum and Instruction

Graduate Certificate

Principal Certificate
The Principal Certificate may be obtained beyond the master's degree upon completion of additional course work of 24 semester hours selected with the adviser's approval. The Principal Certificate also requires that the student obtain a passing score on the TExES examination for Principals, hold a Texas teaching certificate, and a minimum of two years of teaching experience.

The Master's Degree in Educational Administration from Texas A&M University-Corpus Christi also fulfills the TEA course requirements for the Principal's Certificate.

Certification Only

For students with a prior Master's Degree in Education who are seeking SBEC Certification as a Principal, the following conditions will apply:

The department advisor will review the previous master's degree coursework, practical work experience, and academic history of the student, and then prescribe 24 hours of coursework from the current list of required courses for the EDAD master's degree.

Courses that must be included in the 24 hours of EDAD coursework are:

- EDAD 5376 - Supervision of Teaching 3 sem. hrs. (if the student does not currently hold an Instructional Leadership Development Certificate) OR
- EDAD 6376 - Supervision of Teaching 3 sem. hrs. (if the student does not currently hold a Professional Development Appraisal System Certificate)

- EDAD 5377 - Teacher Appraisal System 3 sem. hrs. (if the student does not currently hold a Professional Development Appraisal System Certificate) OR
- EDAD 6377 - Teacher Appraisal System 3 sem. hrs. (if the student does not currently hold a Professional Development Appraisal System Certificate)

- EDAD 5378 - Application of Administrative Concepts 3 sem. hrs. OR
- EDAD 6378 - Application of Administrative Concepts 3 sem. hrs.

- EDAD 5399 - School Administration Practicum 3 sem. hrs. OR
- EDAD 6399 - School Administration Practicum 3 sem. hrs.

The Principal Certificate also requires the student obtain a passing score on the Principal's TExES examination.

Superintendent Certificate
Persons with a master's degree from an accredited college or University and a valid Principal Certificate may meet the requirements for the Professional Superintendency Certificate by successfully completing the following courses and obtaining a passing score on the Superintendent's TExES examination and hold a Texas principal certificate.

Required Courses

- EDAD 5361 - Current Topics: Focus On Law and Facilities 3 sem. hrs. OR
  EDAD 6361 - Current Topics: Focus on Law and Facilities 3 sem. hrs.

- EDAD 5367 - Public School Finance 3 sem. hrs. OR
  EDAD 6367 - Public School Finance 3 sem. hrs.

- EDAD 5368 - School Public Relations 3 sem. hrs. OR
  EDAD 6368 - School Public Relations 3 sem. hrs.

- EDAD 5369 - The School Superintendency 3 sem. hrs. OR
  EDAD 6369 - The School Superintendency 3 sem. hrs.

- EDAD 5398 - Practicum in the School Superintendency 3 sem. hrs. OR
  EDAD 6398 - Practicum in the School Superintendency 3 sem. hrs.

For Additional Information

Website: http://education.tamucc.edu/graduate_studies.html

Campus address: Faculty Center, Room 209; Phone (361) 825-2699

Mailing Address: Department of Educational Administration and Research, Unit 5818
College of Education
Texas A&M University-Corpus Christi
6300 Ocean Drive
Corpus Christi, Texas 78412-5818

Master of Science

Curriculum and Instruction, MS

Program Description
This master’s degree is designed for individuals who want to emphasize curriculum and instruction as they further their professional knowledge of education. They can focus on elementary and/or secondary levels in their programs. This program, which is interdisciplinary in nature, builds on the professional education and content courses taken at the undergraduate level. Within the interdisciplinary program, a focus will be developed in consultation with the advisor. This degree allows students to explore areas of interest across cognate areas.

**Student Learning Outcomes**

Students will:

- State and define the major components in the field of curriculum and instruction,
- Produce a comprehensive literature review on a major issue in the field of curriculum theory or instruction, and
- Complete an action-based or historically-based quantitative or qualitative study on an issue in curriculum and instruction and defend it at a public gathering with at least three faculty members present.

**Admission Requirements**

Students are eligible to pursue graduate-level course work in Curriculum and Instruction if they meet COE graduate admission requirements as specified in the COE’s Graduate Policies and Regulations section of this catalog. Individuals who do not have teaching experience will be required to take additional hours in education beyond those already required for the masters’ program. Individuals who have not taught in North American schools are required to take EDUC 5305 and EDUC 5306 as leveling classes before being fully admitted to the program.

**Degree Requirements**

1. Specialization Area (15 semester hours)

   - Interdisciplinary (courses chosen with advisor’s approval).

2. Institutional Master’s Degree Requirements (6 semester hours)

   - EDFN 5301 - Introduction to Research 3 sem. hrs.
   - ERST 5302 - Studies in Equality of Educational Opportunities 3 sem. hrs.

3. Curriculum and Instruction (15 semester hours)
• EDCI 5340 - Instructional Techniques for Effective Teaching 3 sem. hrs.
• EDCI 5361 - Educational Assessment 3 sem. hrs.
• EDCI 5362 - Theoretical Bases for Curriculum 3 sem. hrs.
• READ 5369 - Content Area Reading 3 sem. hrs.
• EDCI 5389 - Curriculum and instruction Research Seminar 3 sem. hrs.

Capstone Experience

All students are required to take EDCI 5389 and complete a capstone experience within this course. Candidates for this degree must successfully present and defend a capstone project to a faculty panel.

For Additional Information

Website: http://education.tamucc.edu/graduate_studies.html

Campus Address:
Early Childhood Development Center, Room 219J; Phone (361) 825-2417
faye.bruun@tamucc.edu

Mailing Address: Department of Educational Leadership, Curriculum & Instruction, Unit 5834
College of Education
Texas A&M University-Corpus Christi
6300 Ocean Drive
Corpus Christi, Texas 78412-5834

**Educational Administration, MS**

**Program Description**

The Master's Program in Educational Administration is a leader in preparing PreK-20 school administrators throughout South Texas, nationwide, and internationally. This learner-centered program prepares graduates to meet the demanding challenges of school leadership positions such as campus principal, campus assistant principal, and central office administration.

**Benefits**
The Master's in Educational Administration program provides opportunities for students to develop in-depth understanding about leadership roles and responsibilities, working with community at-large, policy administration, and contemporary educational issues. Graduates of the program are prepared to advocate, nurture and sustain a campus culture and instructional program conducive to student learning and faculty professional growth.

**Student Learning Outcomes**

- The learning experiences in the ethics of leadership prepare the graduates to model and promote the highest standard of conduct, ethical principles, and integrity in decision-making, actions, and behaviors.
- The learning experiences in the development of campus culture prepare the graduates to create a campus culture that sets high expectations, promotes learning, and provides intellectual stimulation for self, students, and staff.
- The learning experiences in human resources leadership prepare students to collaboratively develop, implement, and revise a comprehensive and on-going plan for professional development of campus staff which addresses staff needs and aligns professional development with identified goals, to further develop necessary knowledge and skills, and to model lifelong learning.
- The learning experiences in communication and community relations prepare students to demonstrate effective communication and collaboration that will establish partnerships with parents, businesses, and other groups in the community to strengthen programs and support campus goals.
- The learning experiences in leadership and management prepare students to implement appropriate management techniques and group processes to define roles, assign functions, delegate authority, and determine accountability for campus goal attainment through all school operations and programs.
- The learning experiences in curriculum planning and development prepare students to use emerging issues, occupational and economic trends, demographic data, student learning data, motivation theory, learning theory, legal requirements, and other information as a basis for campus curriculum planning.
- The learning experiences in instructional leadership prepare students to facilitate the development of a campus learning organization that facilitates the development, implementation, evaluation, and refinement of student activity programs to fulfill academic, developmental, social, and cultural needs and Acquire and allocate sufficient instructional resources on the campus in the most equitable manner to support and enhance student learning.

**Admission Requirements**
All applicants must meet the general graduate admission requirements of the University.

1. Applicants must have a minimum undergraduate GPA of 3.00 and a graduate GPA of 3.00 on the last 60 semester credit hours of undergraduate work and any previous work in graduate school.

2. Applicants must complete the goals statement as required on the application form. The statement should be between 300 to 400 words, and should include information about their reasons for pursuing a graduate degree in Educational Administration and certification in the principalship. Applications will be evaluated by department faculty holistically on a scale of 1 - 4. Only students scoring a 3 or 4 will be admitted to the program.

3. Students who have submitted all required application documents, but who do not meet the minimum GPA of 3.00, may enroll in a conditional status in courses approved by the chair of the department. (See "Conditional Status " in the "Admission " section of the catalog.) Such students must achieve not less than a 3.00 GPA in the specified courses. After completing at least 6 semester credit hours with a GPA of not less than 3.00 at this University, applicants may continue the application process into the program. Graduate students on conditional status can normally take no more than 6 graduate hours per semester until the conditional status is removed. However, students admitted conditionally in the department of Counseling and Educational Psychology may take 9 semester credit hours per semester with the approval of the Department. If students fail to meet the conditions stipulated by the department to which they were conditionally admitted, they will be suspended from the College of Education for at least one year. During this suspension, they cannot take any graduate courses in the College of Education. After a year's suspension, students may reapply for the program of their choice. No more than 9 semester hours of courses taken at this University or any other University while in this conditional status may be applied to this specific graduate degree at Texas A&M University-Corpus Christi. After the student is admitted, graduate-level certification plans and/or Master of Science degree plans must be filed in the COE Certification Office through the faculty advisor. A student becomes an official certification-seeking or degree-seeking student when the plans are approved by the faculty advisor and the academic advisor. Certification and degree plans that involve TEA/State Board for Educator Certification rules also require approval of the certification officer. In addition to successful completion of all courses, to be recommended for principal certification, students must pass the TExES examination for the principal and provide the certification officer with a teacher service record with a minimum of two years teaching experience.
Degree Requirements

Required Core Courses (12 semester hours)

- EDAD 5304 - Introduction to the Principalship 3 sem. hrs.
- EDAD 5366 - Personnel Management 3 sem. hrs.
- EDAD 5376 - Supervision of Teaching 3 sem. hrs.
- EDAD 5377 - Teacher Appraisal System 3 sem. hrs.

1. General Administrative Competencies (12 semester hours)

- EDCI 5340 - Instructional Techniques for Effective Teaching 3 sem. hrs.
- EDAD 5363 - Public School Law 3 sem. hrs.
- EDAD 5378 - Application of Administrative Concepts 3 sem. hrs.
- EDAD 5399 - School Administration Practicum 3 sem. hrs.

2. Specialized Preparation (6 semester hours) (select two courses from the following)

- EDAD 5360 - Organizational Theory 3 sem. hrs.
- EDAD 5364 - Management of Educational Programs and Special Units 3 sem. hrs.
- EDAD 5374 - Campus Finance and Budgeting 3 sem. hrs.
- EDAD 5375 - Communication and Community Relations 3 sem. hrs.
- IDET 5380 - Educational Technology for Administrators 3 sem. hrs.

3. College Requirements (6 semester hours)

- EDFN 5301 - Introduction to Research 3 sem. hrs.
- ERST 5302 - Studies in Equality of Educational Opportunities 3 sem. hrs.
  (Must be included if the student has not completed an upper-division course in multicultural education)

Comprehensive Examination

All candidates for the Master's degree in Educational Administration are required to successfully complete a departmental comprehensive examination. The comprehensive examination is scheduled during the semester in which the student is enrolled in the last course(s) needed to complete the degree and will be offered three times per year (Fall, Spring, and Summer I).
A candidate may not retake the comprehensive examination more than twice without program faculty approval and may not retake the examination before the next regularly scheduled examination.

For Additional Information

**Website:** http://education.tamucc.edu/graduate_studies.html

**Campus address:** Faculty Center, Room 209; Phone (361) 825-3702

Department of Educational Administration and Research, Unit 5818
College of Education

**Mailing Address:** Texas A&M University-Corpus Christi
6300 Ocean Drive
Corpus Christi, Texas 78412-5818

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**Reading, MS**

**Program Description**

The Master of Science degree in Reading has been designed for the student to earn a master's degree with the option of applying coursework to two additional certifications: Reading Specialist and/or Master Reading Teacher. In order to receive additional certificates, the students must also successfully complete the TexES or the Master Reading Teacher test as required by the state and have two years of teaching experience. Students also have the option of choosing a cognate area of study in lieu of the certification options. Additionally, students who have not completed a graduate or undergraduate course in children's literature within the past three years must take READ 5381.

Graduates of the Master of Science in Reading should be able to:

- demonstrate an ability to work with students of differing abilities in literacy.
- describe the major components in a comprehensive reading program, and
- conduct and present a project relevant to their professional needs.

**Admission Requirements**

Students are eligible to pursue graduate-level course work in Reading if they meet COE graduate admission requirements as specified in the COE's Graduate Policies and Regulations section of this catalog.
Degree Requirements

The requirements for the Reading master’s degree are 36 semester credit hours, including 24 semester hours in Reading and an additional 3-credit research course. The additional 9 semester hours needed to complete the Reading master’s degree depend on the choices a student makes regarding certification (i.e., Reading Specialist and/or Master Reading Teacher). The student choosing to receive a master’s degree in Reading with a cognate in another area of specialization should consult with appropriate department chairs for requirements of 9 semester hours. The student choosing to receive a Reading Specialist Certificate and/or Master Reading Teacher Certificate should consult with appropriate Reading faculty.

1. Foundation Course (3 semester hours)
   - EDFN 5301 - Introduction to Research 3 sem. hrs.

2. Reading Requirements (24 semester hours)
   - READ 5345 - Stages and Standards for Reading Development 3 sem. hrs.
   - READ 5350 - Multicultural Literacy 3 sem. hrs.
   - READ 5371 - Diagnosis and Correction of Reading Problems 3 sem. hrs.
   - READ 5392 - Psycho-sociolinguistics and Reading 3 sem. hrs.
   - ** READ 5395 - Leadership and Literacy 3 sem. hrs.
   - READ 5697 - Reading Practicum 6 sem. hrs.
   - READ 5396 - Literacy Research Seminar 3 sem. hrs.

9 hours of Electives can be taken from #3 or #4

3. Electives for Reading Specialist Certificate and Master Reading Teacher (9 semester hours)
   - READ 5381 - Exploring the Literature of Children and Adolescents 3 sem. hrs.
   - READ 5310 - Emergent Literacy 3 sem. hrs.
   - READ 5314 - College/Adult Literacy 3 sem. hrs.
   - READ 5346 - Trends and issues in Literacy 3 sem. hrs.
   - READ 5352 - Theoretical Models of Reading and Writing 3 sem. hrs.
   - READ 5355 - Teaching Literacy through Technology 3 sem. hrs.
   - * READ 5369 - Content Area Reading 3 sem. hrs.
   - ** READ 5372 - Classroom Assessment and instruction 3 sem. hrs.
   - READ 5393 - Literacy Curriculum and Supervision 3 sem. hrs.
   - READ 5390 - Professional Seminar: Special Topics in Literacy 3 sem. hrs.
Note:

*Required for Reading Specialist

**Required for Master Reading Teacher

Capstone Experience

All students will engage in a capstone experience within READ 5396 - Literacy Research Seminar.

For Additional Information

**Website:** http://education.tamu.edu/graduate_studies.html

**Campus Address:** Early Childhood Development Center, Room 219F; Phone (361) 825-3336

**Mailing Address:** Department of Educational Leadership, Curriculum & Instruction, Unit 5834

Doctor of Philosophy

**Curriculum and Instruction, PhD**

(Literary Studies and Curriculum Studies)

The doctorate in Curriculum and Instruction is a progressive and evidence-based program that offers students the choice of two tracks: Literacy Studies and Curriculum Studies. The 60-semester credit-hour program prepares graduates for leadership roles as professors, as researchers, and as administrators of educational programs in Texas and the nation in Texas and the nation. Required are 12 semester credit hours of core curriculum courses, 18 semester credit hours in research courses, 24 semester credit hours in the curriculum emphasis, and 6 semester credit hours allocated for the completion of the dissertation.
Student Learning Outcomes

Students will:

- demonstrate a command of the field of your area of expertise.
- demonstrate the ability to conduct original research.
- demonstrate a command of the field of Curriculum and Instruction.

Admission Requirements

Applicants must meet all conditions for graduate admission to the College of Education, including a minimum grade point average of 3.00, as specified earlier in this catalog. Additional requirements for admission to the program are described below.

Admission requires approval by a Curriculum and Instruction admission committee. Criteria for admission include the following:

1. a Graduate Record Examination score (GRE) or a Miller's Analogy Test (MAT) (taken within the last five years),
2. a minimum of three years teaching experience
3. a minimum of four letters of recommendation on official letterhead from people testifying to the candidate's ability to do doctoral-level work, and
4. official transcripts of all undergraduate and graduate coursework indicating completion of a master's degree in a relevant field from a regionally accredited University.

After an applicant's required materials are received, an applicant will be invited for personal interviews, presentations, and a writing exercise. An admission committee will consider all qualifications, including professional and personal qualifications, in making admission decisions. The committee may admit persons with lower levels of the above indicators of academic history if (a) professional and personal qualifications are unusually strong and (b) the student demonstrates a high degree of proficiency on a writing sample administered and scored by the admission committee. For the Literacy Studies track, individuals who do not have prior graduate work in Reading/Literacy will have course requirements in addition to the 60-hour requirement. If accepted into the program, these students will be required to take up to 15 additional hours besides those already required for the curriculum emphasis in the doctoral program.

Degree Requirements
The Doctor of Philosophy Degree in Curriculum and Instruction is awarded in recognition of the attainment of independent and comprehensive scholarship in the field. To qualify for the degree, the student must meet the following specific requirements.

1. **Residence:** Three consecutive sessions (summer, fall, spring; fall, spring, summer; etc.) of 6 semester hours enrollment are required, to be completed during the course of the program. The seven year rule on recency of credit will apply.

2. **Coursework:** Sixty semester hours of coursework are required, inclusive of dissertation courses. With departmental approval, up to 12 semester hours for the degree plan may be transferred from another regionally accredited University. The transfer credits must be post master's-level graduate coursework, must be less than seven years old at the time of conferral of the Texas A&M University-Corpus Christi degree, and may not have been included on degree plans for any other degree. The student must have been enrolled as a terminal degree student when coursework was completed. Likewise, up to one-fourth of the credits for the degree plan may be transferred from post master's-level work taken at Texas A&M University-Corpus Christi. The program faculty and the Graduate Dean must approve the transfer credits. The degree requires the following:
   - 12 hours in core curriculum
   - 18 hours in research tools
   - 9 hours Curriculum and Literacy required courses
   - Curriculum Studies emphasis (15 minimum to be chosen with advisor)
   - Literacy Studies emphasis (15 minimum to be chosen with advisor)
   - A minimum of 6 hours of Dissertation in Progress (repeated as necessary)

1. **Candidacy/Comprehensive Examinations:** Comprehensive examinations will be scheduled at such time as the student’s advisor judges that the student is ready, but not before the student has completed all the required core curriculum, specialization, reading, and research tools courses. Admission to candidacy for the degree requires passing written comprehensive examination and when judged appropriate by program faculty, an oral examination.

2. **Dissertation and Final Examination:** The dissertation is developed under the supervision of a dissertation advisor, who serves as chair of the dissertation committee. The committee is composed of at least four members including the chair. There will be a final oral examination that will focus on, but is not limited to, the dissertation work.

**Courses**

1. **Curriculum Core Classes (12 SCH)**
   - EDCI 6301 - Philosophy of Education **3 sem. hrs.**
• EDCI 6324 - Curriculum Theory 3 sem. hrs.
• EDCI 6303 - Issues in Curriculum and instruction 3 sem. hrs.
• EDCI 6390 - Special Topics in Curriculum 3 sem. hrs.

2. Research Tools (18 SCH)

• EDLD 6333 - Applied Statistics 1 3 sem. hrs.
• EDLD 6392 - Applied Statistics 2 3 sem. hrs.
• EDLD 6384 - Qualitative Research Methods 3 sem. hrs.
• EDLD 6385 - Advanced Data Analysis in Qualitative Methods 3 sem. hrs.
• EDCI 6335 - Curriculum Research Design 3 sem. hrs.
• EDCI 6397 - Seminar On Dissertation Research 3 sem. hrs.

3. Literacy Emphasis (24 SCH)

• READ 6352 - Theoretical Bases for Literacy 3 sem. hrs.
• READ 6380 - Advanced Studies in Literature for Children and Adolescents 3 sem. hrs.
• READ 6391 - Evaluation of Literacy Methods, Materials, and Assessment 3 sem. hrs.
• READ 6398 - Advanced Reading Supervision Practicum 3 sem. hrs.
• READ 6399 - Advanced Literacy Research Seminar 3 sem. hrs.
• READ 6390 - Special Topics in Reading 3 sem. hrs.

For Additional Information

Website:       http://education.tamucc.edu/graduate_studies.html
Mailing Address: Department of Educational Leadership, Curriculum & Instruction
Doctor of Education

Educational Leadership, Ed.D.

Program Description

The Doctor of Education Degree (Ed.D.) in Educational Leadership is a scholar-practitioner degree designed for leaders on all educational levels. In support of institutional and college mission statements, the educational leadership program seeks to mediate formal knowledge and theory through disciplined inquiry and professional practice. It is expected that graduates of the program use scholarly inquiry and practice to guide decisions on all levels of educational activity.

The program seeks to build scholarly capacity in our students, allowing them to investigate and deal with social issues of equity and democracy in their professional settings. As a scholar-practitioner program, faculty promote and maintain the importance of the rigor or research and data driven decisions for our students, which is reflective of local, regional, state, national, and global concerns. The Ed.D. in Educational Leadership includes a research core and dissertation requirement to address the centrality of data for one's job, career, and advancement of education. The educational leadership program seeks to prepare scholar-practitioners through a combination of academic endeavors, professional experience, and prior knowledge as a basis for effective change.

Student Learning Outcomes

At the completion of the program, students should be able to demonstrate

- Knowledge and wisdom of educational theories and frameworks through all courses;
• Practice in action through cognate courses relevant to one's specific domain in his or her profession;
• Learned and practiced research through research tools courses, and;
• Creation of new knowledge through a five-chapter, research-based, dissertation.

Joint Program Status

The program is a joint doctorate in Educational Leadership between Texas A&M-Corpus Christi and Texas A&M-Kingsville. Students may attend classes on both campuses. Professors from both universities may serve as instructors and advisors for participants in the program.

Admission Requirements

Admission requires approval of an Educational Leadership admissions committee. Criteria for admission include the following:

1. a Graduate Record Exam (GRE) score or Miller Analogies Test (MAT) score within the last five years
2. an undergraduate grade point average of 3.00 or above
3. a graduate grade point average of 3.50 or above
4. official transcripts of all undergraduate and graduate coursework indicating the completing of a master's degree in a relevant field.

Selected applicants will be invited to campus for a personal interview with the Educational Leadership admissions committee and a writing exercise. The committee will consider all qualifications, including professional and personal qualifications, in making admission decisions. The committee may admit applicants with lower levels of the above indicators of academic history if (a) professional and personal qualifications are unusually strong and (b) a high degree of proficiency on the writing exercise. Individuals denied admission three times are ineligible to reapply.

Degree Requirements
The Doctor of Education Degree in Educational Leadership is awarded in recognition of the attainment of independent and comprehensive scholarship in the field. To qualify for the degree, the student must meet the following requirements:

1. **Residence**: Three consecutive terms of enrollment in six semester credit hours must be completed at some point in the program (e.g., summer, fall, spring). The time to completion must be in accordance with the standards set forth by the College of Graduate Studies.

2. **Coursework**: Sixty-nine semester hours of coursework are required, inclusive of the dissertation courses. Up to one-fourth of the credits for the degree plan may be transferred from another regionally accredited college or University. The transfer credit must be post master's level graduate coursework, must not exceed ten years at the time of conferral of the Texas A&M University-Corpus Christi degree, and may not have been applied to a degree conferred. Likewise, up to one-fourth of the credits for the degree plan may be transferred from post master's level work taken at Texas A&M University-Corpus Christi. The transfer credits must be approved by the program faculty (normally the advisor). The degree requires the following:

<table>
<thead>
<tr>
<th>Education Cognate</th>
<th>Open Cognate</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 credit hours in core courses</td>
<td>27 credit hours in core courses</td>
</tr>
<tr>
<td>18 credits in educational leadership</td>
<td>15 credits in an approved subject area</td>
</tr>
<tr>
<td>6 credits in electives</td>
<td>9 credits in electives in educational leadership</td>
</tr>
<tr>
<td>15 Research Tools</td>
<td>15 Research Tools</td>
</tr>
<tr>
<td>3-6 credits in dissertation</td>
<td>3-6 credits in dissertation</td>
</tr>
</tbody>
</table>

All courses applied to the doctoral degree plan must have a grade of B or higher.

3. **Candidacy/Comprehensive Examinations**: Students are eligible for comprehensive exams when 27 credit hours in the core leadership courses and 15 credit hours in research
tools are complete with grades of B or better. Advancement to candidacy for the degree requires passing both written and oral comprehensive examinations.

4. Dissertation and Defense: The dissertation is developed under the supervision of a dissertation adviser, who serves as Chair of the dissertation committee. The committee is composed of four members, including the Chair. Students must pass an oral defense of the dissertation.

Courses

1. Required Core Courses (27 SCH)

- EDLD 6301 - Philosophy of Education 3 sem. hrs.
- EDLD 6303 - The Politics of Education 3 sem. hrs.
- EDLD 6311 - Contemporary Theories of Educational Leadership 3 sem. hrs.
- EDLD 6312 - Clinical Leadership Laboratory 3 sem. hrs.
- EDLD 6313 - Policy Development and Decision-making 3 sem. hrs.
- EDLD 6324 - Curriculum Theory 3 sem. hrs.
- EDLD 6331 - Educational innovations 3 sem. hrs.
- EDLD 6342 - Community Leadership Development 1-3 sem. hrs.

2. Research Tools (15 SCH)

- EDLD 6333 - Applied Statistics 1 3 sem. hrs.
- EDLD 6335 - Quantitative Research Methods 3 sem. hrs.
- EDLD 6384 - Qualitative Research Methods 3 sem. hrs.
- EDLD 6397 - Dissertation Research 3 sem. hrs.

3. Education Cognate (18 SCH)

To be decided upon with a Faculty Advisor.

4. Open Specialization Cognate (15 SCH)

To be decided upon with a Faculty Advisor.
5. Dissertation (3-6 SCH)

- EDLD 6398 - Dissertation 3 sem. hrs.

For Additional Information

**Website:** http://education.tamucc.edu/graduate_studies.html

**Campus Address:** Faculty Center, Room 209; Phone (361) 825-3368

**Mailing Address:**
Department of Educational Leadership, Curriculum &
Instruction
Unit 5818
College of Education
Texas A&M University-Corpus Christi
6300 Ocean Drive
Corpus Christi, Texas 78412-5818

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**Kinesiology and Military Science**

**Master of Science**

**Kinesiology, MS**

**Mission**

The mission of the Master of Science in Kinesiology with an emphasis in Sport Science is to educate knowledgeable professionals with a level of skill and ability significantly beyond that of the baccalaureate degrees in kinesiology/sport science. The depth and breadth of this knowledge, specialized proficiencies, development of independent creativity, and involvement in high impact/hands-on experiences in research and practice provided in this program will allow graduates to practice in and contribute to the profession of sport science at a higher level.

**Program Description and Purpose**
The Master of Science in Kinesiology with an emphasis in Sport Science is designed to prepare professionals in the multi-faceted disciplines of athletic performance, health, fitness and quality of life. These include, but are not limited to the application of and in-depth study in biomechanics, exercise physiology, leadership/management of sport, motor performance, nutrition, assessment of sport performance, sport psychology, and strength & conditioning. Thus a major purpose of this program is to bridge the gap between science and sports as well as preparation for an advanced research (e.g., Ph.D.).

Our program is exemplified by a vibrant community of scholarly and collaborative colleagues that are nationally and internationally recognized in the sport science discipline. Students have two degree options: 1) Non-Thesis; or 2) Thesis. In the non-thesis option a student has two choices of capstone experiences: 1) Research Project; or 2) Comprehensive Exams. Please see the course descriptions of the Thesis and Research Project for a full description of the expectations of these options.

**Customizing the Program**

The program is specifically designed in a sport science vein, meaning program goals (Student Learning Outcomes), how specific courses are tailored and delivered, and the majority of the research of graduate faculty focus on the science behind improving athletic/sport performance. However, there is enough flexibility in the program design for a student to customize their degree to fit their career goals. Regardless of thesis or non-thesis option students have an array of elective kinesiology and non-kinesiology course options to choose from to personalize their degree. This may be further augmented by choices of an internship, independent study, and the topic and designed of their research if they chose a thesis or non-thesis (research project) route. Thus, a student may modify their education, for example, toward exercise science, health, physical education, tactical strength & conditioning, sport management/administration and others upon advisor approval.

**Careers**

This program prepares individuals for vocations as sport scientists and strength & conditioning coaches/trainers. The degree design also contributes to the professional development of tactical strength & conditioning trainers, certified physical education teachers, public school coaches as well as managers of sport. Finally, the program also prepares professionals for sport science certifications from professional organizations such as the National Strength & Conditioning Association, American College of Sports Medicine, and other professional agencies.
Impact

The emphasis of sport science in this degree is distinctive in that conceptually the program will train individuals to use human biology (e.g. anatomy, physiology) to grasp a greater understanding of how to improve sport/human performance through applied research and practice. The department also envisions that students, during their degree pursuit and after graduation, will contribute to a growing national demand to academically prepare sport scientists through research and education on improving athletic performance in response to the explosion of popularity of sports nationally and internationally.

The program is facilitated in the Sport Science Research Labs (Exercise Physiology; Biomechanics; Motor Learning/Development; and Athletic Training) in Island Hall. These labs have state of the art equipment/hardware/software that students use in class and with their research if applicable. Beyond the ability to learn and conduct research in these labs students will have the opportunity to be involved in clinics, continuing education programs, and sport science activities that are facilitated by the Department of Kinesiology in Island Hall. These include those that focus on improvement of athletic performance, inhibitors of sport performance, and the impact of disease and disability/injury on health and well-being as well as the influence on sport performance. Thus, the research generated via this program could easily uncover discoveries that would impact the quality of life of athletes and the general public.

Student Learning Outcomes

Students will:

- Demonstrate theoretical and practical knowledge in the field of sport science.
- Demonstrate knowledge and professional leadership skills in relation to the field of sport science.
- Produce transformational sport science and sport performance research by applying the principles of the scientific method and statistics to collect, analyze, and interpret sport science-related data.
- Apply the principles of sport physiology and motor development in creating appropriate strength and movement programs for people of all ages.
- Apply selected principles of psychology and sociology to improve human performance.

Admission Requirements
Students are eligible to pursue graduate-level course work in Kinesiology if they meet the University and COE graduate admission requirements as specified in the Graduate Policies and Procedures section of this catalog. Additional kinesiology requirements and restrictions are listed below:

1. Applicants whose undergraduate major or minor is not Kinesiology and/or do not have equivalent undergraduate coursework are required to take undergraduate prerequisite courses for KINE 5311 - Statistics in Kinesiology, KINE 5312 - Sport Physiology, and KINE 5327 - Sport Biomechanics.

2. If an applicant's GPA is below 3.0 in their last sixty hours, they may be admitted under "conditional" status. In such cases, the department will follow the procedures that are outlined in the catalog for the University and the College of Education.

The kinesiology graduate program committee evaluates all applications and makes admission decisions.

**Transfer of Graduate Credits**

No more than nine hours of graduate level study may be transferred from another institution to a student's degree plan. These hours must be from accredited institutions of higher education and recommended by the Kinesiology program graduate committee. No course with a grade of less than 'B' will be accepted as transfer credit.

**Academic Standards**

Students pursuing a Master of Science Degree in Kinesiology must maintain the following standards:

1. A cumulative GPA of 3.0 or better.
2. Only two courses with grades of C can be applied to the degree.
3. No course with a grade below a C will be applied toward a degree.
4. All requirements, including coursework at Texas A&M University–Corpus Christi and transfer credit coursework, must be completed within seven (7) calendar years from the date of initial enrollment in coursework.

**Course Sequencing**

Students must take KINE 5307 - Research Design in Kinesiology and KINE 5311 - Statistics in Kinesiology prior to the Capstone Experience - Graduate Research Project.
Degree Requirements

Non-Thesis Graduate Project - 36 semester hours - (33 hours coursework + 3 hours Graduate Research Project)

1. Kinesiology Core Courses (15 semester hours)
   - KINE 5307 - Research Design in Kinesiology 3 sem. hrs.
   - KINE 5308 - Leadership in Kinesiology 3 sem. hrs.
   - KINE 5311 - Statistics in Kinesiology 3 sem. hrs.
   - KINE 5312 - Sport Physiology 3 sem. hrs.
   - KINE 5327 - Sport Biomechanics 3 sem. hrs.

2. Required Courses (9 semester hours)
   Choose at least 3 from the list below. Additional courses can be utilized as applied electives below.
   - KINE 5306 - Sport Nutrition 3 sem. hrs.
   - KINE 5313 - Assessment and Evaluation of Athletic Performance 3 sem. hrs.
   - KINE 5314 - Principles of Strength and Conditioning 3 sem. hrs.
   - KINE 5325 - Program Design for Resistance Training 3 sem. hrs.
   - KINE 5338 - Motor Development in Sport 3 sem. hrs.
   - KINE 5340 - Sport Psychology 3 sem. hrs.
   - KINE 5390 - Professional Seminar 1-3 sem. hrs.
   - KINE 5394 - Professional Field Experience 3 sem. hrs.

3. Applied Electives (0-9 semester hours)
   Graduate-level courses to be selected with permission of faculty advisor. Choices may include, but are not limited to the Kinesiology courses listed above.

4. Capstone Experience - Graduate Research Project in Kinesiology (3 semester hours)
   The research project option is designed for students that want to gain more knowledge about a specific topic area through the scientific process that goes well beyond what they can achieve through an academic course. The research project is a less intense version of the thesis and more of a pilot study. The project should be completed in one semester with the possibility of more time depending upon the student's topic and design. This is an involved process and the final product includes: 1) Journal Abstract; 2) Journal
Manuscript (choice of journal is decided by project chair); 3) Poster Presentation; and 4) PowerPoint Presentation (Defense).

- KINE 5397 - Graduate Research Project in Kinesiology 3 sem. hrs.

Non-Thesis Comprehensive Exam - 36 semester hours (36 hours coursework + comprehensive exam)

1. Kinesiology Core Courses (15 semester hours)

- KINE 5307 - Research Design in Kinesiology 3 sem. hrs.
- KINE 5308 - Leadership in Kinesiology 3 sem. hrs.
- KINE 5311 - Statistics in Kinesiology 3 sem. hrs.
- KINE 5312 - Sport Physiology 3 sem. hrs.
- KINE 5327 - Sport Biomechanics 3 sem. hrs.

2. Required Courses (12 semester hours)

Choose at least 4 from the list below. Additional courses can be utilized as applied electives below.

- KINE 5306 - Sport Nutrition 3 sem. hrs.
- KINE 5313 - Assessment and Evaluation of Athletic Performance 3 sem. hrs.
- KINE 5314 - Principles of Strength and Conditioning 3 sem. hrs.
- KINE 5325 - Program Design for Resistance Training 3 sem. hrs.
- KINE 5338 - Motor Development in Sport 3 sem. hrs.
- KINE 5340 - Sport Psychology 3 sem. hrs.
- KINE 5390 - Professional Seminar 1-3 sem. hrs.
- KINE 5394 - Professional Field Experience 3 sem. hrs.

3. Applied Electives (0-9 semester hours)

Graduate-level courses to be selected with permission of faculty advisor. Choices may include, but are not limited to the Kinesiology courses listed above.

Thesis Option 36 semester hours - (30 hours of coursework + 6 hours of Thesis)

Thesis option requires departmental approval.

1. Kinesiology Core Courses (15 semester hours)
2. Required Courses (9 semester hours)

Choose at least 3 from the list below. Additional courses can be utilized as applied electives below.

- KINE 5306 - Sport Nutrition 3 sem. hrs.
- KINE 5313 - Assessment and Evaluation of Athletic Performance 3 sem. hrs.
- KINE 5314 - Principles of Strength and Conditioning 3 sem. hrs.
- KINE 5325 - Program Design for Resistance Training 3 sem. hrs.
- KINE 5338 - Motor Development in Sport 3 sem. hrs.
- KINE 5340 - Sport Psychology 3 sem. hrs.
- KINE 5390 - Professional Seminar 1-3 sem. hrs.
- KINE 5394 - Professional Field Experience 3 sem. hrs.

3. Applied Electives (6 semester hours)

Graduate-level courses to be selected with permission of faculty advisor. Choices may include, are not limited to the Kinesiology courses listed above.

- KINE 5698 - Thesis in Progress 3-6 sem. hrs.

4. Capstone Experience - Thesis in Progress (6 semester hours)

The thesis option is designed for students that want to gain extensive experience in research and/or greater knowledge about a specific topic area. It is also designed for those that anticipate more advanced research (e.g., Ph.D.).

The thesis option is not allowed for all students. Interested students must apply for the thesis option after the successful completion of KINE 5307 - Research Design in Kinesiology. Students are required to prepare a proposal for their thesis and defend that proposal for the graduate committee. If accepted the student may proceed with the thesis option. Students whose proposal is not accepted must pursue the Non-Thesis option (Graduate Project or Comprehensive Exam).

The thesis will require a minimum of two semesters of work and possibly more depending upon the student's topic and design. This is a very involved process and
though the product is the same as in the Research Project, the rigor and expectation is much higher, thus it is six semester hours of credit. The final product includes: 1) Journal Abstract; 2) Journal Manuscript (choice of journal is decided by thesis chair); 3) Poster Presentation; and 4) Power Point Presentation (Defense).

For Additional Information

Website: http://education.tamucc.edu/kinesiology/ms_kinesiology.html

Campus Address: Island Hall, Suite 351, Phone (361) 825-6072

Mailing Address: Kinesiology Graduate Committee Chair
Department of Kinesiology
Texas A&M University–Corpus Christi
6300 Ocean Drive, Unit 5820
Corpus Christi, TX 78412-5820

Teacher Education

Post-Baccalaureate Certificate

Alternative Certification of Educators (ACE)

Alternative Certification of Educators (ACE) *All courses are online

ACE is an Initial Teaching Certification Program for candidates who hold an undergraduate degree and wish to seek an initial teaching certification in an accelerated manner. Candidates must meet University admissions requirements as outlined in the Graduate Admissions section of this catalog. Furthermore, students must be accepted into the ACE program which includes demonstrating competencies in the desired teaching area by passing the content area state exam prior to entry. Should the student wish to continue and work towards a Master's degree, four graduate courses taken in the ACE program will apply if the student completed student teaching. If the student completed an internship, six graduate courses will apply towards a Master's degree.

ACE offers initial certification in the following areas:

- Art EC-12
- Bilingual Generalist EC-6 (requires BILINGUAL TARGET LANGUAGE PROFICIENCY TEST)
- Computer Science 8-12
ACE students enter the program as a cohort and begin in the first summer session or first fall session. These students may either complete student teaching, a 12-week, full-day, teaching practicum at a public or private school accredited by the Texas Education Agency, OR an Internship, a one-year, supervised, professional assignment at a public or private school accredited by the Texas Education Agency that will lead to completion of a standard certificate. At the completion of the ACE program, the student must apply for initial certification at the Texas Education Agency website.

All ACE completers have available to them continued support through our staff and faculty members as needed and also online mentorship with Performance-based Academic Coaching Teams through a Texas A&M University Systems grant for up to three years post certification.

ACE Admission Requirements

- Candidate must hold a Baccalaureate Degree from a accredited institution of higher learning. Official transcripts must reflect an overall 3.0 GPA or 2.5 - 2.9 for conditional in last 30 hours attempted for full admittance.
- Candidate must pass the TExES Pre-Admission Content Test (PACT.)
- Candidate must complete an interview essay and read & sign the Texas Teacher Code of Ethics.
- Candidate must meet all requirements for admission to the graduate program and submit the online graduate application at http://gradschool.tamucc.edu/application.html.
• Proof of English Language Proficiency must be established by the equivalent to/passing of English 1301 or 1302 or the Test of English as a Foreign Language. A transcript translation must occur by a certified group acceptable to The Higher Education Coordinating Board.
• Candidate must meet with the College of Education Certification Officer to develop a certification plan.
• Candidate is admitted into ACE program on the recommendation of the Coordinator.

Admission to and Retention in the ACE Teacher Education Program

Requirements for admission to and retention in the ACE Initial Teacher Certification Program are noted in the opening graduate catalog section for the College of Education under "Programs Leading to Post-Baccalaureate Teaching Certification". Please review this section for details.

ACE Coursework (18 sem. hrs.)

Summer Session I or Fall 1st 7-weeks
EDUC 5351 - Foundations of Education in America 3 sem. hrs.
EDUC 5352 - Planning, Teaching, Learning Processes 3 sem. hrs.

Requirements for admission to student teaching or teaching internship for the ACE student are noted in the opening graduate catalog section for the College of Education under "Admission to Student Teaching or Teaching Internship". Please review this section for details.

Summer Session II or Fall 2nd 7-weeks
EDUC 5353 - Classroom Management and the Student 3 sem. hrs.*

Choose ONE of the following courses:

READ 5321 - Fundamentals of Elementary Reading instruction I
READ 5322 - Fundamentals of Elementary Reading instruction II
READ 5323 - Fundamentals of Secondary Reading instruction

Six hours of PPR review and review test on-line (6 sem. hrs.)
Fall Semester: Before fall semester begins, apply for a job to work as either an intern teacher (a year-long, paid position in charge of your own classroom) or a student teacher (a single semester position in a classroom with a teacher). If you work as an intern teacher, you will take one evening course during the fall semester and attend a seminar in the spring semester.

If you choose the student teaching path, you will register for 6 hours of student teaching for the fall. These hours are not accepted for graduate credit.

(If you choose the intern teacher path):

EDUC 5393 - Internship I and Seminar for the intern Teacher 3 sem. hrs. (Fall Semester)

EDUC 5394 - Internship II and Seminar for the intern Teacher 3 sem. hrs. (Spring Semester)

* This course requires admission to the Texas A&M-Corpus Christi Teacher Education Program.

ACE Application and Recommendation for the Initial Teacher Certificate

Initial teacher certification by the Texas Education Agency is not automatically granted with the completion of an approved program of study. The ACE student must first be recommended for certification by the COE upon successful completion of the prescribed preparation program, passing of all required TExES tests, and student submission of the online application through the Texas Education Agency website. Application fees are required.

Programs Leading to Post-Baccalaureate Teaching Certification

Graduate Level Initial Teaching Certification Program

The Initial Teaching Certification Program is integrated as the initial portion of the Master of Science degree in Elementary Education or the Master of Science degree in Secondary Education. Students with an undergraduate degree seeking an initial teaching certification must meet University admissions requirements as outlined in the Graduate Admissions section of this catalog. Furthermore, students must be accepted by the COE Program Areas providing the MS in Elementary Education or MS in Secondary
Education. Undergraduate-level courses and graduate-level courses may be required on the initial teacher certification plan; however, only those courses with graduate-level designations may apply toward the master's degree.

In addition to the requirements listed, students must meet the requirements set by the specific certification content fields. See the appropriate sections of the undergraduate catalog for the individual teaching fields (e.g., Mathematics, English, History) for these requirements.

**Admission to and Retention in the Teacher Education Program**

Requirements for admission to and retention in the Graduate Level Initial Teacher Certification Program include:

1. Completion of the application process for admission to teacher education, (If denied admission, the student must reapply in order to be reconsidered for admission.) including passing the TExES PACT exam in the desired content area.
2. A minimum grade point average of 2.75 on all academic work attempted, or 2.75 on the last 30 hours attempted. (However, to remain in the program, a minimum GPA of 3.00 is required in all graduate work. See "Scholastic Probation and Enforced Withdrawal" in this catalog.)
3. Completion of the University requirement in oral communication.
4. Completion of EDUC 5351 or EDUC 5352 with a grade of "B" or better.
5. Certification Plan or degree plan approved by the University Certification Officer.
6. Teaching certificate areas and endorsement/Supplemental Certificate areas (i.e., History, English, Science and others) may require above the minimum grade point average of 2.75. Students are to check the catalog section that pertains to the certificate area or the endorsement/Supplemental Certificate for required GPA's.
7. Completion of a criminal background check form.
8. Completion of TB screening.
9. An interview with a Teacher Education faculty member is required.

**Note:**

Every individual, upon application for initial teacher certification, will receive a national background investigation for a record of activity by the TEA/State Board for Educator Certification prior to issuance of the standard teaching certificate. Applicants for the Teacher Education Program may also be subject to a criminal background check by the partner school district. Districts have the right to refuse 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.

Individuals enrolled in the Graduate Level Initial Teacher Certification Program will be required to do field experiences during the day as part of their course work. Please contact an Academic Advisor in the College of Education for information about a suggested degree completion plan.

Individuals enrolled in the graduate level initial Teacher Certification Program who already hold a teaching position as the teacher of record in a school should follow the following sequence.

Semester 1

- EDUC 5352 - Planning, Teaching, Learning Processes 3 sem. hrs.

Semester 2

- EDUC 5353 - Classroom Management and the Student 3 sem. hrs. *

Semester 3

- EDUC 5351 - Foundations of Education in America 3 sem. hrs. and

Secondary:


Elementary:

- EDUC 5354 - Methods of Teaching Mathematics 3 sem. hrs.
- EDUC 5355 - Methods of Teaching Social Studies 3 sem. hrs. OR
- EDUC 5356 - Methods of Teaching Science 3 sem. hrs.

Note:

* This course requires admission to the Texas A&M-Corpus Christi Teacher Education Program.

Admission to Student Teaching or Teaching Internship
All initial teacher preparation programs offered by this University require appropriate professional laboratory experiences. Students may register for student teaching or, if employed by a Texas school district on an emergency teaching certificate, the student may register for a teaching internship. Registration for either student teaching or the teaching internship requires admission in writing from the Field Experiences Office. Student teaching or teaching internship 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.

Written application for admission to student teaching or teaching internship must be made at the Office of Field Experiences the semester before the assignment begins. The deadline for submitting applications is March 1 for students seeking FALL placement; June 1 for students seeking SPRING placement.

Other requirements include:

1. Admission to the Teacher Education Program.
2. A minimum GPA of 2.75 on all academic work attempted or 2.75 on the last 30 hours attempted.
3. A minimum of 3.00 on all COE work attempted.
4. Teaching certificate areas and endorsement/Supplemental Certificate areas (i.e., History, English, Science and others) may require above the minimum GPA of 2.75. Students are to check the catalog section that pertains to the certificate area or the endorsement/Supplemental Certificate for required GPA's.
5. Completion of 9 semester hours of English and 3 semester hours of public speaking.
6. Completion of all professional education courses and required reading courses with a grade of "B" or better.
7. Transfer students are to complete a minimum of 6 semester hours of required professional development education courses at the student's level of certification at Texas A&M University-Corpus Christi.
8. Completion of a "Fall Experience" (beginning of the year activities in a public school) and submission of a written summary of the experience is required for all students seeking student teacher placement.
9. In order to be admitted into student teaching, student must pass the TExES content test.

Recommendation for Initial Teacher Certification
Initial teacher certification by the TEA/State Board of Educator Certification 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 approved certification program with an overall GPA of 2.75.
2. Have completed the appropriate student teaching or teaching internship experience with a grade of "C" or better.
3. Have passed all appropriate TExES tests. In addition, students seeking certification in Bilingual Education must have passed the Bilingual Target Language Proficiency Test (BTLPT).
4. Submit an application online through the TEA/State Board for Educator Certification website for certification to the Certification Office in the COE. Application fees are required.

Supplemental Teaching Certificates

For those individuals who are already holding an initial teaching certificate, the College of Education offers supplemental teaching certificate preparation in the three certificate areas noted below. Upon completion of the prescribed courses and passing the required TExES content area exam, the student may apply to the TEA/State Board for Educator Certification for this certificate.

Bilingual Education (EC-Grade 6)

- BIEM 5343 - Foundations in Bilingual Education 3 sem. hrs.
- BIEM 5344 - Methods of Teaching Bilingual Children 3 sem. hrs.
- BIEM 5345 - Developmental Linguistics 3 sem. hrs.
- BIEM 5397 - Practicum-mutlicultural Education 3 sem. hrs.

English as a Second Language

- BIEM 5345 - Developmental Linguistics 3 sem. hrs.

- BIEM 5346 - Pedagogical implications of Bilingual/ESL 3 sem. hrs. OR
- BIEM 6346 - Pedagogical Implications of Bilingual/ESL 3 sem. hrs.

- BIEM 5347 - Methods of Teaching English As a Second Language 3 sem. hrs.
- BIEM 5349 - Contrastive Analysis 3 sem. hrs.
Certification by Examination Only

The State of Texas makes available to certified teachers the option of adding new content/teaching field areas to their existing teaching credential through a method called certification by exam only (with the exception of Health Science Technology Education and Trade & Industrial Education). Although many currently certified teachers prefer to have formal preparation prior to attempting a new state-licensing exam (TExES) in a content area, the State will allow the individual to challenge the content area TExES exam without any preparation at all. If a certified teacher wishes to pursue this initiative, the individual can register online with the testing agency at http://cms.texes-ets.org and indicate "Cert try Exam"

Master of Science

Early Childhood Education, MS

Program Description

This program is a degree designed for individuals who are currently working with young children or are desiring to work with young children in an educational setting. Courses are structured to increase the educator's knowledge of young children and the ensuing implications for programs and curricula.

Teachers, curriculum specialists and administrators will improve their competence in designing curriculum, classrooms, centers, and classroom experiences for young children. Students will also improve their skills in evaluating instruction based on children's needs, and develop techniques to appropriately evaluate young children's learning.

Student Learning Outcomes

Students will:

- Articulate and fulfill professional roles and responsibilities related to working with young children in the State of Texas.
• Design appropriate curricula, classroom centers, and classroom experiences for young children in the State of Texas.
• Determine effective, responsive instruction and assessment for young children in the State of Texas.
• Produce a portfolio consisting of experiences, projects, originally designed products and a synthesis of reflection developed during participation in the degree program.

**Admission Requirements**

Students are eligible to pursue graduate-level course work in Early Childhood Education if they meet COE graduate admission requirements as specified in the COE’s Graduate Policies and Regulations section of this catalog.

**Degree Requirements**

1. Foundation Courses (6 semester hours)
   
   • EDFN 5301 - Introduction to Research **3 sem. hrs.**
   
   • ERST 5302 - Studies in Equality of Educational Opportunities **3 sem. hrs.** OR
   
   • SPED 5385 - Foundations in Language Minority Special Education **3 sem. hrs.**

2. Core Courses (21 semester hours)
   
   • ECED 5301 - Involving Families and Communities in the Lives of Young Children **3 sem. hrs.**
   
   • ECED 5334 - Developmentally Appropriate Early Childhood Curriculum **3 sem. hrs.**
   
   • ECED 5337 - Cultural, Linguistic and Economic Diversity and the Effect on the Lives of Young Children **3 sem. hrs.**
   
   • ECED 5340 - Appropriate Formal and Informal Assessment of all Young Children **3 sem. hrs.**
   
   • ECED 5346 - Capstone Research Proposal in Early Childhood Education **3 sem. hrs.**
   
   • ECED 5349 - Capstone Research Project in Early Childhood Education **3 sem. hrs.** (required for all students)
   
   • READ 5310 - Emergent Literacy **3 sem. hrs.**

3. Specialization Areas (9 semester hours)
Students are required to choose ONE area of specialization and complete ALL courses in the area chosen.

**Bilingual Education (EC-Grade 4)**

- BIEM 5343 - Foundations in Bilingual Education 3 sem. hrs.
- BIEM 5344 - Methods of Teaching Bilingual Children 3 sem. hrs.
- BIEM 5345 - Developmental Linguistics 3 sem. hrs.

**English as a Second Language**

- BIEM 5346 - Pedagogical implications of Bilingual/ESL 3 sem. hrs. OR
- BIEM 6346 - Pedagogical Implications of Bilingual/ESL 3 sem. hrs.

- BIEM 5347 - Methods of Teaching English As a Second Language 3 sem. hrs.
- BIEM 5349 - Contrastive Analysis 3 sem. hrs.

**Reading Education**

- READ 5345 - Stages and Standards for Reading Development 3 sem. hrs.
- READ 5369 - Content Area Reading 3 sem. hrs.
- READ 5381 - Exploring the Literature of Children and Adolescents 3 sem. hrs.

**Special Education**

- SPED 5315 - Individuals with Exceptionalities in the Schools 3 sem. hrs. OR
- SPED 6315 - Individuals with Exceptionalities in the Schools sem. hrs.

- SPED 5387 - Content-area Strategies for Students with Exceptionalities 3 sem. hrs.
- SPED 5380 - Students with Behavior Disorders 3 sem. hrs.

4. Additional Electives as approved by advisor

- ECED 5303 - Graduate Studies in Early Childhood Education 3 sem. hrs.
- ECED 5397 - Practicum in Early Childhood Education 3 sem. hrs.

**Capstone Experience**

All students pursuing the master’s degree in Early Childhood Education will take ECED 5349 (Capstone Experience in Early Childhood Education). Candidates for this degree must successfully present and defend their Graduate Portfolio to the Assessment Panel.
prior to graduation. The portfolio consists of experiences, projects, originally designed products and a synthesis of reflection developed during participation in the degree program. Each student who is a candidate for graduation must present and discuss each item of their portfolio with the Assessment Panel. The panel of three consists of a Texas A&M University-Corpus Christi Early Childhood professor, a professor from the College of Education (Texas A&M University-Corpus Christi), and a professional educator who holds a masters or doctorate degree.

For Additional Information

**Website:**  http://education.tamucc.edu/graduate_studies.html

**Campus Address:**  Faculty Center, Room 228; Phone (361) 825-5581

**Mailing Address:**  Department of Teacher Education, Unit 5818  
College of Education  
Texas A&M University-Corpus Christi  
6300 Ocean Drive, Corpus Christi, Texas 78412-5818

**Elementary Education (MAC), MS**

**Program Description**

This degree is appropriate for persons seeking EC-Grade 6 or Grades 4-8 Initial Teacher Certification. The competencies required for this program are in the area of "Graduate Level Initial Certification." This program is usually referred to as the Masters and Certification (MAC) program.

**Admission Requirements**

Students are eligible to pursue graduate-level course work in Elementary Education if they meet COE graduate admission requirements as specified in the COE's Graduate Policies and Regulations section of this catalog, have a bachelor's degree, and pass the TExES Pre-Admission Content Test PACT for the desired content area of teaching. More information regarding the PACT can be found at the Educational Testing Systems (ETS) website: http://cms.texas-ets.org/epp/eppact/.

Prior to full or conditional acceptance into the College of Education Graduate Program, students seeking initial certification and a Master of Science degree in Elementary Education or in Secondary Education must 1) meet all requirements of the Office of
Graduate Studies and pass the desired content area TExES Pre-Admission Content Exam (PACT). 2) Complete a screening essay to be read by a faculty member of the Department of Teacher Education; and 3) Agree to and sign the Code of Ethics and Standards of the College of Education's Educator Preparation Program before being fully, or conditionally, admitted into the program. Certification and degree plans that involve TEA/State Board for Educator Certification rules also require approval of the Certification Officer prior to becoming certified to teach. Students desiring to change from their initial choice of certification plan or degree plan must apply to, and be accepted by, the Program Area in which the new plan is offered. Any course waivers within the student's plan must be filed in the COE Certification Office.

Student Learning Outcomes

Students will:

- Design instruction and assessment to promote student learning.
- Provide examples of a positive classroom climate.
- Determine effective, responsive instruction and assessment as teachers.
- Articulate and fulfill professional roles and responsibilities as teachers.
- Design and implement an action research project that utilizes knowledge of the content and pedagogy acquired in the program to inform their teaching.

Degree Requirements

Students seeking the Master of Science in Elementary Education and EC-6 or 4-8 Certification must complete all requirements for both prior to graduation. Students must complete two semesters of Internship or one semester of Student Teaching, along with the required electives, in order to graduate.

1. Instructional Methodology (15 semester hours)

   - EDUC 5351 - Foundations of Education in America 3 sem. hrs.
   - EDUC 5352 - Planning, Teaching, Learning Processes 3 sem. hrs.
   - EDUC 5353 - Classroom Management and the Student 3 sem. hrs.
   - EDUC 5354 - Methods of Teaching Mathematics 3 sem. hrs.
   - EDUC 5355 - Methods of Teaching Social Studies 3 sem. hrs.
   - or
   - EDUC 5356 - Methods of Teaching Science 3 sem. hrs.

2. Specialization Area-Combination of Subjects (18 semester hours)
• ERST 5302 - Studies in Equality of Educational Opportunities 3 sem. hrs.
• READ 5321 - Fundamentals of Elementary Reading instruction I 3 sem. hrs.
• READ 5322 - Fundamentals of Elementary Reading instruction II 3 sem. hrs.
• Internship (if eligible) or BIEM 5346 - Pedagogical implications of Bilingual/ESL or BIEM 5347
• Internship (if eligible) or SPED 5315 - Individuals with Exceptionalities in the Schools or IDET 5390 - Professional Seminar
• IDET 5360 - Design Strategies for Online Instruction and Learning Management Systems 3 sem. hrs.

3. Institutional Requirements and Electives (3 semester hours)

• EDUC 5358 - Applied Research and Professional Writing 3 sem. hrs.

Capstone Experience

EDUC 5358 - Applied Research and Professional Writing, serves as the capstone experience for the Master of Science degree in Elementary Education. Students will be expected to conduct a formal applied research study that examines the effectiveness of teaching and learning practices, thereby demonstrating their understanding and ability to integrate program objectives and demonstrate the value of infusing inquiry into practice. The research study will be presented, both orally and in writing, following criteria specified in the course syllabus. Prerequisite: Successful completion of required courses in the specialization area and instructional methodology.

For Additional Information

Website: http://catalog.tamucc.edu/preview_program.php?catoid=8&poid=643

Campus address: Faculty Center, Room 239; Phone (361) 825-5581

Mailing Address: Department of Teacher Education, Unit 5818
College of Education
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5818

Instructional Design and Educational Technology, MS

Program Description
Primary audiences for the Instructional Design and Educational Technology (IDET) Master of Science Degree Program include professional educators in K-12, higher education, and corporate, military, and public service sectors. The program is consistent with state, national, and international standards, supported by the International Association for K-12 Online Learning (iNACOL) standards and the International Society for Technology in Education (ISTE) standards. The IDET Program utilizes an overarching project-based learning (PBL) design with community service called Collaborative Lives in Context. The program's goal is to enable graduates to solve learning and performance problems by means of applying instructional design principles, emergent technology applications and software, learning theories, best practices, and germane research. These projects are supported and encouraged to involve international collaborators.

Students acquire skills and knowledge in the following areas:

- describing the historical and theoretical underpinnings of the field;
- applying current mobile and computing applications and Internet resources useful in diverse learning environments;
- conducting project-based learning and associated learning events;
- applying learning theories and instructional strategies appropriate for given categories of human capabilities;
- using instructional design theory, models, principles, and processes;
- designing and developing instructional materials in a variety of technology-based formats;
- designing and developing instructional hypermedia;
- developing on-line instruction;
- exploring current STEM related technology and engineering applications, strategies, and pedagogies.

All students must successfully complete IDET 5397, Instructional Design and Educational Technology Practicum, including a program-progressive electronic portfolio prior to graduation. Elective courses may not be taken. However, students who have earned appropriate graduate credit hours from a duly accredited college or university may be allowed to transfer a maximum of nine previous semester of graduate-level credit hours based upon approval by an assigned faculty advisor. Transferred courses may not be more than seven years old on the day of the student's graduation.

Students in this program experience local and global collaboration through project-based learning with meaningful community service learning outcomes. Some of these Collaborative Lives in Context cross-course team projects are ongoing while others are generated from emergent learning and service needs assessments. Collaborative Lives in
Context projects engage students in learning through the purposive serving of targeted learning audiences and communities in local and global service sites.

**Student Learning Outcomes**

Student learning outcomes for the program are as follows:

- plan and develop effective, efficient instruction and related assessments using instructional design processes and principles to solve real-world learning and performance problems.
- design and develop complete, effective instruction for online learning environments in an active learning management system.
- in an electronic portfolio, demonstrate knowledge, skills, and application of the field's underlying theories, knowledge base, and tools.

**Delivery Modes**

This degree can be taken in either of two delivery modes: online or resident-based. The online or resident-based delivery modes allow students to work with the faculty advisors to develop a program of study that emphasizes development of skills and knowledge in a specific aspect of instructional design and educational technology fitting to each student's learning and career goals in K-12, higher ed, or adult learning environments.

**Admission Requirements**

Students are eligible to pursue graduate-level course work in Instructional Design and Educational Technology if they meet COE graduate admission requirements as specified in the COE's Graduate Policies and Regulations section of this catalog.

**Degree Requirements**

1. **Prerequisites**

   Applicants entering into the program will be required to take an online module that assists learners in use of the learning management system at TAMU-CC.

2. **Required Courses (36 semester hours)**
Foundation Courses (6 hours)

- EDFN 5301 - Introduction to Research 3 sem. hrs.
- ERST 5302 - Studies in Equality of Educational Opportunities 3 sem. hrs.

IDET Core Courses (24 hours)

- IDET 5300 - Instructional Design and Educational Technology Foundations 3 sem. hrs.
- IDET 5302 - Computer Applications in Education 3 sem. hrs.
- IDET 5303 - Instructional Hypermedia 3 sem. hrs.
- IDET 5304 - Instructional Design 3 sem. hrs.
- IDET 5305 - Instructional Design Applications 3 sem. hrs.
- IDET 5310 - Internet Resources in Education and Training 3 sem. hrs.
- IDET 5320 - Project Based Learning and Related Strategies for Technology Integration 3 sem. hrs.
- IDET 5397 - Instructional Design and Educational Technology Practicum 3 sem. hrs.

IDET Specialization Courses (6 hours)

- IDET 5390 - Professional Seminar 3 sem. hrs.
- IDET 5360 - Design Strategies for Online Instruction and Learning Management Systems 3 sem. hrs.

* All students who successfully complete IDET 5360 and IDET 5365 simultaneously complete the professional development required to design and teach courses on the Texas Virtual School Network. A TAMUCC College of Education certificate will be awarded to each student successfully completing those courses as documentation for TxVSN networks or other agencies.

Texas Virtual School Network (TxVSN) Professional Development Award (6 Semester Hours)

All students who successfully complete IDET 5360 and IDET 5365 complete the professional development required to design and teach courses on the Texas Virtual School Network. A TAMUCC College of Education Professional Development Award will be granted to each student successfully completing those courses as documentation for TxVSN networks or other agencies. See http://txvsn.tamucc.edu/ for more information.
- IDET 5360 - Design Strategies for Online Instruction and Learning Management Systems 3 sem. hrs.

Instructional Design and Educational Technology-Foundations, Constructivist Environments, Design and Development Research Certificate (9 Semester Hours)

The IDET Foundations, Constructivist Environments, Design and Development Research Certificate will prepare educators and their colleagues in related fields (Curriculum and Instruction, Early Childhood Education, Elementary Education, Educational Leadership, Educational Administration, Reading, and Secondary Education) with who they collaborate and supervise to provide research-based instructional technology designs in face-to-face, flipped, hybrid, and online learning environments. A series of three courses will prepare scholars to provide high quality design, instruction, and evaluation in utilizing principles and tenets of needs assessments, instructional systems design models, design current student-centered learning environments and activities, formative and summative evaluation, and design and development research investigation. Participating educators will be prepared to promote greater technology integration and implementation based upon current best practices in the field.

- IDET 6301 - Foundations of Instructional Design 3 sem. hrs.
- IDET 6315 - Project-Based Learning Types and Emerging Technologies 3 sem. hrs.
- IDET 6380 - Special Topics Course - Design and Development Research 3 sem. hrs.

Comprehensive Examination, Portfolio, and Exit Survey

All students are required to pass a comprehensive examination taken during their final semester of enrollment. All students must also develop and submit a professional portfolio which meets provided criteria. Students must also complete an exit survey prior to graduation.

For Additional Information

Website: http://education.tamucc.edu/gradstudies.html
Campus Address: Faculty Center, Room 228; Phone (361) 825-5581
Mailing Address: Department of Teacher Education, Unit 5818
College of Education
Texas A&M University-Corpus Christi
6300 Ocean Drive
Corpus Christi, Texas 78412-5818

Secondary Education (MAC), MS

Program Description

This degree is appropriate for persons seeking Grades 7-12 or EC-Grade 12 initial Teacher Certification. The competencies required for this program are in the area of "Graduate Level Initial Certification." This program is usually referred to as the Masters and Certification (MAC) program.

Student Learning Outcomes

Students will:

- Design instruction and assessment to promote student learning.
- Provide examples of a positive classroom climate.
- Determine effective, responsive instruction and assessment as teachers.
- Articulate and fulfill professional roles and responsibilities as teachers.
- Design and implement an action research project that utilizes knowledge of the content and pedagogy acquired in the program to inform their teaching.

Admission Requirements

Students are eligible to pursue graduate-level course work in Secondary Education if they meet COE graduate admission requirements as specified in the COE's Graduate Policies and Regulations section of this catalog, have a bachelor's degree, and pass the TExES Pre-Admission Content Test (PACT) for the desired content area of teaching. More information regarding PACT can be found at the Educational Testing Systems (ETS) website: http://cms.texes-ets.org/epp/eppact/.
Prior to full or conditional acceptance into the College of Education Graduate Program, students seeking initial certification and a Master of Science degree in Elementary Education or in Secondary Education must 1) meet all requirements of the Office of Graduate Studies and pass the desired content area TExES Pre-Admission Content Exam (PACT). More information in regards to the PACT can be found at the Educational Testing Services (ETS) website: http://cms.texas-ets.org/epp/eppcact; 2) Complete a screening essay to be read by a faculty member of the Department of Teacher Education; and 3) Agree to and sign the Code of Ethics and Standards of the College of Education’s Educator Preparation Program before being fully, or conditionally, admitted into the program. Certification and degree plans that involve TEA/State Board for Educator Certification rules also require approval of the Certification Officer prior to becoming certified to teach. Students desiring to change from their initial choice of certification plan or degree plan must apply to, and be accepted by, the Program Area in which the new plan is offered. Any course waivers within the student’s plan must be filed in the COE Certification Office.

Degree Requirements

**Students seeking the Master of Science in Secondary Education and EC-12 or 7-12 Certification must complete all requirements for both prior to graduation. Students must complete two semesters of Internship or one semester of Student Teaching, along with the required courses, in order to graduate.**

1. Instructional Methodology (21 semester hours)
   - EDCI 5340 - Instructional Techniques for Effective Teaching 3 sem. hrs.
   - EDUC 5351 - Foundations of Education in America 3 sem. hrs.
   - EDUC 5352 - Planning, Teaching, Learning Processes 3 sem. hrs.
   - EDUC 5353 - Classroom Management and the Student 3 sem. hrs.
   - Internship (if eligible) or BIEM 5346 or BIEM 5347
   - Internship (if eligible) or SPED 5315

2. Specialization Area - Combination of Subjects (12 semester hours)
   - ERST 5302 - Studies in Equality of Educational Opportunities 3 sem. hrs.
   - READ 5323 - Fundamentals of Secondary Reading instruction 3 sem. hrs.
   - IDET 5360 - Design Strategies for Online Instruction and Learning Management Systems 3 sem. hrs.
   - IDET 5390 - Professional Seminar 3 sem. hrs.
3. Institutional Requirements (3 semester hours)

- EDUC 5358 - Applied Research and Professional Writing 3 sem. hrs.

Capstone Experience

EDUC 5358 - Applied Research and Professional Writing, serves as the capstone experience for the Master of Science degree in Secondary Education. Students will be expected to conduct a formal applied research study that examines the effectiveness of teaching and learning practices, thereby demonstrating their understanding and ability to integrate program objectives and demonstrate the value of infusing inquiry into practice. The research study will be presented, both orally and in writing, following criteria specified in the course syllabus. Prerequisite: Successful completion of required courses in the specialization area and instructional methodology.

For Additional Information

Website: http://catalog.tamucc.edu/preview_program.php?catoid=8&poid=672

Campus Address: Faculty Center, Room 239; Phone (361) 825-5581

Mailing Address: Department of Teacher Education, Unit 5818
College of Education
Texas A&M University-Corpus Christi
6300 Ocean Drive
Corpus Christi, Texas 78412-5818

Special Education, MS

Program Description

The primary objective of this degree is to provide students with an eclectic program in special education that interfaces theory and pedagogy from both the language minority education and special education areas. Students will receive specialized training that is unique and specific to the needs of language majority and language minority exceptional students. The competencies will include: (1) foundations for understanding linguistically and culturally diverse students and exceptional children, (2) first and second language acquisition, (3) cultural variables and their effects on behavior, teaching and learning, (4) second language teaching methodology to develop reading and language skills, and (5) second language teaching methodology to facilitate content area learning and practical
problem solving. Students will also receive training in social and behavior intervention strategies and consultation strategies.

**Student Learning Outcomes**

Students will:

- demonstrate knowledge of individuals with disabilities.
- evaluate the needs of individuals with disabilities.
- demonstrate knowledge of fostering learning and development for individuals with disabilities.
- demonstrate knowledge of foundations of special education and professional roles and responsibilities of the special education educator.
- Develop a behavior intervention/change plan

**Admission Requirements**

Students are eligible to pursue graduate-level course work in Special Education if they meet COE graduate admission requirements as specified in the COE’s Graduate Policies and Regulations section of this catalog.

**Degree Requirements**

1. **Foundation Courses (9 semester hours)**

   - EDFN 5301 - Introduction to Research 3 sem. hrs.
   - BIEM 5345 - Developmental Linguistics 3 sem. hrs.
   - SPED 5385 - Foundations in Language Minority Special Education 3 sem. hrs.

2. **Core Classes (15-21 semester hours)**

   - SPED 5315 - Individuals with Exceptionalities in the Schools 3 sem. hrs.
   - SPED 5320 - Application of Learning Principles 3 sem. hrs. *
   - SPED 5380 - Students with Behavior Disorders 3 sem. hrs.
   - SPED 5386 - Reading and Language Strategies for Students with Exceptionalities 3 sem. hrs.
   - SPED 5387 - Content-area Strategies for Students with Exceptionalities 3 sem. hrs.
   - SPED 5340 - Individuals with Multiple Disabilities 3 sem. hrs.
   - SPED 5397 - Special Education Field Experience 3 sem. hrs.

*All students need to take SPED 5320 unless they took SPED 4335 as an undergraduate.
3. Electives (6 - 12 semester hours)

- Six to twelve semester credit hours of elective education courses are to be chosen in consultation with the faculty advisor.

Low-Incidence Disabilities Transcripted Certificate (9 semester hours)

To receive a low-incidence disabilities transcripted certificate, the student must complete 9 semester hours of coursework consisting of the following 3 courses.

- SPED 5319 - Introduction to Low-Incidence Disabilities 3 sem. hrs.
- SPED 5320 - Application of Learning Principles 3 sem. hrs.
- SPED 5321 - Supporting Access for Students with Low-Incidence Disabilities 3 sem. hrs.

Educational Diagnostician Certificate (33 semester hours)

To be certified as an Educational Diagnostician, the student must have a master’s degree, and successfully complete the 33 semester hours for Educational Diagnostician Certification, and pass the required TExES exam.

1. Curriculum and Instruction (12 semester hours)

- BIEM 5345 - Developmental Linguistics 3 sem. hrs.
- SPED 5315 - Individuals with Exceptionalities in the Schools 3 sem. hrs. OR
- SPED 6315 - Individuals with Exceptionalities in the Schools sem. hrs.
- SPED 5386 - Reading and Language Strategies for Students with Exceptionalities 3 sem. hrs.
- SPED 5387 - Content-area Strategies for Students with Exceptionalities 3 sem. hrs.

2. Related Area (9 semester hours)

- CNEP 5371 - Psychometrics 3 sem. hrs.
- CNEP 5374 - Individual intelligence Testing 3 sem. hrs.
- SPED 5310 - Psychoeducational Testing 3 sem. hrs.

3. Specialization Area (12 semester hours)
• SPED 5320 - Application of Learning Principles 3 sem. hrs.
• SPED 5380 - Students with Behavior Disorders 3 sem. hrs.

• SPED 5311 - Advanced Assessment 3 sem. hrs.
• SPED 5399 - Individualized Programs for Students with Exceptionalities: Practicum 3 sem. hrs.

Comprehensive Examination

In addition to successful completion of all courses required for graduation, all students are required to pass a comprehensive written examination taken during their final semester of enrollment.

For Additional Information

Website: http://education.tamucc.edu/special/grad_sped.html

Campus Address: Faculty Center, Room 228; Phone (361) 825-5581

Mailing Address: Department of Teacher Education, Unit 5818
College of Education
Texas A&M University-Corpus Christi
6300 Ocean Drive
Corpus Christi, Texas 78412-5818

College of Liberal Arts

College of Liberal Arts

Degree Programs

• English, MA
• History, MA
• Psychology, MA
• Public Administration, MPA
• Communication, MA
• Studio Art, MFA

Certificates

• Emergency Management
The College of Liberal Arts offers Master of Arts programs in the following fields: Communication, English, History, Psychology, and Studio Art. Additionally, it offers the Master of Public Administration and the Master of Fine Arts in Studio Art. In support of these programs, the college provides graduate courses in the performing arts, the humanities, and the social sciences. Career-oriented courses for teachers are provided in teacher certification areas.

Graduate programs offered by the College of Liberal Arts are designed to provide opportunities for students to engage in academic study at advanced levels. Knowledgeable and professionally active faculty guide students through their cognate disciplines and fields, produce creative and critical works of high quality, and practice the skills and techniques of their disciplines. Emphasis is placed both on the acquisition and on the generation of knowledge.

The college's graduate degree programs value excellence, and to achieve this end the college seeks to attract students of high potential from diverse backgrounds and encourages intellectual inquiry and creative/scholarly engagement and production.

**College of Liberal Arts:**

- Our college values learning that results from purposeful relationships within vibrant and dynamic communities.
- Our college values learning that affects the whole individual through all aspects of our humanity (from the emotive to the rational).
- Our college values learning that produces responsible citizens who engage in the communities around them.
- Our college values learning that engages in research and produces scholarship which extends knowledge and, through this, our regional, national, and global reputations.

**School of Arts, Media, and Communication (SAMC):**

The mission of the School of Arts, Media & Communication is to develop and promote collaboration, innovation, and creation among students and faculty in visual arts, music, theatre, dance, media, and communication. SAMC students engage in experiential learning, develop leadership, teamwork, and organizational skills, and apply 21st century technology in service of expressing and understanding human experience. SAMC offers cultural enrichment and collaborative opportunities to all university students and members of the South Texas community. To support this mission, the School of Arts, Media & Communication subscribes to the highest academic, artistic, and ethical standards.
Program Governance for Graduate Degree Programs

The college Curriculum Committee is composed of a chairperson, a vice-chair, and members from among the faculty qualified to teach graduate courses. In the area of graduate studies, this committee monitors and recommends degree programs, degree requirements and curricula to the faculty.

Program Admission, Continuance, and Completion Requirements

Students in graduate programs in the College of Liberal Arts must meet the minimum standards for admission, continuance, and completion specified by the University, as well as any additional criteria required by the degree program.

All graduate programs in the College of Liberal Arts require students to complete exit requirements. These may vary from written or oral examinations to capstone courses and theses. The exit requirements shall be rigorous and appropriate to the specific discipline. A student must successfully complete the exit requirements described in the course of study to graduate with an advanced degree.

A student on enforced withdrawal may not enroll in any graduate program for a minimum of 12 consecutive months. Please see "Scholastic Probation and Enforced Withdrawal" in the catalog section entitled "Graduate Academic and Degree Requirements."

Student Responsibility

Each student working toward a graduate degree is responsible for meeting the requirements outlined in the degree plan. The student is also responsible for meeting all deadlines: program application, examination, and graduation application. If the deadlines for examination and graduation application are not met, the student will not graduate that semester. In no instance will a student be admitted to degree candidacy without an approved and completed degree plan on file in the office of the college Dean. Amendments to the degree plan must be proposed by the student and approved by the degree committee or program advisor and the college Dean.

Course Load

A student registered for 9 semester hours or more is considered a full-time student. It is recommended that no more than 12 semester hours should be taken in a regular semester or 6 semester hours during each summer term. A student employed full time should not
register for more than 6 semester hours in a regular long semester or 3 semester hours in a summer term.

**Conditional Admission**

To earn a graduate degree, a student who has been accepted conditionally into a program in the College of Liberal Arts must fulfill the requirements of the conditional admission set by the program's admission committee, as well as all university and college degree requirements. For more information on conditional admission, see "Graduate Student Enrollment Classifications" in the "Admission" section of the catalog.

**Non-Degree Seeking Status**

Students classified as non-degree seeking may take graduate courses in the College of Liberal Arts with the approval of the Dean. They also must meet the minimum requirements set by the University for admission. Priority for class enrollment will be given to degree-eligible students. In addition, non-degree seeking students must be approved for registration by the chair of the department offering the course or courses they wish to study. Those students needing additional professional development beyond one semester must seek permission from the Dean of the college. No more than 9 semester hours earned as a non-degree seeking student may be counted toward the requirements for any graduate program in the College of Liberal Arts.

**Graduate Courses**

The Course Descriptions section of the catalog lists the complete course inventory in each teaching area. When registering, the student should always consult the Semester Schedule, which contains the specific course offerings for that term.

Although graduate degrees are not available, courses are offered in the following fields:

- Criminal Justice
- Mexican American Studies
- Music
- Political Science
- Sociology
- Spanish
- Theater

Graduate Courses are listed in the Course Descriptions section of the catalog.
Art

Master of Fine Arts

Studio Art, MFA

Program Description

The MFA in Studio Art is designed to enable students to develop superior studio art proficiency, knowledge of studio procedures, and a depth of understanding of art history and criticism sufficient to allow them to function independently as studio artists after graduation.

Student Learning Outcomes

Students will:

- Demonstrate superior studio art proficiencies and knowledge of studio procedures;
- Reach a depth of understanding of art history and criticism necessary to afford them the ability to function as studio artists and/or educators;
- Display their full comprehension of advanced principles and processes in a solo MFA final thesis exhibition of their work.

The MFA requires a student to have a close working relationship with faculty and an intensity of sustained studio effort to realize the expected level of creative output. If efforts by the student are scattered by time and distance, this working relationship is compromised and the student's achievements diminish. Enrollment will be limited to ten to fifteen students committed to an intense two-to-three year course of study in the program. Enrollments in the following courses will be restricted to students admitted into the MFA program: ARTS 5312, ARTS 5313, ARTS 5314, ARTS 5315, ARTS 5316, ARTS 5317, ARTS 5318, ARTS 5391, ARTS 5395, and ARTS 5398.

Admission Requirements

In addition to meeting university criteria for admission to graduate studies, an applicant must meet the following requirements for admission to the MFA program:

1. Earned a Bachelor of Fine Arts degree or an earned graduate degree in art from an institution accredited by one of the six regional accrediting associations.
2. Earned at least 15 hours of upper-level Studio Art.
3. Provide a CD-R (no DVD or CD-RW disks) of .jpg image files (at least 150 dpi) of applicant's art work.
4. Submit a typed essay (300-500 words) written by the applicant, explaining the applicant's interest and objectives in graduate studies.
5. Provide three letters of recommendation from faculty or other persons familiar with the applicant's interest and ability in art.

All application materials should be sent to the university's Office of Research and Graduate Studies.

All applications for admission, including the applicant's transcripts, essay, letters of recommendation and portfolio, will be reviewed by the Art Graduate Admissions Committee. College graduates who do not meet the above admission requirements may petition to enter the MFA program by conditional admission. The Art Graduate Faculty Committee reserves the right to interview students seeking conditional admission to the program. Students who have been conditionally admitted will have the first 9 semester hours of their studio work critiqued by the graduate art faculty to determine whether they qualify to continue in the program.

The deadline to apply for the MFA in Studio Art is February 1.

A student wishing to enroll in graduate courses as a non-degree seeking student must first submit a letter requesting admission from the Art Faculty, a portfolio representing his or her art work and a 300-500 word essay. Each case will then be reviewed by the entire Department of Art faculty before a student is allowed to enroll.

In situations where the entire faculty is not available to review applications, the chair of the Department of Art will appoint a committee comprised of two professors and the chair to review the applicants.

**Course Prerequisites**

Students must have completed at least 6 semester hours of upper-division undergraduate course work in a field or the specific course prerequisite to enroll in 5000-level courses in that field. Additional undergraduate prerequisite course work may be required by the specific graduate program.

**Transfer of Credit**

Subject to the recommendation of the graduate faculty and a portfolio review, students may have up to 15 semester hours (not including exhibition) of graduate credit applied to the Master of Fine Arts program. The credits must have been earned as degree-eligible
post-baccalaureate work. Credit that is more than ten years old will not be counted toward the MFA degree.

Degree Requirements

Course Requirements

Students must complete 60 semester hours in art with a 3.0 average. No more than 2 grades of C earned at this university will be accepted as credit for this degree. Students will take a minimum of ten courses (30 semester hours) in the single area of studio art that they select as their major area. Students may choose a major studio area from among painting, printmaking, drawing, photography, graphic design, ceramics, and sculpture. (ARTS 5302-5308, 5312-5318). Students may now choose up to 9 hours of elective credits that can serve as a minor area of concentration.

The distribution of requirements is seen in the following outline:

- Area of concentration (studio art courses in one area chosen from among seven offered) **30 sem. hrs.**
- Art seminar **3 sem. hrs.**
- Designated electives in Art History and Criticism **12 sem. hrs.**
- Studio elective **9 sem. hrs.**
- MFA exhibit **6 sem. hrs.**

Total: 60

Special Requirements

**Periodic Critique**

The major studio work of each student will be critiqued by members of the student's degree committee after the completion of 9 semester hours; subsequent faculty reviews of major studio work will occur each semester.

**Exit Requirement**

Each student must prepare a professional one-person MFA exhibition that must be reviewed favorably by the graduate faculty. The MFA exhibition will be supported by a critical statement, five to ten pages in length, written by the student, discussing the development of the work. In addition, the exhibition will be documented photographically. A CD-R of the images in the exhibition must be submitted to the
Graduate Coordinator. Passing an oral comprehensive examination administered by the graduate faculty is also required before the degree may be awarded. The oral comprehensive examination may be repeated once. A second failure will result in termination from the program.

For Additional Information

Website: http://cla.tamucc.edu//art/graduate/art_grad.html

Campus address: Center for the Arts (CA), Room 105; phone: (361) 825-2317

Department of Art, Unit 5721, College of Liberal Arts

Mailing address: Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5721

Communication and Media

Master of Arts

Communication, MA

Program Description

The Master's degree in Communication at Texas A&M University-Corpus Christi is designed for individuals who seek career advancement in communication positions, or who aspire to enroll in a doctoral program. Students in the Master's in Communication program can specialize in Organizational Leadership, Strategic Communication, or Interpersonal Communication. All three tracks consist of courses designed to enhance students' knowledge of communication principles, theories, and research in the track topic area and develop proficiency as writers, researchers, and critical decision makers. The program is designed to provide students with a quality experience that will help them grow as individuals, scholars, professionals, and citizens.

Student Learning Outcomes

- Graduates from this program will demonstrate knowledge and understanding of underlying concepts, principles, and theories in the field of Communication;
- Graduates from this program will demonstrate proficiency in writing and critical thinking at the Master's level;
• Graduates of this program will demonstrate proficiency in scholarly methods of inquiry; and
• Graduates of this program will demonstrate the ability to gather, interpret, evaluate, and present data for the purposes of addressing communication problems, developing media products, or advancing knowledge in the field of Communication.

Admission Requirements

In addition to the university admission requirements outlined for all graduate programs, the MA in Communication program requires:

• A bachelor's degree in Communication or related field.
• A cumulative grade point average (GPA) of no less than 3.0 on a 4-point scale.
• Transcripts of all undergraduate and graduate work undertaken at any regionally accredited colleges or universities.
• Two letters of evaluation from individuals such as professors and employers who can attest to the applicant's potential for success in a graduate program of study. Letters of evaluation should specifically address the applicant's potential for successful career and motivation for graduate study.
• An essay. Applicants must submit a 1-2 page (double spaced) essay describing your educational and professional goals and the reasons you are applying to the program.
• A writing sample. Samples may include research papers, term papers, and class essays.
• A comprehensive resume with current email address, telephone numbers, and mailing address.
• International students must have their credentials evaluated by the University Office of Graduate Studies for their equivalent value according to standard university procedure and meet other admissions requirements specified in the graduate catalog.

Application Checklist

Texas Common Application for Graduate Admission to the Graduate Studies Office with appropriate fee.

Official transcripts documenting all undergraduate and graduate coursework taken at any regionally-accredited college or university attended.
Bachelor's degree in Communication or related field.

Two letters of evaluation that address your potential for a successful career and your motivation for graduate study.

A 1-2 page (double spaced) essay describing your educational and professional goals and the reasons you are applying to the program.

Writing sample. Samples may include research papers, term papers, and class essays.

Comprehensive resume with email address, telephone numbers, and mailing address.

Provide a complete set of all application materials to the University Office of Graduate Studies. Note that the deadline for the Communication program is different than the date set by the Graduate Office.

College of Graduate Studies    Department of Communication & Media
Texas A&M University-Corpus Christi Texas A&M University-Corpus Christi
6300 Ocean Drive, Unit 5843    6300 Ocean Drive, Unit 5722
Corpus Christi, TX 78412    Corpus Christi, TX 78412
Attn: COMM Graduate Coordinator

For more information call: (361) 825-2316.

**Deadlines for Applications**

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Admission

Upon receipt of all admission materials, the Communication Graduate Admissions Committee will review the admissions materials. The committee may choose to admit, conditionally admit, or deny admission, based on evaluation of the admission materials (see description below). For full consideration of admission, assistantships, and scholarships, a completed admissions packet should be received by the priority deadline for the semester the student plans to enroll. The Communication Graduate Admissions Committee will continue to review applications until the final deadline or until all spaces are filled.

Applicants must have a Bachelor's degree in Communication or a related field (e.g. Psychology, Political Science, Sociology, Journalism, English, History, Public Relations) from a regionally accredited university or, if an international student, have the equivalent of a U.S. accredited degree as determined by the Dean of Graduate Studies. Applicants must possess an overall grade point average (GPA) of no less than 3.0 on a 4-point scale.

Conditional Admission

Applicants who have received a Bachelor's degree from a regionally-accredited university or, if an international student, the equivalent of a U.S. accredited degree, but who do not meet the admission requirements noted above may be conditionally admitted into the program. The Communication Graduate Admissions Committee will make the decision as to a student's conditional status. Students admitted conditionally must have a 3.0 GPA in their first 9 hours of graduate coursework approved by the Communication Graduate Advisor in order to continue in the program. The Communication Graduate Admissions Committee may also require the student to take relevant undergraduate leveling courses, particularly if the applicant's degree is from an unrelated field.

Degree Requirements
Admitted students will choose one of three degree tracks for the MA program in Communication: Organizational Leadership, Strategic Communication, or Interpersonal Communication. The tracks share core coursework designed to enhance student knowledge of communication principles and theories and develop their proficiency as writers and researchers. Each track is a minimum of 36 hours and includes both required and elective courses. With prior approval from the Communication Graduate Advisor, up to 6 hours of non-communication graduate level coursework can count as part of this 36-hour requirement. Each track is described in greater detail below.

Students in all three tracks will complete the following four required core courses:

- COMM 5301 - Introduction to Communication Scholarship 3 sem. hrs.
- COMM 5302 - Seminar in Communication Theory 3 sem. hrs.
- COMM 5303 - Research Methodology 3 sem. hrs.
- COMM 5304 - Cultural Studies 3 sem. hrs.

I. Organizational Leadership Track

The Organizational Leadership track focuses on principles, theories, and research of organizational communication and leadership. It is appropriate for individuals who are interested in working in leadership or management positions within a variety of organizations or who want to pursue a Ph.D. in organizational communication or a related area.

Students in the Organizational Leadership track must complete the four required core courses described above, four required Organizational Leadership track courses, two to three elective courses, and either the comprehensive exams or thesis exit requirement.

Required Courses

Take these (12 hours):

- COMM 5306 - Instructing and Consulting 3 sem. hrs.
- COMM 5307 - Communication and Organizations 3 sem. hrs.
- COMM 5308 - Communicating Leadership 3 sem. hrs.
- COMM 5314 - Small Group Decision Making 3 sem. hrs.

Electives

Choose 2-3 electives (6-9 hours) from the following:

- COMM 5309 - Seminar in Interpersonal Communication 3 sem. hrs.
Exit Requirement

All students are automatically assigned the comprehensive exam exit requirement. Students may apply to complete a thesis. (See Exit Requirement section below.)

Comprehensive Exams (3 hours)

- COMM 5394 - Seminar in Communication 1-3 sem. hrs.
  or Thesis (6 hours)
- COMM 5395 - Thesis 3 sem. hrs.
  (taken twice for a total of 6 sem. hrs.)

II. Strategic Communication Track

The Strategic Communication track focuses on principles, theories, and research of goal-oriented communication, particularly as it relates to communicating with the public. It is appropriate for individuals who are interested in working in public relations or marketing positions within a variety of organizations or who want to pursue a Ph.D. in public relations, persuasion, or a related area.

Students in the Strategic Communication track must complete the four required core courses described above, four required Strategic Communication track courses, two to three elective courses, and either the comprehensive exams or thesis exit requirement.

Required Courses

**Take these (12 hours):**

- COMM 5311 - Seminar in Persuasion Theory 3 sem. hrs.
- COMM 5335 - Advanced Crisis Communication 3 sem. hrs.
• COMM 5340 - Public Relations Theory 3 sem. hrs.
• COMM 5346 - Seminar in New Media 3 sem. hrs.

Electives

**Choose 2-3 electives (6-9 hours) from the following:**

• COMM 5306 - Instructing and Consulting 3 sem. hrs.
• COMM 5307 - Communication and Organizations 3 sem. hrs.
• COMM 5308 - Communicating Leadership 3 sem. hrs.
• COMM 5309 - Seminar in Interpersonal Communication 3 sem. hrs.
• COMM 5310 - Seminar in Intercultural Communication 3 sem. hrs.
• COMM 5312 - Seminar in Gender Communication 3 sem. hrs.
• COMM 5314 - Small Group Decision Making 3 sem. hrs.
• COMM 5330 - International Leadership 3 sem. hrs.
• COMM 5331 - Seminar in Nonverbal Communication 3 sem. hrs.
• COMM 5390 - Special Topics in Communication 3 sem. hrs.
• COMM 5399 - Internship 3 sem. hrs.

Exit Requirement

All students are automatically assigned the comprehensive exam exit requirement. Students may apply to complete a thesis. (See Exit Requirement section below.)

Comprehensive Exams (3 hours)

• COMM 5394 - Seminar in Communication 1-3 sem. hrs.
  or Thesis (6 hours)
• COMM 5395 - Thesis 3 sem. hrs.
  (taken twice for a total of 6 sem. hrs.)

III. Interpersonal Communication Track

The Interpersonal Communication track provides courses that focus on principles, theories, and research surrounding communication that functions to initiate, maintain, deepen, and sometimes terminate relationships. The track is especially geared toward individuals who wish to work in positions or professions that emphasize interaction with others; it is also appropriate for students who wish to pursue doctoral study in interpersonal communication or related areas.
Students in the Interpersonal Communication track must complete the four required core courses described above, four required Interpersonal Communication track courses, two to three elective courses, and either the comprehensive exams or thesis exit requirement.

Required Courses

**Take these (12 hours):**

- COMM 5309 - Seminar in Interpersonal Communication 3 sem. hrs.
- COMM 5310 - Seminar in Intercultural Communication 3 sem. hrs.
- COMM 5315 - Family Communication 3 sem. hrs.
- COMM 5331 - Seminar in Nonverbal Communication 3 sem. hrs.

Electives

**Choose 2-3 electives (6-9 hours) from the following:**

- COMM 5306 - Instructing and Consulting 3 sem. hrs.
- COMM 5307 - Communication and Organizations 3 sem. hrs.
- COMM 5308 - Communicating Leadership 3 sem. hrs.
- COMM 5311 - Seminar in Persuasion Theory 3 sem. hrs.
- COMM 5312 - Seminar in Gender Communication 3 sem. hrs.
- COMM 5314 - Small Group Decision Making 3 sem. hrs.
- COMM 5330 - International Leadership 3 sem. hrs.
- COMM 5390 - Special Topics in Communication 3 sem. hrs.
- COMM 5399 - Internship 3 sem. hrs.

Exit Requirement

All students are automatically assigned the comprehensive exam exit requirement. Students may apply to complete a thesis. (See Exit Requirement section below.)

Comprehensive Exams (3 hours)

- COMM 5394 - Seminar in Communication 1-3 sem. hrs.
  or Thesis (6 hours)
- COMM 5395 - Thesis 3 sem. hrs.
  (taken twice for a total of 6 sem. hrs.)

Exit Requirements
Students must complete 36 graduate hours in Communication with a cumulative 3.0 GPA or higher. All students admitted to the program will automatically be registered for the Comprehensive Exam exit requirement.

1. **Comprehensive Exam.** Students will take 12 hours of core coursework in communication theory and research methods, 12 hours of required track coursework, 9 hours of pre-approved electives, and COMM 5394. Students will also successfully complete examinations that cut across completed courses allowing students to demonstrate their abilities to analyze and synthesize material. The exams will be given during the semester of expected graduation and will be graded as "pass" (for credit), or "fail" (for no credit). If the student fails part or all of the examination/s, the student may be able to retake the failed examinations a second time that semester. Students who do not pass comprehensive exams need to register for COMM 5394 and attempt the exams the next semester. The student must achieve a passing grade on all exam questions in order to graduate.

2. **Thesis.** Students may apply to complete a thesis instead of comprehensive exams. This is an appropriate option for individuals who are interested in pursuing a Ph.D. or who want to work in an area that involves research. To apply to complete the thesis, students must develop a thesis pre-proposal that the faculty will evaluate. Students who are approved to complete the thesis will take 12 hours of core coursework in communication theory and research methods, 12 hours of required track coursework, 6 hours of pre-approved electives, and at least 6 hours of thesis work culminating in the thesis document. Thesis students will also defend a thesis in an oral examination to the appropriate graduate faculty. A majority of the faculty on the thesis committee must grade the thesis and defense as "credit" for it to be accepted to meet graduation requirements. If the student does not receive a "credit" score, the student has one year from the time of the first defense to complete the thesis satisfactorily and fulfill this requirement.

**Graduate Degree Advising**

Upon admission into the program, the student will be advised by a communication graduate faculty member. After the end of the second semester or 18 hours of completed coursework, a Faculty Advisor will help the student develop an initial degree plan. The degree plan outlines the prescribed graduate coursework and other requirement needed to complete the MA in Communication degree.

The student is expected to meet with their advisor prior to registering for classes. The Faculty Advisor will work closely with the student to ensure that each student pursues the most advantageous course of study for his/her future goals.
Transfer of Credit

In addition to the University's general policy on transfer of credit, the following regulations will apply to the MA in Communication program: Up to 9 semester hours may be transferred from a recognized institution of higher education if appropriate to the degree. However, only 6 hours of non-communication coursework will be accepted as part of this 9 semester hours. No course with a grade less than a "B," and no course that has counted toward the earning of another graduate degree, will be accepted as transfer credit. Credit that is more than seven years old at the time of graduation will not be counted toward the MA degree. Acceptance of transfer credit will be determined by the Communication Graduate Advisor.

Graduate Courses

Graduate Courses are listed in the Course Description section of the catalog.

For Additional Information

For more information on the Communication Graduate Program contact:

Website: http://cla.tamucc.edu//communication/graduate/welcome.html

Campus address: Bay Hall 330; phone 361-825-2316

Department of Communication & Media
College of Liberal Arts

Mailing address: Texas A&M University-Corpus Christi
6300 Ocean Drive, Bay Hall 330, Unit 5722
Corpus Christi, TX 78412-5722

English

Master of Arts

English, MA

Program Description
The MA in English Program offers all candidates the opportunity to grow intellectually and creatively through the advanced study of language, literature, and writing. The program offers a variety of opportunities designed to:

- further students’ understanding of writing, composition theory, linguistics, literature, and literary theory;
- encourage awareness and application of transnational and/or border studies perspectives;
- develop accomplished teachers of English at the secondary and community college levels;
- prepare skilled professional/technical writers and writing trainers;
- provide students with the background and skills needed to pursue terminal degrees in English or American Studies.

The English MA faculty is committed to an integrated understanding of English as a field of study.

**Student Learning Outcomes**

At the end of the program, students will demonstrate:

- proficiency in critical reading, writing, and thinking at the graduate level;
- understanding and application of core knowledge, vocabulary, and concepts in the discipline;
- proficiency in scholarly methods of research and inquiry; and
- appropriate preparation for individual career paths within the profession.

**Admission Requirements**

1. Applicants must comply with the university procedures and requirements in applying for admission to the English Graduate Program. Application is made through the Office of Graduate Studies, with duplicate materials submitted to the English Graduate Program Coordinator.
2. Applicants must submit through the Office of Graduate Studies a portfolio that includes:
   - A letter (2-4 pages long) from the candidate addressed to the English Graduate Committee introducing the candidate and describing:
     - academic background,
     - short and long-term professional goals,
     - the connection between the candidate's short and long term personal or professional goals and the candidate's desire to
pursue graduate study in English at Texas A&M University-Corpus Christi, and

- additional details about the candidate's background, language proficiency, and other personal information relating to individual/career goals that may have influenced the decision to pursue graduate study.
  - A recent academic writing sample of at least 2000 words, which the applicant believes displays exemplary analytic and stylistic features.
  - Three letters of recommendation.

3. Admission to the program will be granted based upon undergraduate performance, writing ability, demonstrated commitment to professional goals, and other favorable indicators presented in the portfolio. All criteria will be considered, and no factor will be assigned a specific weight. Based upon the English Graduate Committee's evaluation of the student's application portfolio, the student will be unconditionally admitted, conditionally admitted, or denied admission. If the student is conditionally admitted, the conditions of acceptance will be stated in writing.

4. The English Graduate Committee may recommend that applicants lacking the English undergraduate major complete certain upper-division undergraduate English course work before applying to the program.

5. A limited number of scholarships and graduate assistantships are available to first-year students. Application for assistantships should be made directly to the English Graduate Program Coordinator. Scholarship applications should be submitted through the College of Graduate Studies.

Course Requirements

The candidate for the English MA degree must complete 36 graduate hours in English with a "B" average and must pass the exit comprehensive examination. Credit for no more than one "C" earned at this university may be applied to the degree.* In addition to the 9 hours of core courses, students choosing the thesis option will take 9 hours of core courses, 6 hours in Writing Studies, 6 hours in Literary Studies, 9 hours of English electives, and 6 hours of ENGL 5390 (Thesis), 3 hours in one semester and 3 hours in a separate semester. Students choosing the non-thesis option will take 9 hours of core courses, 6 hours in Writing Studies, 6 hours in Literary Studies, 12 hours of English electives, and a 3-hour course in a specialty field (Literary Studies, Writing Studies, or Linguistics) selected by the student, with the approval of the faculty of record. This will serve as his/her Capstone experience. A maximum of 3 credit hours of ENGL 5396 (Individual Study) may count towards the degree.
* In keeping with University policy, an academic department can have requirements that are stricter than the University's. The English department allows fewer grades of C to count toward a graduate degree than some other departments.

Part One: Core Requirements (9 sem. hrs.)

All students must complete the following:

- **ENGL 5301 - Theory and Practice I: Literary Studies** 3 sem. hrs.
- **ENGL 5303 - Theory and Practice II: Writing Studies** 3 sem. hrs.

One of the following Linguistics courses:

- **ENGL 5380 - Seminar in Sociolinguistics** 3 sem. hrs.
- **ENGL 5381 - Introduction to Linguistics** 3 sem. hrs.
- **ENGL 5385 - Seminar in Applied Linguistics** 3 sem. hrs.

Part Two: Writing Studies and Literary Studies

Writing Studies

All students must take 6 hours in the following Writing Studies Courses:

- **ENGL 5360 - Evaluation and Diagnosis of Writing** 3 sem. hrs.
- **ENGL 5361 - Basic Writing Theory and Pedagogy** 3 sem. hrs.
- **ENGL 5362 - Computers and Writing** 3 sem. hrs.
- **ENGL 5363 - History of Rhetoric** 3 sem. hrs.
- **ENGL 5364 - Technical Writing Theory and Pedagogy** 3 sem. hrs.
- **ENGL 5365 - Community Literacy Theory and Pedagogy** 3 sem. hrs.
- **ENGL 5369 - Topics and Genres in Rhetoric and Composition** 3 sem. hrs.
- **ENGL 5376 - Professional Writing** 3 sem. hrs.
- **ENGL 5380 - Seminar in Sociolinguistics** 3 sem. hrs.
- **ENGL 5385 - Seminar in Applied Linguistics** 3 sem. hrs.
- **ENGL 5392 - Practicum for Composition Instructors** 3 sem. hrs.

Literary Studies

All students must take 6 hours in the following Literary Studies courses:* 

- **ENGL 5340 - British Literature Before 1660** 3 sem. hrs.
- **ENGL 5342 - British Literature 1660 - 1830** 3 sem. hrs.
- **ENGL 5343 - British Poetry and Fiction 1900-Present** 3 sem. hrs.
- **ENGL 5344 - British Literature 1830 - 1900** 3 sem. hrs.
- **ENGL 5346 - American Literature to 1865** 3 sem. hrs.
• ENGL 5347 - American Literature 1865-1940 3 sem. hrs.
• ENGL 5348 - American Literature 1945-Present 3 sem. hrs.
• ENGL 5349 - Topics and Genres in Literature 3 sem. hrs.

Note

Students are encouraged to take at least one American literature course to help prepare them for the exit examination which will include readings from both fields of study.

Part Three: Elective

In addition to the 9 hours of core requirements, 6 hours in Writing Studies, and 6 hours in Literary Studies, students must complete 9 hours of electives (Thesis Option) or 12 hours of electives (Non-Thesis). Any of the courses listed above in Writing Studies, Literary Studies, and Linguistics as well as those listed below may be taken for elective credit hours.*

• ENGL 5375 - Creative Writing 3 sem. hrs.
• ENGL 5396 - Individual Study 1-3 sem. hrs.
• ENGL 5667 - Workshop 6 sem. hrs.

Note

*With the approval of the English Graduate Committee, students may take 3 hours in a discipline outside of English as part of his/her elective hours.

Exit Requirements

In addition to meeting the university requirement of a 3.0 GPA or greater, candidates for the MA in English must meet the following exit requirements:

1. Thesis-option students must defend the thesis in an oral examination; a majority of the thesis committee members must pass the thesis and its defense. Candidates will submit an approved bound copy of the completed thesis to the English Graduate Program Coordinator and to Bell library. Prior to that submission, students will work with the School of Graduate Studies and the Graduate Advisor to ensure that their thesis meets the publishing requirements set forth by the university.

2. Students pursuing the non-thesis option must successfully satisfy the requirements of the Capstone experience.

3. All students must pass a written comprehensive exam in either Literary Studies or Writing Studies.
Thesis or Capstone Option

Students may choose the Thesis Option or the Capstone Option to serve as part of their exit requirement. The department recommends that the students consult with their faculty mentor to determine which choice will work best, given their career goals, time constraints and other concerns.

Thesis Option

The thesis option may be an appropriate choice for students depending on their long-term scholarly goals, writing skills, targeted doctoral programs, and plans for further specialization. Students considering a thesis should seek the help of their graduate mentor as early as possible in selecting appropriate course work. Students may apply to write a thesis after completing 18 hours of course work. Once accepted as a thesis candidate, students are expected to work closely with their committee in designing and executing the thesis. The 6 credit hours towards the thesis (ENGL 5390) must be taken in two separate semesters. An oral defense of the thesis will be scheduled at the end of the second semester or when the committee chair determines that the student is ready to defend. Thesis guidelines and application forms are available from the English Graduate Program Coordinator or from the office of the Dean of the College of Liberal Arts.

- ENGL 5390 Thesis 3 sem. hrs. (semester 1)
- ENGL 5390 Thesis 3 sem. hrs. (semester 2)
- Electives 9 sem. hrs. (See above Part Three: Electives)
- Oral Defense of Thesis

Capstone Option

Students electing not to write a thesis will identify a course during their last two semesters of the program to serve as their Capstone experience (with the approval of the faculty of record). This course should be in their area of interest so as to provide them with an opportunity to deepen their knowledge of the field through 1) content and skill building gained from the course material 2) independent research and 3) review of past knowledge gained from former seminars to apply to their final research project. Following the guidelines in the graduate handbook, students will create a contract with faculty of record, which they will submit to the Graduate Committee for approval. The Capstone course may not be a core course.

- Capstone Experience 3 sem. hrs.
- Electives 12 sem. hrs. (See above Part Three: Electives)

Written Comprehensive Examination
The English comprehensive examination measures students’ ability to integrate, synthesize, and reflect on the learning achieved during the program. While students receive a solid foundation in both Writing Studies and Literary Studies, they will become more specialized in one of the two areas through independent reading and research in preparation for the comprehensive exam. All candidates must pass this comprehensive examination to receive their MA degree. Students will receive the reading lists for the two examination areas when they begin the program and will declare one in which to be examined during their last semester of study. They should consult with their graduate advisor early in the program on the specific nature and purpose of the comprehensive examination. Full details of the English MA Comprehensive Examination may be obtained from the English Graduate Program Coordinator or from the English graduate handbook.

Graduate Degree Mentor

Upon admission into the program, the student will be notified of his/her mentor, who will be a member of the English graduate faculty. Students are expected to meet with their mentor once a semester as they advance through the program. The mentor will work closely with the student to ensure that all degree requirements are met and that each student pursues the most advantageous course of study for his/her future goals.

Degree Plan

Each student working toward a graduate degree is responsible for meeting the requirements outlined in the degree plan. The student is also responsible for meeting all deadlines: program application, examination, and graduate application. If the deadlines for examination and graduation application are not met, the student will not graduate that semester. In no instance will a student be admitted to degree candidacy without an approved and completed degree plan on file in the office of the Dean of College of Liberal Arts. Amendments to the degree plan must be proposed by the student and approved by the degree committee or program advisor and the Dean of College of Liberal Arts. Amendments to the degree plan must be proposed by the student and approved by the degree committee or program advisor or college dean.

Transfer of Credit

In addition to the University's general policy on transfer of credit, the following regulations will apply to the MA in English program: Up to 9 semester hours of graduate-level study may be transferred from other regionally accredited institutions of higher education if appropriate to the degree. No course with a grade of less than a "B," and no course that has counted toward the earning of another graduate degree, will be accepted
as transfer credit. Credit that is more than seven years old at the time of graduation will not be counted toward the MA degree.

Good Standing

Students must maintain a 3.0 ("B") grade point average to remain in good standing in the English MA Program. Students whose cumulative GPA drops below 3.0 will be placed on scholastic probation. If, while on scholastic probation, a student's GPA for any semester again drops below 3.0, he or she will be forced to withdraw from the university for at least one year before reapplying for admission. Grades are not replaced when repeated at the graduate level.

For Additional Information

**Website:** http://cla.tamucc.edu/english/pages/english_graduate.html

**Campus address:** Faculty Center (FC), Room 283; phone: (361) 825-3826

English MA Program Coordinator

**Mailing address:**

Department of English, College of Liberal Arts
Texas A&M University-Corpus Christi, 6300 Ocean Drive
Corpus Christi, Texas 78412-5813

**E-mail:** kathryn.santos@tamucc.edu

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**Humanities**

**Master of Arts**

**History, MA**

**Program Description**

This program aims to provide students with advanced knowledge and skills in the content, analytical theories, research methods, and public presentation of history. Students have an opportunity to study topics in European, Latin American, and United States history. The program also encourages students to involve themselves with historical activities and institutions in the metropolitan area.
The MA in History will benefit secondary school teachers seeking to enhance their professional skills and standing. It will also benefit students planning careers in academia, public history, or the professions.

**Student Learning Outcomes**

- Advanced knowledge and skills in content, analytical theories, research methods, and public presentation of history.
- Enhanced breadth of coverage, preparation, and professional skills for post-graduate application of MA in History – secondary schools or Ph.D programs.
- Advanced competency in using archival resources, conducting research, handling primary sources, constructing original historical theses, and effective writing.

**Admission Requirements**

Applicants must comply with all university admissions procedures outlined in the graduate catalog in effect at the time of their seeking admission into the program. They must also satisfy additional history area requirements. The combined requirements are listed below.

Applicants must:

1. Complete at least 6 hours of upper-level undergraduate history credits, with a GPA of 3.0 or better.
2. Submit an application on the appropriate university form to the Office of Research and Graduate Studies.
3. Submit official transcripts of all previous college-level studies to the University’s Office of Research and Graduate Studies.
4. Submit two letters of recommendation, at least one from a professor in the undergraduate major, to the Coordinator of Graduate Studies in History.
5. Submit a writing sample (minimally seven double-spaced pages in length with proper citations) of previous academic work in history to the Coordinator of Graduate Studies in History.

Students who cannot meet the requirements stated above may be accepted for admission if the History Graduate Committee decides this is appropriate.

A history admissions committee chaired by the Coordinator of Graduate Studies in History, and including two additional tenure-line members of the full-time faculty in history, will review the above materials. Basing their decision upon the information contained in all of the above items, the committee will unconditionally admit, conditionally admit, or deny admission. Students with conditional status for one term
may accrue no more than 6 hours of graduate credit towards the MA prior to being formally admitted to the program.

International students must have their credentials evaluated for their equivalent value according to standard university procedure and meet other admissions requirements specified in the graduate catalog.

Degree Requirements

All students must complete their respective requirements with a 3.0 GPA or better, and can earn no more than one “C” grade in their graduate work.

Core Courses (6 semester hours) - All students must complete:

- HIST 5310 - Historiography 3 sem. hrs.
- HIST 5320 - Research Methods 3 sem. hrs.

Supplementary Courses

Exam Track (24 hours)

In addition to the two core courses, students electing the exam track must complete no less than six and no more than eight graduate history courses, and no more than two approved non-history graduate courses.

Thesis Track (24 hours)

In addition to the two core courses, students electing to write a thesis must complete no less than five and no more than six graduate history courses (15-18 hours), no more than one approved non-history graduate course (3 hours), and six hours of HIST 5395 - Thesis.

Students may transfer up to 12 hours of graduate credit from accredited institutions.

Exit Requirements

History graduate students may pursue two tracks to complete their degree based on each student’s career objectives. Both tracks provide advanced historical content and a comprehensive overview of the research and writing methods used by professional historians. Both tracks require students to identify a primary advisor and, with that
advisor, organize an individualized graduate committee. The exam track culminates in a comprehensive exit exam. The thesis track culminates in a written thesis.

The exam track is designed for students for whom the MA is the terminal degree. With the exam track, students must pass a written comprehensive examination during the term of expected graduation. The comprehensive exam requires individualized study based upon a student’s historical interest and course preparation. The student’s three graduate committee members will construct the questions from an agreed upon reading list. The student’s graduate advisor will administer the examination, and the committee will evaluate the examination, designating the performance as a “pass with distinction,” “pass,” or “fail.” Any student who fails the comprehensive examination may retake it once within one calendar year. Failure to pass the examination a second time results in termination from the program.

The thesis track is designed for students who intend to pursue further academic study. Students intending to enter a history doctoral program are strongly encouraged to write a thesis. The history MA thesis requires substantial commitment and ongoing consultation with the student’s graduate advisor. The finished project must demonstrate historical knowledge, analytical ability, and research skills. Students applying to write a thesis will also be required to demonstrate competence in a second language, either by having successfully completed two years of an approved language as an undergraduate, or by successful completion of a language exam.

Students writing a thesis are required to defend the thesis in an oral examination, administered by the student’s three-person Graduate Committee. The candidate’s advisor and thesis director will chair the examining committee. Evaluators will give a grade of “pass with distinction,” “pass,” or “fail.” If the student receives a failing grade, the student may resubmit the project a second time. Failure on the second submission will result in the student’s termination from the program.

Students must complete all requirements for the comprehensive exam or thesis at least one month before scheduled graduation.

Graduate Advisor/Graduate Committee

By the end of a student’s first academic year, he or she will identify a graduate faculty advisor. In conjunction with the academic advisor, students will determine their preferred track. By the end of a student’s second academic year, the student and graduate faculty advisor will identify a graduate faculty committee consisting of no less than two additional tenure-line history faculty.

Degree Plan
The degree plan, signed by the student and graduate faculty advisor, will become official when approved by the Dean, no later than the end of the second year of study. Any courses to remove deficiencies in undergraduate academic preparation will be included, along with the minimum number of graduate hours, in the degree plan and must be taken before any graduate level hours. Exceptions may be made if only three undergraduate hours are required, in which case they may be taken concurrently with a graduate level course.

Internships

Internships will consist of 50 to 100 hours of work with private and public sponsoring agencies in the greater Corpus Christi area. Some internships will be paid by the sponsoring agency; most will not, depending on the resources available to the sponsoring agency. The student, one member of the student’s Graduate Committee, and an administrator in the sponsoring agency, will design the internship. The latter two individuals will supervise the student’s performance during the internship. The student will submit a written report of the experience to the supervising member of the Graduate Committee within one month of the end of the internship. The student’s Graduate Committee will grade the internship report on a credit/noncredit basis, according to the procedure used for evaluating exit requirements described above.

- HIST 5390 - Internship in History 3 sem. hrs.

Transfer of Credit

In addition to the University's general policy on transfer of credit, the following regulations will apply to the MA in History program: Up to 12 semester hours of graduate-level study may be transferred from other accredited institutions of higher education if appropriate to the degree. No course with a grade of less than a "B", and no course that has counted toward the earning of another graduate degree will be accepted as transfer credit. Credit that is more than seven years old will not be counted toward the MA degree.

Graduate Courses

Graduate Courses are listed in the Course Descriptions section of the catalog.

For Additional Information

Website: http://cla.tamucc.edu/humanities/history/history_graduate_program.html
Music

Non-degree

Music Coursework

Graduate Courses

These courses are designed to support graduate programs in other disciplines.

The complete inventory of private studio courses available at the graduate level is far too extensive for inclusion in this document. Anyone desiring information beyond the following outline should contact the Music Department Chair for a complete listing of the individual courses.

Essentially, two studio options are available at the graduate level in most areas of performance.

Psychology and Sociology

Master of Arts

Psychology, MA

Program Description
The Master of Arts (MA) in Psychology program is a 42-43 semester hour program designed to develop mastery of the scientific principles and methods of psychology and their application. Students may elect to take a Clinical Psychology Track or a General Psychology Track. All students are required to take a sequence of core curriculum coursework that emphasizes major academic areas within the discipline of psychology. In addition, students take specialized coursework to either prepare them for the professional application of psychological principles (Clinical Psychology Track) or to conduct psychological research (General Psychology Track). Upon admission, each student will be assigned a faculty advisor who will assist the student with academic decisions during the course of the degree program. During their first semester in the program students will also meet with the Graduate Academic Advisor to develop a degree plan.

Student Learning Outcomes

- Graduates of the MA in Psychology program (both Clinical and General Psychology Track) will demonstrate knowledge of developmental, empirical, physiological and social psychology principals.
- Graduates of the Clinical Track will demonstrate mastery of the basic principles of clinical assessment and their therapeutic application as well as the ethical use of these principles.
- Graduates of the General Psychology Track (and Clinical Track Thesis participants) will be able to conduct independent research of psychological phenomenon as evidenced by successful completion and defense of their thesis in accordance with departmental guidelines.

Admission Requirements

In addition to the university admission requirements outlined for all graduate programs, the MA in Psychology program requires:

- A bachelor's degree in psychology, or a bachelor's degree with 15 semester hours of undergraduate coursework in psychology for unconditional admission. This foundational undergraduate coursework must include general psychology, statistics, experimental psychology, and six hours of upper division psychology electives. [Students may be conditionally accepted into the program contingent upon completion of the required undergraduate courses.]
- A cumulative grade point average (G.P.A.) of no less than 3.0 on a 4-point scale.
- Graduate Record Exam (G.R.E.) scores taken within the last five years from the application date.
• Two letters of evaluation from individuals such as professors and employers who can attest to the applicant's potential for success in a graduate program of study. Letters of evaluation should specifically address the applicant's potential for a successful career as well as qualifications and motivation for graduate study.
• An application essay. Applicants must submit a 500-1000 word essay describing their educational and professional goals as well as their qualifications for graduate study (e.g. academic achievements, research experience, relevant work or volunteer experience, etc.).

Admission Deadline

The Graduate Program in Psychology only accepts students for Fall admission. Application materials should be submitted electronically by following the instructions at: gradschool.tamucc.edu/how_to_apply.html. Materials must be submitted by April 1 for full consideration for Fall admission.

Admission to the Program

Upon receipt of all application materials, the Psychology Masters of Arts Degree Admissions Committee will meet to review the application materials. Only complete applications are evaluated. The committee will review applications for the fall semester only. The committee may choose to admit, conditionally admit, or deny admission, based on the information contained in the application materials.

For unconditional admission, applicants must be a graduate of a regionally accredited university or, if an international student, have the equivalent of an U.S. accredited degree as determined by the Dean of Graduate Studies. Applicants must have completed at least 15 hours of undergraduate psychology and possess an overall grade point average (G.P.A.) of no less than 3.0 on a 4-point scale. [These are minimum requirements; admission to the program is competitive and also dependent upon the size and quality of the overall applicant pool].

Applicants with less than a 3.0 G.P.A. may be admitted to the program if the graduate admissions committee determines that the student's G.R.E. combined verbal and quantitative scores and other application materials compensate for the deficient G.P.A.

Applicants admitted into the program must meet with the Graduate Academic Advisor to develop an initial degree plan. The degree plan indicates whether foundational coursework is required and outlines the prescribed graduate coursework, examinations, and other requirements needed to complete the MA in Psychology degree.
Conditional Admission

At the discretion of the admissions committee, students who have not completed all of the required undergraduate courses (general psychology, statistics, experimental psychology, and 6 hours of upper division electives) may be conditionally accepted into the program contingent upon completion of the required undergraduate courses.

Degree Requirements

There are two degree tracks for the MA program in Psychology: 1. Clinical Psychology Track (43 semester hours/non-thesis) and 2. General Psychology Track (42 semester hours/thesis required). The tracks share core coursework designed to provide foundational coursework in psychology upon which to build more specialized clinical training and research related educational experiences.

1. **Clinical Psychology Track** (non-thesis): The primary education and training mission of the Clinical Track is to provide a program of study with an applied clinical emphasis to prepare students for the practice of psychology or counseling at the masters level of licensure. Students will complete the required core curriculum, clinical preparation courses, and will receive supervised clinical practicum experience as part of their training. Upon completion of the program, Clinical Track graduates will meet the necessary qualifications to take the Texas State Board of Examiners of Psychologists examination for certification as a Licensed Psychological Associate (LPA). With additional coursework and experience, graduates may elect to take the Licensed Professional Counselor (LPC) or Licensed Specialist in School Psychology (LSSP) examinations. Following licensure, graduates typically work under the supervision of a licensed psychologist, or as independent practitioners in a variety of public agency and private settings.

   Students who complete the Clinical Track may also elect to complete a thesis option in addition to their required coursework. This option may be best suited to those students who wish to pursue advanced clinical training at the doctoral level. In general, students who complete the Clinical Track with a thesis option can expect to take longer to complete the required program of coursework.

2. **General Psychology Track** (thesis required): The purpose of the General Psychology Track is to provide a program of study with a research emphasis. In addition to the required coursework, students will conduct an empirical master's thesis under the direction and supervision of the student's thesis committee. Graduates who complete the General Psychology Track typically pursue research-oriented doctoral programs or employment in various nonclinical positions within
private industry. The General Psychology Track option does not include supervised clinical experience and thus does not prepare the student for any form of clinical licensure.

Course Requirements (42-43 semester hours)

Required Core Courses (12 credit hours/Clinical and General Track)

The four core courses (12 credit hours) must be taken within the first 24 credit hours of graduate study.

- PSYC 5321 - Biological Bases of Behavior 3 sem. hrs.
- PSYC 5323 - Advanced Social Psychology 3 sem. hrs.
- PSYC 5324 - Advanced Developmental Psychology 3 sem. hrs.

Clinical Track Required Courses (31 semester hours)

In addition to the core courses, Clinical Track students are required to complete the following:

- PSYC 5322 - Advanced Personality Theories 3 sem. hrs.
- PSYC 5341 - Graduate Psychopathology 3 sem. hrs.
- PSYC 5443 - Intellectual Assessment 4 sem. hrs.
- PSYC 5344 - Personality Assessment 3 sem. hrs.
- PSYC 5350 - Introduction to Psychotherapy 3 sem. hrs.
- PSYC 5398 - Clinical Practicum 3 sem. hrs. (6 credit hours/two semesters)
- Electives 9 sem. hrs. (9 credit hours/advisor approval)

Course Sequence for the Clinical Track:

Required:

- PSYC 5341 - Graduate Psychopathology (3 sem. hrs.) must be completed before PSYC 5350 - Introduction to Psychotherapy

Recommended:

- PSYC 5443 - Intellectual Assessment (4 sem. hrs.) and PSYC 5344 - Personality Assessment should be taken before or concurrent with PSYC 5398 - Clinical Practicum.
- PSYC 5350 - Introduction to Psychotherapy (3 sem. hrs.) should be taken before or concurrent with PSYC 5398 - Clinical Practicum and toward the end of the student's program.

General Psychology Track Required Courses (30 credit hours)

In addition to the core courses, General Psychology Track students are required to complete the following:

- PSYC 5325 - Advanced Cognitive Psychology 3 sem. hrs.

- PSYC 5341 - Graduate Psychopathology 3 sem. hrs. OR
- PSYC 5322 - Advanced Personality Theories 3 sem. hrs.

- PSYC 5395 - Thesis 3 sem. hrs. (6 credit hours/3 credit hours taken during the development of the thesis proposal and 3 credit hours taken during the completion of the thesis)
- Electives 18 sem. hrs. (18 credit hours as approved by the student’s faculty advisor)

Additional Requirements

Written Comprehensive Examination

Each student admitted to the program is required to pass a written comprehensive examination covering material presented in three of the four core curriculum courses (Advanced Developmental, Biological Bases of Behavior, and Advanced Social). The Written Comprehensive Examination will be offered once a year during the spring semester, and should be taken at the end of the first year when the student has completed or is registered for and is in the process of successfully completing the courses covered on the comprehensive exam (Advanced Developmental, Biological Bases of Behavior, and Advanced Social). The written comprehensive examination must be attempted within the first 24 hours of graduate study, and successful completion is a prerequisite for enrolling in practicum training (for Clinical Track students) or the second set of thesis hours (for General Psychology Track students). Students who fail the examination (failing one or more sections of exam with a score of less than 3 on a 5-point scale) will be allowed to retake the examination in its entirety twice. Students who fail the examination are required to retake the examination at the next scheduled examination time. At the discretion of the department, retakes of the comprehensive examination will be offered during the fall semester. Three failures of the comprehensive exam will result
in termination from the program. Details about the grading procedure are available from the Psychology Graduate Program Coordinator.

Practicum

Students who complete the Clinical Track will participate in two practicum placements as part of their clinical training. In order to register for practicum, a student must successfully pass the written comprehensive examination. Students must apply for practicum the semester before they intend to register for it. The Practicum Supervisor will arrange the assignment of the student to a practicum training facility during those semesters the student registers for practicum, and will have overall responsibility for supervising and evaluating the student's performance.

General Psychology Track/Thesis

Students electing the General Psychology Track, or Clinical Psychology Track students who elect to complete a thesis in addition to their clinical coursework, are encouraged to begin thesis work as soon as possible after being admitted to the program. In consultation with their assigned advisor, the student will select a thesis committee consisting of a chair (primary thesis advisor) and two additional university faculty. The chair and one of the members must be full time graduate faculty members within the psychology department. The student is expected to work closely with the committee chair when selecting appropriate course work and designing and executing the thesis research project (See coursework requirements for the General Psychology Track). In lieu of specialized and supporting clinical course work, the student should take courses related to the implementation of his/her thesis research including Directed Individual Study credits, and psychology or other graduate courses that are relevant to the thesis topic.

In consultation with the thesis committee, the student will develop a thesis research proposal. Once the proposal is approved by the chair of the thesis committee, a proposal defense meeting will be scheduled. The student should distribute copies of the proposal to the committee members at least one week prior to the time of the proposal defense meeting. Upon successful completion of the thesis proposal meeting, the student will obtain permission (if applicable) of the institutional review board (IRB) to begin collecting data. When permission is granted, the student will collect data and complete the final thesis manuscript. Once the manuscript is complete, a final thesis defense meeting will be scheduled. The chair of the thesis committee is responsible for scheduling and administering the thesis proposal and final oral defense. The final thesis defense is graded “pass” or “fail.” The student may retake the final oral examination once, with a second failure resulting in termination from the program. When the final version of the thesis is completed and all committee members have "signed off"
(approved the document), the student is required to submit three bound copies (with original signatures) of the completed thesis to the Graduate Coordinator at least two weeks prior to the date of graduation.

Exit Requirement for General Psychology Track and/or Students Completing a Thesis

A final oral thesis defense will be required of all students completing the General Psychology Track and/or a thesis. Upon successful completion of the thesis defense, the student will submit three bound copies of the completed thesis, including thesis committee signatures, to Psychology Graduate Coordinator.

Exit Requirement for Clinical Track

For Clinical Track students, an oral examination will be given toward the end of the program over a therapy and testing case conducted during their practicum placement. Students are required to prepare a comprehensive written analysis of the case which will be presented during the oral examination with the faculty. Development of this presentation will be under the direction of the practicum faculty supervisor and the final draft of the paper must be approved before the oral exam. The practicum faculty supervisor is responsible for scheduling and administering the oral examination. The oral examination is graded as "satisfactory", "conditional" or "re-examination required." If deficiencies are identified during the exam, additional requirements may be added for successful completion of this requirement and may include, but are not limited to: repeating the examination, resubmission of written examination materials, or repeating a practicum placement. The student may retake the oral examination once, with a second failure resulting in termination from the program.

Grade-Point Average

A minimum grade-point average of 3.0 (“B”) on a 4 point scale in all graduate-level work taken at this university is required for graduation. In addition, a minimum grade-point average of 3.0 (“B”) is required in all psychology courses (PSYC prefix) taken at the graduate level. No grade of less than “C” and no more than two “C’s” earned at this university will be accepted as credit for any master’s program (please see graduate academic and degree requirements in the graduate catalog). Students receiving more than two grades of “C” in their coursework will be terminated from the program.

Registration Restrictions
Students who have not been accepted into the MA Psychology program (Non Degree Seeking Students or students enrolled in other programs) may enroll in PSYC 5301, PSYC 5321, PSYC 5322, PSYC 5323, or PSYC 5324. Students who enroll in these courses must satisfy the course prerequisites (see course descriptions). Permission of the instructor is required for enrollment in any other graduate course in Psychology.

For Additional Information

**Website:**  http://psychology.tamucc.edu

**Physical address:**  Bay Hall Room 311; phone: (361) 825-2971

**Mailing address:**  Department of Psychology and Sociology, Mailstop 5827, College of Liberal Arts
Texas A&M University-Corpus Christi, 6300 Ocean Drive
Corpus Christi, Texas 78412-5827

**E-mail:**  amy.houlihan@tamucc.edu

**Social Sciences**

**Master of Public Administration**

**Public Administration, MPA**

**Program Description**

The Master of Public Administration (MPA) program is designed to prepare students for managerial careers in the public and not-for-profit sectors of the economy. The MPA has been designed to meet the needs of full-time employees wishing to earn their degree through part-time study. Students in the program will take a core of seven courses in order to increase their understanding of administrative theory, policy making, data analysis, public budgeting and finance, and human resource management.

Additionally, each student will select one of three program tracks, which specify the remaining course work in their program. The student may choose from specialized tracks in public management, healthcare administration, and public safety.

**Student Learning Outcomes**
Students will:

- Demonstrate knowledge and understanding of the underlying concepts and principles of public administration and the ability to evaluate and interpret them in the context of the Texas Coastal Bend community, the state and the nation;
- Demonstrate the ability to interpret, evaluate and present qualitative and quantitative data, develop lines of argument and make sound judgments in accordance with theories and concepts of public administration;
- Evaluate the appropriateness of policy and management options related to the public sectors and communicate results accurately, reliably and with structured coherent arguments;
- Conduct and implement budgeting operations, policy and program analysis; and
- Value lifelong learning in order to develop new skills within a public management environment.

Admission Requirements

In addition to the admission requirements outlined for graduate programs, the MPA program requires the following:

- Transcripts of all undergraduate and graduate work undertaken from regionally accredited universities.
- Two letters of evaluation from individuals such as professors and employers attesting to the applicant's potential for success in a graduate program of study. Letters of evaluation should specifically address the applicant's potential for a successful career and motivation for graduate study.
- A 300-500 word essay describing work experience, educational goals, professional goals, languages spoken and any other material that would be relevant. The essay should also address the reasons and motivations for seeking an MPA degree.
- A full resume.

Applicants accepted into the program must develop an initial degree plan that is approved by the MPA Coordinator. The student then will be assigned a faculty advisor.

The Admission Decision

Basing their decision on the information contained in all items listed above, the MPA committee will unconditionally admit, conditionally admit, or deny admission to the MPA program. Only complete applications are evaluated. For full consideration of admission and scholarships, a completed admissions packet must be received by April 15th for Fall semester admissions; by October 15th for Spring admissions. For
unconditional admission, applicants must be a graduate of a regionally accredited university or, if an international student, have the equivalent of a U.S. accredited degree as determined by the Dean of Graduate Studies. Applicants must have an overall grade point average (GPA) of no less than 3.0 on 4-point scale. Applicants with less than a 3.0 GPA may be conditionally admitted to the program if the graduate admissions committee determines that the student's other application materials compensate for the deficient GPA.

**Conditional Admission**

Applicants who lack certain requirements for unconditional admission may be accepted in the conditional admission category. Those approved for conditional admission are required, during their first nine semester hours of work toward the degree, to earn a "B" or better in PADM 5301; PADM 5302; and PADM 5311. To earn unconditional admission in the MPA program, the student must earn a grade of at least "B" in each of the three courses without earning a grade of "C" or lower. Failure to attain a grade of "B" or higher in each of these courses, or to successfully complete all program basic proficiency requirements, will result in enforced withdrawal from the program. In special circumstances, the Admissions Subcommittee may also make conditional admission contingent on other additional requirements as it sees fit. Any additional requirements will be specified in writing to the student.

**Certificate Seeking**

This category includes students who may enroll in graduate coursework to meet personal or career goals and seek a Graduate Certificate in a specialized field of Public Administration. These admission criteria are addressed in the Graduate Certificate in Public Administration section.

**Non-Degree Seeking**

This category includes students who may enroll in graduate coursework to meet personal or career goals. For the MPA program, students in this category will be restricted to enrolling only in the MPA core courses.

**Degree Plan**

During the first semester after qualifying for acceptance into the MPA program, a degree plan should be developed for approval by the Graduate Coordinator. The degree plan
should be prepared by the student in consultation with the advisor and indicate the course work required for conferral of the MPA degree, including any basic proficiencies (see below) and internship hours where appropriate.

Prerequisites

At the discretion of the MPA Graduate Coordinator, applicants lacking the basic proficiencies described above or public sector experience may be required to complete up to 12 semester hours of upper-level undergraduate credit before being admitted to the program.

Basic Proficiencies

a. Statistics: Students who have not successfully completed a college statistics course must do so in their first semester in the MPA program. Students lacking an undergraduate statistics course can meet this requirement through successful ("B" or better) completion of an approved course in statistics. See your advisor to determine an appropriate course to meet your needs. This basic statistics requirement is in addition to the 36 semester hour program of graduate courses leading to the MPA.

b. Writing Competency: Students must demonstrate a minimum writing ability suitable to graduate work early in their course work toward the MPA. Competency will be assessed through a brief composition test. Students judged deficient in writing skills can meet this requirement through successful ("B" or better) completion of an approved composition course. See your advisor to determine an appropriate course to meet your needs. This basic writing requirement is in addition to the 36 hour program of graduate courses leading to the MPA.

c. Computer Literacy: Students must provide evidence of computer literacy during their first semester in the MPA program. This can be done through evidence of successful ("B" or better) completion of a basic undergraduate computer skills course, or through documentation of significant practical work experience with computer software packages. See your advisor to determine an appropriate course to meet your needs. This basic computer literacy requirement is in addition to the 36 hour program of graduate courses leading to the MPA.

Degree Requirements
The Master of Public Administration degree requires a minimum of 36 hours of graduate academic course work.

MPA Seven Required Courses (21 sem. hrs.)

Each student must successfully complete:

- PADM 5301 - Theory and Practice of Public Administration 3 sem. hrs.
- PADM 5302 - Policy Making and Public Administration 3 sem. hrs.
- PADM 5305 - Public Budgeting and Finance 3 sem. hrs.
- PADM 5310 - Public Organizations 3 sem. hrs.
- PADM 5311 - Research Methods in Public Administration 3 sem. hrs.
- PADM 5365 - Seminar in Public Administration - Capstone 3 sem. hrs. *

*All MPA core courses must have been completed before the capstone course is taken.
Course is to be taken in the last term prior to graduation.

Program Tracks

In addition to the seven courses above, each student must successfully complete one of the following specific program tracks:

Health Care Administration Track

Students who elect a focus on health care administration will take, in addition to the core, the five following courses:

- HCAD 5312 - The Health Care System 3 sem. hrs. *
- HCAD 5325 - Health Care Financial Management 3 sem. hrs.
- HCAD 5330 - Health Law and Ethics 3 sem. hrs.
- HCAD 5390 - Health Care Selected Topics 3 sem. hrs.

*It is strongly recommended that this course be taken before the others in HCAD track if at all possible.

Public Management Track

Students who choose this broad and general preparation will take, in addition to the core:
Five public management courses (15 sem. hrs.)

- PADM 5300 - U.S. Government institutions 3 sem. hrs.
- PADM 5303 - Administrative Ethics 3 sem. hrs.
- PADM 5306 - Public Sector Fiscal Management and Analysis 3 sem. hrs.
- PADM 5308 - Administrative Law 3 sem. hrs.
- PADM 5331 - Managing the Non-profit Organization 3 sem. hrs.
- PADM 5335 - Program Evaluation 3 sem. hrs.
- PADM 5360 - Strategic Planning 3 sem. hrs.
- PADM 5370 - Topics in Public Administration 3 sem. hrs.
- PADM 5396 - Individual Study 3 sem. hrs.
- PADM 5397 - Internship 3 sem. hrs.

Public Safety Track

Students who elect a focus on public safety within the MPA program will take, in addition to the core:

Five public safety courses (15 sem. hrs.) selected from the following

- COSC 5374 - Computer Forensics 3 sem. hrs.
- COSC 5376 - Network Security 3 sem. hrs.
- CRIJ 5302 - Foundations of Criminal Justice 3 sem. hrs.
- CRIJ 5310 - Seminar in the Judicial Process 3 sem. hrs.
- CRIJ 5320 - Correctional Theory and Policy 3 sem. hrs.
- CRIJ 5330 - Seminar in Juvenile Justice 3 sem. hrs.
- CRIJ 5351 - Seminar in Criminal Justice Management 3 sem. hrs.
- CRIJ 5380 - Issues in Justice Administration 3 sem. hrs.
- CRIJ 5396 - Individual Study 3 sem. hrs.
- PADM 5335 - Program Evaluation 3 sem. hrs.
- PADM 5370 - Topics in Public Administration 3 sem. hrs.
- PADM 5381 - Modern Terrorism and Counter Terrorism 3 sem. hrs.
- PADM 5382 - Emergency Management and Disaster Planning Practicum 3 sem. hrs.
- PADM 5396 - Individual Study 3 sem. hrs.
- PADM 5397 - Internship 3 sem. hrs.

Completion Requirements

Successful completion of the MPA degree involves the following conditions:
1. Completion of all 36 semester hours for graduation within a seven-year time period. The 36 semester hours must be those specified in an approved degree plan.

2. Completion of 24 of the required 36 semester hours in residence at this university. Only 12 semester hours may be transferred from accredited institutions. No grade of "C" or lower may be transferred. No correspondence courses may be transferred at the graduate level. Credit from a degree earned at another institution will not be applied to a second master's degree at Texas A&M University-Corpus Christi.

3. The student must maintain a graduate grade point average of 3.0 in all courses in the approved MPA degree plan or accepted by approved waiver, and in all graduate work taken at this university. Students receiving more than two grades of "C" in their coursework will be terminated from the program.

4. The student is making satisfactory academic progress if courses identified on the degree plan are being completed and a grade point average of 3.0 is maintained. Satisfactory progress is also reflected by a return to a grade point average of 3.0 or higher for students who had been placed on scholastic probation.

5. Students should apply for graduation early in the term in which they intend to complete their final semester credits.

6. Successful completion of the capstone course, PADM 5365 - Seminar in Public Administration - Capstone, in the last term prior to graduation. All MPA core courses must have been completed before the capstone course is taken.

Certificates in Public Administration

Graduate Academic Certificate Programs In Public Administration

1. **Role of Academic Certificate Programs in Public Administration at Texas A&M University – Corpus Christi**

   The Public Administration Program at Texas A&M-Corpus Christi offers academic certificate programs for graduate credit. The graduate academic certificates enhance existing bachelor's or master's degrees in ways that will make Texas A&M University-Corpus Christi a life-long center of graduate education for the citizens of Texas, the nation, and the world.

   The Public Administration graduate credit certificate programs are an option for individuals who do not need a master's degree, or who wish to combine a specialization in public administration with master's degree they have already earned or will earn. Students may want to earn certificates in public administration in order to enhance their careers with government and/or non-profit organizations.
2. **Application Process**

Students applying for graduate certificate programs in public administration must submit the following:

- A Texas Uniform Application for Graduate School for Texas A&M-Corpus Christi
- Official undergraduate and/or graduate transcripts
- Two letters of evaluation attesting to the applicant's potential for success in this program of study.
- A two page statement explaining the student's reasons for applying

3. **Admission Standards**

Students applying to Certificate programs have the same admissions requirements as for those applying for admission to the MPA Degree. This includes those that have been accepted into another regionally accredited graduate studies program or have received a graduate degree. Texas A&M-Corpus Christi graduate students outside the MPA program may apply for admission into the certificate program if they have a GPA of 3.0 or higher and if they submit the following:

- Current graduate transcripts
- Application for Admission Form for Certificate Program
- Brief essay outlining reason for seeking admission into the program

4. **General Prerequisites for the Graduate Certificate**

1. **Writing Competency:** Students must demonstrate a minimum writing ability suitable to graduate work early in their course work toward the graduate certificate in. Students must have completed ENGL 3301, *Technical and Professional Writing*, or ENGL 5376, *Professional Writing*, or equivalent course before being admitted into the program. Writing competency will be assessed by the student essay submitted during the application process and by a review of the student transcripts. Students judged deficient in writing skills can meet this requirement through successful ("B" or better) completion of an approved composition course. This basic writing requirement is *in addition* to the 15 hour program of graduate courses leading to the certificate.

2. **Political Science Competency:** Students must have a basic understanding of U.S. government and politics. Thus, students must have completed POLS 2305, *U.S. Government and Politics* or its equivalent in the past five years before being admitted into this program.

   At the discretion of the Program Coordinator, applicants lacking the basic proficiencies described above may be required to complete up to 9
semester hours of upper-level undergraduate credit before being admitted to the program. After earning the Certificate, if students wish to continue taking credit hours they must change their status to seeking an MPA degree so they can continue registering in graduate public administration courses.

Current Certificate Program offered by the MPA program is "Emergency Management."

Graduate Certificate in Emergency Management Program Description

The Graduate Certificate in Emergency Management is designed to educate students using an all-hazards emergency management model and is meant to prepare future public administration professionals to cope with all natural, accidental and manmade hazards. Upon successful completion of this program, students will:

- Demonstrate an understanding of mitigation, preparedness, response and recovery strategies for a broad range of natural hazards, technological hazards, and terrorism.
- Design and modify plans and programs at federal, state, and/or local levels to reflect the evolving strategic policy issues associated with a statutory and presidential direction for homeland security.
- Analyze terrorist groups' proclivities in order to forecast the risks, types, and orders of magnitude of terrorist threats most likely to confront the nation-state, our state and our region.
- Develop policies, procedures, and protocols to allow seamless agency integration from prevention to incident response and recovery scenarios.
- Recognize the multidisciplinary nature of homeland security functions and be able to assess and integrate various functional areas.

Students who elect to obtain a graduate certificate in emergency management will take the following core classes (6 semester hours):

- PADM 5301 - Theory and Practice of Public Administration 3 sem. hrs.
- PADM 5302 - Policy Making and Public Administration 3 sem. hrs.

In addition to two core classes, students must also take three courses (9 semester hours) from any of the courses listed below:

- CRIJ 5351 - Seminar in Criminal Justice Management 3 sem. hrs.
- CRIJ 5380 - Issues in Justice Administration 3 sem. hrs.
- CRIJ 5396 - Individual Study 3 sem. hrs.
• PADM 5335 - Program Evaluation 3 sem. hrs.
• PADM 5380 - Homeland Security and Public Administration 3 sem. hrs.
• PADM 5381 - Modern Terrorism and Counter Terrorism 3 sem. hrs.
• PADM 5382 - Emergency Management and Disaster Planning Practicum 3 sem. hrs.
• PADM 5396 - Individual Study 3 sem. hrs.
• PADM 5397 - Internship 3 sem. hrs.

For Additional Information

Website: http://cla.tamucc.edu/socialsciences/public_administration/master_in_public_administration.html

Campus address: Bay Hall 301; phone: (361) 825-2188

Mailing address: Department of Social Sciences, College of Liberal Arts
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5826

E-mail: melissa.jarrell@tamucc.edu

Theatre and Dance

College of Nursing and Health Sciences

College of Nursing and Health Sciences

Certificates

Nursing Degrees
• Nursing, MSN
• Nursing, DNP

Health Care Administration Certificate
Family Nurse Practitioner Post-Masters Certificate
Leadership in Nursing Systems Post-Masters Certificate
Nurse Educator Post Masters Certificate

Non-Degree
Leadership in Nursing Systems Minor
Nurse Educator Minor

Mission
The College of Nursing and Health Sciences, positively impacts the health of the global population through the education of health care leaders and providers of tomorrow, with innovative educational programs in the nursing and health professions. The College identifies, attracts, and graduates students of high potential, especially from groups who have been historically under-represented in the organization, and provision of health care. This work is enhanced through faculty contributions to community service, leadership, practice, and research. These activities are fostered in a collaborative, interprofessional, and multicultural learning environment, promoting a sense of community and caring.

**College of Nursing and Health Sciences Goals**

The goals of the College of Nursing and Health Sciences assist the College in implementing the University and College missions.

1. To develop within the student the knowledge and skills necessary for beginning professional and advanced nursing practice, cultivating basic and specialized abilities needed to successfully pursue a career, and
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, and
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, and
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, and
5. To build a foundation for doctoral education, and
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.

**Graduate Program**

The College of Nursing and Health Sciences offers course work leading to the Master of Science in Nursing degree, and the Doctor of Nursing Practice degree. Additionally, the college offers graduate courses in Health Care Administration. All of the graduate nursing courses and several of the health care administration courses, are delivered
through online technology only. Contact the Graduate Nursing Department Chair to confirm course delivery format.

The TWU-TAMUCC PhD in Nursing Cooperative program supports the development of nurse scholars for academic and research positions. Students must be admitted to the Texas Woman's University-Denton Doctor of Philosophy in Nursing Science to participate in this cooperative.

**Nursing**

**Graduate Certificate**

**Health Care Administration Certificate**

**Program Description**

Graduate courses in health care administration are offered in support of the graduate degrees in nursing, public administration, and business administration. For details concerning the degree programs, consult the appropriate sections of the catalog. A Certificate in Health Care Administration is available for those students who hold a master's degree in another field and wish to complete a short course of study focused on health care administration.

The Health Care Administration (HCAD) certificate program meets the U.S Department of Education definition of a Gainful Employment program. The program prepares individuals to enter the U.S Department of Labor's Standard Occupational Classification (SOC) code Medical and Health Services Managment (SOC code 11-9111.00). An explanation of the Gainful Employment status is available on the College web site: http://conhs.tamucc.edu.licencencert.html.

**Student Learning Outcomes**

Students will:

- Demonstrate a thorough understanding of the theoretical and practical aspects of the health care delivery system from a historical, comparative, economic, cultural, and ethical perspective.
- Employ a variety of business and management skills and techniques including marketing, financial management, law, and information management to effectively and efficiently advance the goals of the organization.
• Demonstrate creativity in defining, negotiating and solving problems.
• Communicate and educate, using the most current information and communication technology.

Admission Requirements

Admission requirements for the certificate program are as follows:

• Master’s degree from an accredited college or university.
• Admission to the University.

Certificate Requirements

A Certificate in Health Care Administration may be earned through completion of any five of the following six courses:

• HCAD 5312 - The Health Care System 3 sem. hrs.
• HCAD 5320 - Health Economics and Policy 3 sem. hrs.
• HCAD 5330 - Health Law and Ethics 3 sem. hrs.
• HCAD 5390 - Health Care Selected Topics 3 sem. hrs.
• HCAD 5396 - Directed Independent Study 3 sem. hrs.
• HCAD 5325 - Health Care Financial Management 3 sem. hrs.

For Additional Information

Website: http://conhs.tamucc.edu/
Campus Address: Island Hall, Room 322, phone 825-5893
Mailing Address: Graduate Department
College of Nursing and Health Sciences
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5805

Master of Science

Nursing, MSN

Program Description
The Master of Science in Nursing degree program enhances and expands the clinical competence of baccalaureate nurses. The focus of the program is to prepare nurses for advanced nursing practice in nursing leadership or as family nurse practitioners, or for the functional role as nurse educators. Emphasis is placed on facilitating health care delivery within a multicultural framework. The graduate nursing curriculum includes four core courses and specific courses related to role specialization. Three minor areas of study are also available for students seeking to refine their skills as leaders/managers, practitioners, or educators. The variety of learning opportunities and the flexibility of options provided by the curriculum will accommodate the diverse clinical and functional interests of students who enroll in the program. Each specialty area of study includes courses with clinical laboratory components that whenever possible, can be completed in the communities where students reside. In some cases students may have to travel to clinical agencies to access experiences essential to course objectives. The lecture component in all of the graduate nursing courses is offered online. See the semester class schedule for details.

**Student Learning Outcomes**

Students will:

- Critically analyze, interpret, and integrate appropriate knowledge, research and theories to meet the health care needs of diverse populations;
- Apply competent leadership and collaborative skills as members of a multi-professional health care workforce to promote high quality and safe patient care;
- Design evidence-based plans to sustain quality initiatives that promote a transparent professional environment and contribute to the delivery of safe high quality care;
- Integrate research into professional practice through the implementation of translational processes;
- Demonstrate competence and accountability as clinicians, educators, and leaders in advanced healthcare roles;
- Model caring, sensitivity and respect in the delivery of health care to culturally diverse populations;
- Operationalize principles of ethical, legal, financial and economic theories as applied to health care delivery systems;
- Guide the adoption and use of information, communication technologies and resources to document patient care and improve patient outcomes.
- Evaluate the effect of legal and regulatory processes on nursing practice, healthcare delivery, and outcomes using critical analysis of policies that influence health services.
The expected outcomes for the Master of Science Degree in Nursing are also published in the *College of Nursing and Health Sciences Student Handbook*.

**Admission Requirements**

Registered nurses have three entry options to the Master of Science in Nursing program. Individuals who have earned a Master's of Science in Nursing degree but would like to acquire a new specialty area of practice may apply to the College post-master's certification programs. For admission to any of the College programs all applicants must:

1. Complete an application to the University for admission to graduate study and to the MSN Program for degree student status. Application should be made through the College of Graduate Studies. See the Admissions section of the catalog.
2. Provide evidence of a current valid unencumbered licensure as a registered nurse with authorization to practice in Texas.
3. Have earned a satisfactory grade point average (4.0 scale): 3.00 GPA on the last 60 semester hours.
4. Write an original essay describing professional goals associated with graduate nursing education. Guidelines for this essay are available at [https://gradschool.TAMU-CC.edu/forms/conhs_graduate_form.php](https://gradschool.TAMU-CC.edu/forms/conhs_graduate_form.php).
5. Submit three letters of recommendation from individuals who can address their potential for graduate study. At least one of these references should be from an individual who can address an applicant's level of professional competence.
6. Provide a current resume that delineates an applicant's professional contributions and work experiences and contains sufficient information to represent the applicant's accomplishments in nursing. The resume should include information about an applicant's professional activities outside the work place. Guidelines are available at [https://gradschool.TAMU-CC.edu/forms/conhs_graduate_form.php](https://gradschool.TAMU-CC.edu/forms/conhs_graduate_form.php).
7. Additional information will be required from applicants before full admission can be granted. Applicants must demonstrate compliance with Texas Administrative Code immunization for health professional student regulations, Texas Board of Nursing disclosure of criminal history or disciplinary action, and affiliated clinical agency requirements for access to clinical experiences. Details are outlined under the Program Requirements section below.

The Graduate Nursing Department Admission, Progression, and Graduation (APG) Committee will consider the information provided in the application and supporting documents for admission decisions. After due consideration the APG Committee may permit a student who wishes to pursue the Master of Science in Nursing degree, but does not meet the requirements for admission to the Graduate Nursing Program, to enroll on a conditional status. Contact the Graduate Nursing Academic Advisor for instructions on
requesting waivers to the admission requirements. Progression through the program will require a student meet the conditions associated with admission within the timeframe designated if a waiver is granted.

Students who request to transfer into the TAMU-CC MSN program from another program must submit evidence that they left their former institution in good standing before an admission decision will be made.

Except in rare situations applications for the Family Nurse Practitioner specialty area of study will only be reviewed for a fall semester admission.

**Program Options**

MSN Degree. Registered nurses who want to earn a Master of Science in Nursing degree may enter the graduate program through one of three entry options. These options include the BSN (also referred to as traditional), RN-Bridge, and RN-MSN options.

Applicants who have earned a BSN from an accredited program can start graduate course work upon admission to the MSN program. Applicants who are registered nurses with baccalaureate degrees in disciplines other than nursing can enter the MSN program through RN-Bridge option. Students must complete undergraduate level courses before they can begin graduate courses that lead to the MSN. The 18 hours of RN-Bridge undergraduate courses include:

- NURS 3435 Health Assessment 4 sem. hrs.
- NURS 4318 Nurse as Research Consumer 3 sem. hrs.
- NURS 4560 Nursing Care of Community 5 sem. hrs.
- NURS 4671 Leadership/Management 6 sem. hrs.

Articulation agreements exist between A&M- Corpus Christi and associate degree nursing programs to support student access to this MSN entry option. Registered nurses who have earned a diploma or associate degree in nursing from an accredited program and who meet all other requirements for admission into the MSN degree program are eligible to apply for the RN-MSN entrance option. Students who enter the MSN program through this option will not earn a bachelor's degree in nursing at any stage of their course work.

The RN-MSN student must complete 58 credit hours of designated general education and support courses in accordance with the A&M-Corpus Christi University Core Curriculum transfer policy requirements and the Bachelor of Science degree requirements for prescribed support courses, as specified in the Undergraduate Catalog. Equivalency tables are available showing which general education and nursing courses will be accepted for transfer to meet these required hours.
Prior to beginning master's level course work, the RN-MSN student must complete the following prescribed course work:

- NURS 3435 Health Assessment (may complete through Challenge Examination) 3 sem. hrs.
- NURS 4324 Nurse as Caregiver (may complete through Challenge Examination) 3 sem. hrs.
- NURS 4560 Nursing Care of Community 5 sem. hrs.
- NURS 4671 Leadership/Management 6 sem. hrs.
- NURS 4318 Nurse as Research Consumer 3 sem. hrs.

Course work completed by students in the RN-MSN program may transfer to the undergraduate RN-BSN track when students decide they are unable to maintain the accelerated pace of the RN-MSN track. Students may not reenter the RN-MSN track once they have withdrawn from this option.

**Post Masters Certification.** Post-masters certification is available for students that have earned their MSN Degree. Certification will allow registered nurses to expand their scope of practice beyond the role or population focus associated with their current credentials. Post-Masters-Certification-Only students automatically will be considered to have completed the MSN core courses based on the completion of the master's degree. All progression requirements apply to students enrolled in this program. See Role Specialization Section for available list of minor or post masters areas of study.

**Non-degree-seeking students.** Non-degree status is designated for the student who wants to enroll in graduate course work to meet unique personal or career goals that do not lead to a graduate degree or certification. Colleges may place restrictions on the enrollment of students admitted in this status. Students must see a nursing advisor and the graduate nursing department chair to discuss their educational career goals.

**Graduation Requirements**

1. Course work
   
   | Core Courses | 12 |
   | Nursing Specialty Courses | 25-37 |
   | Thesis Option (optional) | 0-6 |

   Total: 37-55 credits required

2. Thesis
Students may negotiate to complete a thesis in lieu of a capstone course in some specialty areas of study. Other students may choose to enroll in an additional 6 semester hours in order to complete a thesis. Each student in the thesis track must take a final oral exam during the last semester. The student's graduate committee will administer the exam. It will cover topics related to the thesis as well as broad aspects of nursing. The student is responsible for scheduling the exam with the faculty involved. A student who fails the final oral exam may repeat it once, but may not repeat the exam until after an interval of four months or more. If a student fails the second oral examination, she/he will be terminated from the program.

The TAMU-CC College of Graduate Studies Recency of Credit rule requires that all credit earned for a graduate degree must be completed within seven years of the first semester in which a student is enrolled in a graduate program. This requirement means that students are expected to complete their MSN program in seven years. In rare situations, an exception to this seven-year policy may be granted from the Dean for the College Graduate Studies when a student is unable to complete courses in this time period. The student must complete a request with an explanation as to why the exception should be made as soon as the student determines that courses will not be completed within this time frame. The request should be submitted to the Graduate Nursing Department Academic Advisor and the Graduate Nursing Department Chair.

**Program Requirements for all Nursing Graduate Students**

The following program requirements apply to all nursing graduate students upon admission and throughout program of study. Students must:

1. Have completed an undergraduate nursing program or earned a diploma from an NLNAC or CCNE accredited school of nursing.
2. Successfully complete (with a grade "C" or above) a course in statistics
3. Hold current unencumbered licensure as a registered nurse with authorization to practice in Texas
4. Upon admission to the College, complete a criminal background check.
5. Complete a ten panel non-chain of custody urine drug screen.
6. 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.
7. Meet Texas Department of State Health Services immunization requirements for students in health professions programs. Students must complete and present evidence that immunizations are complete and current prior to starting classes.
Immunizations must remain current throughout the program. Students will not be allowed into courses or clinical laboratory agencies if evidence of compliance is missing. These requirements, as stated in the Texas Administrative Code, Title 25, Part 1, Chapter 97, Subchapter B, Rule 97.64 include the following:

a) "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."

b) "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."

c) "Polio vaccine is not required. Students enrolled in health-related courses are encouraged to ascertain that they are immune to poliomyelitis."

d) "One dose of tetanus-diphtheria toxoid (Td) is required within the last ten years."

e) "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."

f) "Students must show, prior to patient contact, acceptable evidence of vaccination of one dose of rubella vaccine."

g) "Students born on or after January 1, 1957, must show, prior to patient contact, acceptable evidence of vaccination of one dose of mumps vaccine."

h) "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."

i) "Students shall receive two doses of varicella vaccine unless the first dose was received prior to thirteen years of age."

Rule 97.65 lists the following exceptions to the immunization requirements:

a) "Serologic confirmations of immunity to measles, rubella, mumps, hepatitis A, hepatitis B, or varicella are acceptable. Evidence of measles, rubella, mumps, hepatitis A, hepatitis B, or varicella illness must consist of a laboratory report that indicates either confirmation of immunity or infection."

b) "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."

9. Complete a tuberculosis screening annually.

10. Hold a current American Heart Association CPR Type C certification.

The CONHS will provide students with information about procedures to meet these admission requirements. See the BON website www.bon.texas.gov/ for the statuses and rules regulating licensure.

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 agencies where you may choose to complete clinical experiences may have stricter requirements than the state minimum standards. Students will have to meet agency requirements to gain access for clinical.

Health insurance coverage is highly recommended as neither the university nor clinical agencies are held responsible for emergency/health care arising from a laboratory assignment. See University Student Handbook.

Progression, Retention, and Dismissal

All students must meet the standards for minimal performance and progression established by TAMU-CC Office of Graduate Studies. See catalog section on Graduate Academic and Degree Requirements.

1. When a grade lower than a C is earned the student:

a. Must repeat a course in which a grade of D, F, or W (Withdrawal) was earned.

b. May be placed on scholastic probation if the GPA falls below 3.0 because of the D, F, or W.

c. Will be removed from scholastic probation in accordance with university policy. See Scholastic Probation and Enforced Withdrawal in this catalog.

d. May not progress to courses for which that course is a prerequisite when a grade of D, F, W or I (Incomplete) was earned.

2. If the student earns a third C or below in the program, the student cannot progress further and is required to withdraw from the program even when the GPA does not fall below 3.0. (Grades earned in the RN-Bridge or RN-MSN program count in the total
number of grades earned in the program. Therefore all grades below a B will be considered in progressions decisions.)

3. The student cannot progress to next course after withdrawing from two courses in the program unless approved by the APG Committee. A plan to complete the program must be submitted to the Committee before a progression decision can be made. Admission to courses that need to be completed will depend on space availability.

4. The student may be dismissed from the program without previous warning for unsafe and/or unprofessional behavior identified by College administrators and faculty. The conduct of nursing students should meet ethical standards as defined by the American Nurses Association (ANA) in the Code of Ethics. Personal integrity is reflected in professional judgments. Consequently, the College reserves the right to dismiss students from the program for unprofessional or unsafe behavior. See College of Nursing and Health Sciences Student Handbook for examples.

5. Students admitted conditionally to the College must earn a B or better in each of the first four MSN courses to remain in the MSN program. If a grade of less than B is earned during the period the student is classified as a conditional student, the student will be prohibited from further enrollment in the MSN program. Students pursuing the RN-Bridge or RN-MSN options are not eligible for enrollment under the conditional admission status.

Students in the RN-Bridge and RN-MSN program must complete all of the undergraduate course work before beginning graduate classes. In order to progress in these entrance options, students must maintain a 3.00 grade point average. Students may earn credit for NURS 3435 and NURS 4324 through a challenge examination process when a score of 83% or better is earned on the examination. If the challenge examination results are not successful, the student may move to the RN-BSN track and take the course in question. The student may not reenter the RN-MSN track. The student may not progress through the RN-MSN track if the challenge exam score is less than 83% and the student does not want to enter the RN-BSN option.

Admission to the CONHS is highly competitive. Students who drop a course or do not enroll in a semester in which they are eligible to enroll will only have access to subsequent courses in their area of study when space is available. Therefore it is highly recommended that students consult the graduate nursing academic advisor or the graduate nursing department chair before withdrawing from any course.

**Advising**
Every effort has been made to assure the accuracy of the information in this catalog. Students are advised, however, that such information is subject to change without notice. Therefore, students should consult with their academic advisors each semester prior to registration. Students should be aware that courses are offered upon sufficient demand and faculty availability.

A student is assigned an academic advisor and a faculty advisor. The student and advisors work together to generate a program plan according to the student's academic, occupational and family needs. The advising team and student work together until the student graduates.

Curriculum

Core Graduate Nursing Courses (12 sem. hrs.)

The core nursing courses consist of graduate-level study of the scientific knowledge that comprises the discipline and profession of nursing, and prepares the student for advanced nursing practice.

- NURS 5310 - Science in Nursing 3 sem. hrs.
- NURS 5314 - Research Methods in Advanced Nursing Practice 3 sem. hrs.
- NURS 5315 - Health Policy and Cultural Diversity 3 sem. hrs.
- NURS 5316 - Introduction to Advanced Practice Role Development 3 sem. hrs.

Total: 12

Role Specialization

The student selects role specialization in advanced nursing practice, nursing leadership, or nursing education. A capstone course (identified below) is required for each specialization. The following courses constitute the respective specialty areas of study:

Nurse Educator

- NURS 5324 - Health Assessment for Advanced Practice 3 sem. hrs.
- NURS 5326 - Advanced Physiology with Pathophysiological Applications 3 sem. hrs.
- NURS 5351 - Advanced Pharmacological Concepts for Nursing Educators 3 sem. hrs.
• NURS 5352 - Nursing Curriculum Planning, Development, and Evaluation 3 sem. hrs.
• NURS 5353 - Theory and Concepts for the Nurse Educator 3 sem. hrs.
• NURS 5354 - Assessment, Measurement, and Evaluation in Nursing 3 sem. hrs.
• NURS 5355 - Instructional Teaching Strategies 3 sem. hrs.
• NURS 5459 - Education Practicum for the Nurse Educator 4 sem. hrs.

Total: 25

Leadership in Nursing Systems

• NURS 5331 - Nursing informatics 3 sem. hrs.
• NURS 5360 - Health Care Financial Management 3 sem. hrs. This course is cross-listed with HCAD 5325 - Health Care Financial Management
• NURS 5362 - Leadership Theories in Nursing Practice 3 sem. hrs.
• NURS 5364 - Organizational Design and Behavior in Nursing Practice Environments 3 sem. hrs.
• NURS 5365 - Quality and Outcomes Management 3 sem. hrs.
• NURS 5469 - Patterns of Care Delivery 4 sem. hrs. (Capstone Course)
• HCAD 5320 - Health Economics and Policy 3 sem. hrs.
• HCAD 5330 - Health Law and Ethics 3 sem. hrs.

Total: 25

Roles in advanced practice nursing include the family nurse practitioner.

Family Nurse Practitioner

• NURS 5322 - Advanced Pharmacological Concepts 3 sem. hrs.
• NURS 5323 - Finance for the Nurse Practitioner 3 sem. hrs.
• NURS 5341 - Wellness and Health Promotion 3 sem. hrs.
• NURS 5624 - Advanced Health Assessment and Differential Diagnosis 6 sem. hrs.
• NURS 5326 - Advanced Physiology with Pathophysiological Applications 3 sem. hrs.
• NURS 5644 - Management of Acute and Chronic illness I 6 sem. hrs.
• NURS 5645 - Management of Acute and Chronic illness II 6 sem. hrs.
• NURS 5746 - Integrated Clinical Practice: FNP 7 sem. hrs.

Total: 37

Post Masters Certificate Areas of Study
• Family Nurse Practitioner Post-Masters Certificate
• Leadership in Nursing Systems Post-Masters Certificate
• Nurse Educator Post Masters Certificate

Minor Area of Study

The College of Nursing and Health Sciences offers three minor areas of study that provide students with a secondary specialization focus. The courses that constitute the minors are taken in addition to the courses required for the role specialization.

• Nurse Educator Minor
• Leadership in Nursing Systems Minor

Thesis Option

The thesis option is available for those students interested in pursuing scholarly investigation of a research proposal topic.

• NURS 5399 - Thesis

For Additional Information

Website: http://conhs.tamucc.edu
Phone: (361) 825-5893 - CONHS Graduate Academic Advisor

Campus address: Island Hall 322
College of Nursing and Health Sciences
Texas A&M University-Corpus Christi

Mailing address: 6300 Ocean Drive
Corpus Christi, Texas 78412-5805

Post-Masters Certificate

Family Nurse Practitioner Post-Masters Certificate

Registered nurses who earn a Post-Master's certification as a Family Nurse Practitioner will be able to
1. Expand their practice as Advanced Practice Registered Nurses in the care of family and individuals across the lifespan.
2. Demonstrate competency in the planning, delivery, and evaluation of primary care in a variety of healthcare settings.

Students who complete post-master's certification course work should meet requirements for national certification in the associated specialty area of practice.

**Leadership in Nursing Systems Post-Masters Certificate**

Registered nurses who earn a Post-Master’s certification in the Leadership in Nursing Systems specialty area of study will be able to

1. Expand their knowledge of leadership and management principles to foster change that supports the development of efficient and effective healthcare organizations.
2. Demonstrate competency in the planning, implementation and evaluation of work processes that support consistent achievement of desirable organizational and patient outcomes.

Students who complete post-master’s certification course work should meet requirements for national certification in the associated specialty area of practice.

**Nurse Educator Post Masters Certificate**

Registered nurses who earn a Post-Master’s certification in the Nurse Educator specialty area of study will be able to

1. Expand their area of practice to include teaching positions in academic and clinical education.
2. Demonstrate competency in curriculum development, implementation, and evaluation through the application of relevant education principles.

Students who complete post-master’s certification course work should meet requirements for national certification in the associated specialty area of practice.

**Doctor of Nursing Practice**

**Nursing, DNP**

*Pending approval by the Southern Association of Colleges and Schools Commission on Colleges.*

**Program Description**
The Texas A&M University-Corpus Christi Doctor of Nursing Practice Program is an online part-time post-master's clinical doctorate for registered nurses interested in expanding their skills as nurse leaders or family nurse practitioners. This program prepares graduates to provide the most advanced level of nursing care for individuals, families, groups and communities. This includes direct care of individual patients, management of care for individuals and populations, administration of nursing systems, development and implementation of health policy and teaching nurses in both basic and specialty programs.

Because courses are delivered 100 percent online, students can remain in the communities where they live and work while completing program requirements. Travel may be required for students to interact with state or national experts in their areas of study. The curriculum is consistent with program standards set forth in the Essentials of Doctoral Education for Advanced Practice. Students enrolled in the program will complete a scholarly project designed to improve patient or system outcomes.

**Student Learning Outcomes**

Students will:

1. Integrate nursing science knowledge from the biophysical, psychosocial, analytical, and organizational sciences and ethics as the basis for practice.
2. Provide culturally relevant health promotion and disease prevention initiatives based on epidemiological, bio-statistical, environmental, and other scientific evidence for diverse populations.
3. Demonstrate visionary organizational leadership by designing and implementing efficient effective practice and policy models.
4. Apply advanced levels of clinical scholarship, systems thinking and analytical methods in evidence-based management and practice.
5. Translate and disseminate knowledge to transform management and practice.
6. Leverage information systems and patient care technology for the improvement and transformation of health care.
7. Analyze, develop, and advocate for health care policies to improve health care systems across diverse constituencies.
8. Collaborate inter-professionally to improve patient and population outcomes through practice, education, and leadership.

**Admission Requirements**
Students seeking admission to the Doctor of Nursing Practice program will need to:

1. Complete an application to the University for admission to graduate study and to the DNP Program.
2. Have earned a Master of Science in Nursing degree.
3. Provide evidence of current valid unencumbered licensure as a registered nurse with authority to practice in Texas.
4. Have earned a satisfactory grade point average of 3.0 on 4.0 scale in their graduate nursing program.
5. Write a 500 word essay explaining why they are enrolling in a Doctor of Nursing Practice program.
6. Submit three letters of recommendation from individuals knowledgeable about their potential to work effectively in advanced, professional, and scholarly roles.
7. Provide a current resume that delineates an applicant's professional contributions and work experiences and contains sufficient information to represent the applicant's accomplishments in nursing.
8. Hold national certification as a Family Nurse Practitioner.
9. Submit a copy of authorization to practice as an Advanced Practice Registered Nurse (APRN) in Texas.
10. Have completed within the past seven years, a graduate-level inferential statistics course with a grade of B or better. Provisional admission is possible for students who do not meet this requirement. Students admitted with provisional status must complete this requirement within the first academic year of the DNP program and before enrolling in any research course.
11. Have completed a graduate level research course.

As a condition of admission, applicants are required to:

1. Complete a background check
2. Submit the results of a ten panel non-chain of custody urine drug screen
3. 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)
4. Meet Texas Department of State Health Services immunization requirements for students in health professional education programs including Hepatitis A. These requirements are delineated in Texas Administrative Code, Title 25, Part 1, Chapter 97, Subchapter B, Rule 97.64.

5. Maintain American Heart Association CPR Type C certification

**Graduation Requirements**

**A. Course Work**

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Specialty</td>
<td>8</td>
</tr>
<tr>
<td>Courses</td>
<td></td>
</tr>
</tbody>
</table>

1000 hours of field experience

May be completed within the required courses.

**B. Scholarly/Capstone Project**

May be completed throughout the required courses. Project should be completed while enrolled in the capstone course.

Total Hours: 40

The TAMU-CC College of Graduate Studies Recency of Credit rule requires that all credit earned for a graduate degree must be completed within seven years of the first semester in which a student is enrolled in a graduate program. This requirement means that students are expected to complete their DNP program in seven years. In rare situations, an exception to this seven-year policy may be granted from the Dean for the College Graduate Studies when a student is unable to complete courses in this time period. The student must complete a request with an explanation as to why the exception should be made as soon as the student determines that courses will not be completed within this time frame. The request should be submitted to the Graduate Nursing Department Academic Advisor and the Associate Dean of Graduate Nursing Programs.
Program Requirements for all Nursing Graduate Students

The following program requirements apply to all nursing graduate students upon admission and throughout program of study. Students must:

1. Have completed a graduate nursing program from an NLNAC or CCNE accredited school of nursing.
2. Successfully complete (with a grade "B" or above) a graduate-level inferential statistics course.
3. Hold current unencumbered licensure as a registered nurse with authorization to practice in Texas.
4. Upon admission to the College, complete a criminal background check.
5. Complete a ten panel non-chain of custody urine drug screen.
6. 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.
7. Meet Texas Department of State Health Services immunization requirements for students in health professions programs. Students must complete and present evidence that immunizations are complete and current prior to starting classes. Immunizations must remain current throughout the program. Students will not be allowed into courses or clinical laboratory agencies if evidence of compliance is missing. These requirements, as stated in the Texas Administrative Code, Title 25, Part 1, Chapter 97, Subchapter B, Rule 97.64 include the following:
   a) "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."
   b) "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."
   c) "Polio vaccine is not required. Students enrolled in health-related courses are encouraged to ascertain that they are immune to poliomyelitis."
   d) "One dose of tetanus-diphtheria toxoid (Td) is required within the last ten years."
   e) "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."
f) "Students must show, prior to patient contact, acceptable evidence of vaccination of one dose of rubella vaccine."

g) "Students born on or after January 1, 1957, must show, prior to patient contact, acceptable evidence of vaccination of one dose of mumps vaccine."

h) "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."

i) "Students shall receive two doses of varicella vaccine unless the first dose was received prior to thirteen years of age."

Rule 97.65 lists the following exceptions to the immunization requirements:

a) "Serologic confirmations of immunity to measles, rubella, mumps, hepatitis A, hepatitis B, or varicella are acceptable. Evidence of measles, rubella, mumps, hepatitis A, hepatitis B, or varicella illness must consist of a laboratory report that indicates either confirmation of immunity or infection."

b) "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."


9. Complete a tuberculosis screening annually.

10. Hold a current American Heart Association CPR Type C certification.

The CONHS will provide students with information about procedures to meet these admission requirements. See the BON website, www.bon.texas.gov, for the statuses and rules regulating licensure.

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 agencies where you may choose to complete clinical experiences may have stricter requirements than the state minimum standards. Students will have to meet agency requirements to gain access for clinical.
Health insurance coverage is highly recommended as neither the university nor clinical agencies are held responsible for emergency/health care arising from a laboratory assignment. See University Student Handbook.

Progression, Retention, and Dismissal

All students must meet the standards for minimal performance and progression established by Texas A&M University-Corpus Christi Office of Graduate Studies. See catalog section on Graduate Academic and Degree Requirements.

1. When a grade lower than a C is earned the student:
   a. Must repeat a course in which a grade of D, F, or W (Withdrawal) was earned.
   b. May be placed on scholastic probation if the GPA falls below 3.0 because of the D, F, or W.
   c. Will be removed from scholastic probation in accordance with university policy. See Scholastic Probation and Enforced Withdrawal in this catalog.
   d. May not progress to courses for which that course is a prerequisite when a grade of D, F, W or I (Incomplete) was earned.

2. If the student earns a third C or below in the program, the student cannot progress further and is required to withdraw from the program even when the GPA does not fall below 3.0.

3. The student cannot progress to next course after withdrawing from two courses in the program unless approved by the APG Committee. A plan to complete the program must be submitted to the Committee before a progression decision can be made. Admission to courses that need to be completed will depend on space availability.

4. The student may be dismissed from the program without previous warning for unsafe and/or unprofessional behavior identified by College administrators and faculty. The conduct of nursing students should meet ethical standards as defined by the American Nurses Association (ANA) in the Code of Ethics. Personal integrity is reflected in professional judgments. Consequently, the College reserves the right to dismiss students from the program for unprofessional or unsafe behavior. See College of Nursing and Health Sciences Student Handbook for examples.

Advising

Every effort has been made to assure the accuracy of the information in this catalog. Students are advised, however, that such information is subject to change without notice. Therefore, students should consult with their academic advisors each semester prior to
registration. Students should be aware that courses are offered upon sufficient demand and faculty availability.

A student is assigned an academic advisor and a faculty advisor. The student and advisors work together to generate a program plan according to the student's academic, occupational and family needs. The advising team and student work together until the student graduates.

Curriculum

Core DNP Courses

The core nursing courses consist of graduate-level study of the scientific knowledge that comprises the discipline and profession of nursing, and prepares the student for advanced nursing practice.

- NURS 6200 - Informatics and Technology for Advanced Practice 2 sem. hrs.
- NURS 6201 - Application of Evidence in Practice II 2 sem. hrs.
- NURS 6210 - Practicum 2 sem. hrs.
- NURS 6211 - Introduction to Scholarly Project 2 sem. hrs.
- NURS 6300 - DNP Leadership in Health Policy 3 sem. hrs.
- NURS 6301 - Epidemiology and Statistics for Evidence-Based Practice 3 sem. hrs.
- NURS 6302 - Genomics in Health Care 3 sem. hrs.
- NURS 6303 - System Behavior and Impact on Health Care 3 sem. hrs.
- NURS 6304 - Application of Evidence in Practice I 3 sem. hrs.
- NURS 6305 - Principles of Nursing Education for Teaching and Patient Care 3 sem. hrs.
- NURS 6310 - Practicum II 3 sem. hrs.
- NURS 6311 - Capstone Project and Seminar 3 sem. hrs.

Total: 32

Family Nurse Practitioner Specialty Courses

- NURS 6221 - Economics of Advanced Practice 2 sem. hrs.
- NURS 6320 - Advanced Principles for Clinical Practice I 3 sem. hrs.
- NURS 6321 - Advanced Principles for Clinical Practice II 3 sem. hrs.

Total: 8

Field Experiences
Students are expected to complete a minimum of 1000 hours of field experience related to their courses and focus of study. Appropriate field or clinical hours completed in an MSN program will be counted as part of the 1000 hours. Applicants will be required to demonstrate these hours were completed in relevant settings. The Graduate Nursing Department has final authority in approving the total number of hours completed outside the DNP program, that can be included in the 1000 hour field experience requirement. Students will be responsible for identifying and selecting agencies or preceptors for their field experiences. *For more information please see the CONHS Doctoral Student Handbook under Current Students.*

**Capstone/Scholarly Project**

All students must complete a scholarly project as a requirement for the DNP degree. The project provides an opportunity for students to demonstrate their ability to develop effective interventions for patients and patient populations with complex health problems. The projects will be completed through multi-disciplinary collaborative partnerships and under faculty guidance.

**For Additional Information**

**Website:**  
http://conhs.tamucc.edu

**Contact:**  
Dr. Eve Layman | Associate Dean for Graduate Nursing Programs & DNP Program Coordinator  
Phone: (361) 825-3781 | Email: eve.layman@tamucc.edu

**Campus address:**  
Island Hall 326  
College of Nursing and Health Sciences

**Mailing address:**  
Texas A&M University-Corpus Christi  
6300 Ocean Drive, Unit 5805  
Corpus Christi, Texas 78412-5805

**Non-degree**

**Leadership in Nursing Systems Minor**
Required Courses

- NURS 5360 - Health Care Financial Management 3 sem. hrs.
- NURS 5362 - Leadership Theories in Nursing Practice 3 sem. hrs.
- NURS 5364 - Organizational Design and Behavior in Nursing Practice Environments 3 sem. hrs.
- NURS 5365 - Quality and Outcomes Management 3 sem. hrs.

Total: 12

Nurse Educator Minor

Required Courses

- NURS 5354 - Assessment, Measurement, and Evaluation in Nursing 3 sem. hrs.
- NURS 5459 - Education Practicum for the Nurse Educator 4 sem. hrs.

Total: 13

Emphasis is on instruction in curriculum, program and course design, development, and evaluation. Focus is also placed on theory and concepts for the development of the nurse educator role. A laboratory experience consisting of teaching instruction in the academic or clinical area provides students with the opportunity to apply theory to classroom or clinical environments.

College of Science and Engineering

College of Science and Engineering

Master's Programs

- Biology, MS
- Coastal and Marine System Science, MS
- Computer Science, MS
- Environmental Science, MS

Doctoral Programs

- Coastal and Marine System Science, PhD
- Geospatial Computing Sciences, PhD
- Marine Biology, PhD
Graduate Programs

The objectives of graduate study are to develop a student's capacity to solve problems and learn independently, to familiarize the student with past and current research in a particular field, and to enable the student to conduct research and relate it to published research, other scholarly investigations, and disciplinary principles and theories.

Graduate studies differ from undergraduate studies in that graduate students must demonstrate even more responsibility and initiative in acquiring the knowledge, methods, and skills needed to achieve success in their chosen disciplines. Graduate students must read both extensively and intensively. They must conduct original scholarly work, think creatively and productively, and participate in activities which help develop scholarly commitment and stimulate continued intellectual growth.

The College of Science and Engineering offers the graduate degrees listed above. In addition, the College offers graduate coursework in the following disciplines:

- Biomedical Sciences
- Engineering Technology
- Geographic Information Science
- Geology
- Physical Science
- Physics
- Science, Mathematics and Technology Education

Centers for Research and Continuing Education

Research units within or related to the College of Science and Engineering provide further opportunities for graduate student research. These units include the Harte Research Institute for Gulf of Mexico Studies, the Center for Coastal Studies, the Conrad Blucher Institute for Surveying and Science, the Center for Water Supply Studies, the National Spill Control School, and the Center for Information Assurance, Statistics, and Quality Control. See the Research Resources section of this catalog for further information.
Admission to Graduate Programs

Consult the graduate and academic degree requirements section of this catalog for university requirements for admission and graduate degrees. Students seeking admission to the Doctor of Philosophy program with a major in Coastal and Marine System Science, Geospatial Computing Science or Marine Biology or the Master of Science program with a major in Biology, Chemistry, Coastal and Marine System Science, Computer Science, Environmental Science, Geospatial Surveying Engineering, Fisheries and Mariculture (including the Master's International Program), Marine Biology, or Mathematics must submit completed applications through the College of Graduate Studies. The College of Graduate Studies indicates the specific dates that applications should be complete for acceptance to the summer, fall, or spring semester, respectively. A complete application to a graduate degree program within the College of Science and Engineering consists of the completed application form, GRE scores if required by the program, complete transcripts, and other information or documentation as required by the specific degree program. Additional requirements exist for international students. Consult the section of the graduate catalog pertaining to the degree program of interest for specific admission requirements.

Degree Program Admission Procedure

The College of Graduate Studies compiles all applications for graduate degree programs, and then forwards the application materials of eligible students to the College of Science and Engineering for further forwarding to the Graduate Selection Committee of the specific degree program. The committee, usually composed of faculty from the discipline, will review the applications, make judgments concerning the acceptance or rejection of applicants, and assign graduate advisers.

An application procedure is necessary because only a limited number of students can be accepted to graduate study in any semester based upon limitations in both faculty and facility resources. When there are more qualified applicants than can be instructed adequately, students may be delayed in their acceptance to the degree program even though they have met all requirements.

An incoming student is expected to know fundamental concepts in the relevant discipline. The student, therefore, may be required to make up deficiencies in fundamentals by enrolling in appropriate foundation courses. In some cases admission may be delayed until an applicant has completed each foundation course with a "B" or better grade. In no case will a foundation course count towards the total number of hours required for the Doctor of Philosophy or Master of Science degree.
Graduate Orientation

All students seeking graduate degrees in the College of Science and Engineering must attend the graduate student orientation to be held by the University in conjunction with the College of Graduate Studies, the College of Science and Engineering and the program of their major near the beginning of their first semester of coursework at Texas A&M University–Corpus Christi.

Residency Requirement

Each degree program within the College of Science and Engineering has a minimum enrollment requirement for degree candidates. Refer to the description of the specific degree program for details.

Reinstatement After Enforced Withdrawal

Students on enforced withdrawal may not re-enroll in graduate studies in the College of Science and Engineering until after a period of 12 consecutive months. Refer to university section of catalog on "Scholastic Probation and Enforced Withdrawal" for additional details.

Graduate Courses

General prerequisite for 5000-level and 6000-level courses: Graduate standing. Senior undergraduates in their last semester or summer session of undergraduate work may take 5000-level courses provided that they have a cumulative grade point average of 3.0 or better, and that written approval is obtained from the Dean of the college in which the work is offered. For other conditions that may apply, see "Graduate Study by Undergraduates" in the section of the catalog entitled "Graduate Academic and Degree Requirements."

With the exception of courses offered by those masters degree programs that require graduate leveling, students may take no more than nine graduate hours in the College of Science and Engineering unless they are accepted into a graduate degree program within the College of Science and Engineering. Students accepted into graduate programs in other colleges of the University may not take courses in the College of Science and Engineering unless those courses are specified in the degree plan. Non-degree seeking students may take no more than one semester of courses in the College of Science and Engineering. In any case, the total number of courses taken within the College of Science
and Engineering by students who are not yet accepted into a degree program in the College of Science and Engineering may not exceed nine hours.

Weekly lecture and laboratory hours associated with each course are designated by (lecture: lab) following the semester hours in the catalog course listing.

**Directed Independent Study (DIS)**

Each area of the College offers courses in directed independent study. These courses appear with a 5X96 number ("X" ranges from 1-6 semester hours) in the course offerings of each discipline and may carry variable credit depending upon the course design. The number of credit hours must be approved by the instructor, the Department Chairperson/Director, and the Dean in advance of registration. These courses may be repeated to total no more than six semester credit hours.

**Final Oral Examination**

Requirements for a final oral examination may be found in the catalog section on the specific degree specialty. See the degree requirements for the particular program.

**Approval of Thesis, Project Report or Professional Paper**

The graduate thesis, project report, or professional paper must be prepared in a style and format that is prescribed by the specific degree program. Copies of the signed thesis, project report, or professional paper must be submitted to the Office of the Dean of the College of Science and Engineering on or before the last day of classes for the Dean's approval and signature (the specific number of copies will be designated by the College). The Dean's Office will be responsible for distributing the copies to the appropriate offices. The student must pay for binding of the dissertation or thesis, if required.

**Approval of Dissertation**

The process required for approval of the dissertation is described in the Coastal and Marine System Science Doctor of Philosophy, Geospatial Computing Sciences Doctor of Philosophy, and Marine Biology Doctor of Philosophy sections.

**School of Engineering and Computing Sciences**
Master of Science

Computer Science, MS

Program Description

The Master of Science with a major in Computer Science is designed to prepare graduate professionals who can apply the necessary knowledge of computing to information requirements of organizations in business, government, industry and education. The program provides for the education of individuals who will develop, maintain, or manage complex computer-based information systems.

The program provides the experienced professional with up-to-date specialized knowledge while developing those analytical skills necessary to stay abreast of the changing field of computing. The program also provides the recent baccalaureate graduate with additional applied and advanced knowledge, thus facilitating a more useful contribution to his/her career path.

Student Learning Outcomes

Students will:

- apply the knowledge of computing to organizational information requirements in business, government, industry and education, and
- develop, maintain or manage complex computer-based information systems, and
- utilize their acquired analytical skills for life-long learning and advanced studies in computing

Admission Requirements

1. In addition to meeting all University requirements, students seeking admission to the graduate degree program in computer science must submit the following to the Office of Research and Graduate Studies:
   - An application and application fee
   - Transcripts from regionally accredited institutions (international students will be required to submit relevant international transcripts)
   - An essay (500-1000 words) discussing why you wish to get a Master's degree and your areas of interest
   - GRE scores (within five years of the date of application)
International students must submit TOEFL scores and additional documents to the Office of Research and Graduate Studies. http://gradschool.tamucc.edu/international.htm

2. A student entering the program is expected to have adequate preparation in computer science and mathematics from their undergraduate degree. For computer science, this preparation must include successful completion of coursework in data structures, a high level programming language, computer architecture, operating systems, and software engineering. In mathematics, students must have successfully completed course work in discrete mathematics, calculus, plus one additional junior level or higher mathematics course such as linear algebra, numerical analysis, or applied probability and statistics.

Students who have not successfully completed the above courses may be required to take leveling courses in any missing subjects before being formally admitted into the MS degree program. All leveling courses must be completed with a grade of "B" or better. In addition, students can take no more than 9 credits towards their degree prior to completing all leveling courses.

3. Persons seeking admission to the Computer Science MS program should first contact the program to identify a faculty member willing to serve as their graduate advisor. Applicants will not be admitted to the program without a graduate advisor.

Degree Requirements

Requirements for the Master of Science in Computer Science degree may be met through one of two options: Thesis Option (Option I) or Project Only Option (Option II). The Thesis Option requires a minimum of 30 credit hours and the Project Only Option requires a minimum of 36 credit hours. Both options share the same 9 credit hour core. The Thesis Option allows for maximum flexibility in choosing elective courses. This option allows the student to concentrate on a particular field or area of computer science. The Project Only Option also allows for flexibility in choosing elective courses but requires the student to take at least one elective from each of the three elective concentration tracks. The concentration tracks are Software and Programming, Scientific Computing and Visualization, and Networking and Security.

Requirements for Option I – Thesis Option:

Minimum number of credit hours: 30
• Core: 9 sem. hrs.
• Electives: Minimum of 12 sem. hrs.
• COSC 5393 - Research Methods in Computer Science 3 sem. hrs.

Thesis:

• COSC 5398 - Thesis I 3 sem. hrs.
• COSC 5399 - Thesis II 3 sem. hrs.

Requirements for Option II – Project Option:

Minimum number of credit hours: 36

• Core: 9 sem. hrs.
• Electives: Minimum of 21 sem. hrs., with at least 3 credit hours from each concentration track

Additional Required Course:

• COSC 5370 - Advanced Software Engineering 3 sem. hrs.

Project:

• COSC 5395 - Graduate Project and Technical Report 3 sem. hrs.

Core Courses (9 credit hours)

• COSC 5334 - Design and Analysis of Algorithms 3 sem. hrs.
• COSC 5351 - Advanced Computer Architecture 3 sem. hrs.
• COSC 5352 - Advanced Operating Systems 3 sem. hrs.

Electives

Electives are chosen by the student but are subject to approval by the student’s graduate faculty mentor. For the Thesis Option, electives should be taken that will support the student’s thesis. For the Project Only Option, students must obtain breadth by taking electives across different areas of computer science, and must take at least one course from each of the concentration tracks. Electives not listed in the concentration tracks may be taken to fulfill remaining credit hours.

No more than six hours of approved electives may come from courses taken at another university or from outside of computer science. Credit from a master’s degree earned at
another institution will not be applied to a second master’s degree at Texas A&M University-Corpus Christi. A maximum of six hours of approved Directed Independent Study may count toward the MS degree.

Concentration Tracks

A. Software and Programming

- COSC 5330 - Programming Languages 3 sem. hrs.
- COSC 5336 - Database Management Systems 3 sem. hrs.
- COSC 5348 - Expert Systems 3 sem. hrs.
- COSC 5350 - Advanced Topics in DBMS 3 sem. hrs.
- COSC 5353 - Compiler Design and Construction 3 sem. hrs.
- COSC 5356 - Theory of Computation 3 sem. hrs.
- COSC 5362 - Mobile Software Development 3 sem. hrs.
- COSC 5365 - Current Trends in Programming 3 sem. hrs.

B. Scientific Computing and Visualization

- COSC 5340 - Human-Computer Interaction 3 sem. hrs.
- COSC 5345 - System Simulation and Modeling 3 sem. hrs.
- COSC 5354 - Artificial Intelligence 3 sem. hrs.
- COSC 5360 - Parallel Computing 3 sem. hrs.
- COSC 5361 - Parallel Algorithms 3 sem. hrs.

C. Networking and Security

- COSC 5355 - Data Communications and Networking 3 sem. hrs.
- COSC 5357 - Wireless Sensor Networks 3 sem. hrs.
- COSC 5374 - Computer Forensics 3 sem. hrs.
- COSC 5375 - Information Assurance 3 sem. hrs.
- COSC 5376 - Network Security 3 sem. hrs.
- COSC 5377 - Applied Cryptography 3 sem. hrs.
- COSC 5379 - Advanced Information Assurance 3 sem. hrs.

Chronological Procedure Leading to the MS Degree

1. Completion of a degree plan
   Upon admission to the MS degree program in computer science, and prior to
enrollment in any course, the student must contact the Graduate Academic Advisor in the College of Science & Engineering to have a degree plan completed. The student will then be assigned a faculty advisor from the computer science faculty. Students should seek the advice of their faculty advisor on a regular basis about their progress toward their degree.

2. Progress toward the degree
Once admitted to the graduate degree program in computer science, a student must complete at least six semester hours of credit per year toward the degree until the degree is completed. Failure to make this minimum progress will result in dismissal from the degree program with possible readmission based on the catalog in effect at the time of readmission. A student who is actively pursuing a graduate project or thesis and has completed all other course work for the degree will be given relief from this requirement, but must register continuously for the project or thesis until it is completed.

3. Thesis or Courses Only

Thesis Option
Students choosing the thesis option must first find a computer science graduate faculty member to agree to serve as their thesis advisor. Generally this is a faculty member working in the area of the thesis. With permission from the thesis advisor, the student may register for COSC 5398 - Thesis I. During the first month of Thesis I, the student and their advisor should determine the thesis committee. This committee consists of three full-time Texas A&M University-Corpus Christi computer science PhD-degree faculty members. An additional member from outside Computer Science may be added subject to approval by the committee chair.

While taking Thesis I, the student will develop a written proposal of the thesis work and present the proposal for approval. Upon approval, the student may then register for COSC 5399 - Thesis II. The student must then continually register for COSC 5399 until completion of their thesis. A grade of In Progress will be assigned for COSC 5398 and all COSC 5399 courses until the student completes their thesis and passes their final exam. If the student fails to register for COSC 5399 or fails their final examination, a grade of No Credit will be assigned to COSC 5398 and all COSC 5399 courses and the student must begin the process again.

While taking COSC 5399 - Thesis II, the student will produce a written thesis that
discusses their work. A draft copy of the thesis will be given to all committee members and the student will make any changes required by the committee. Upon approval of the thesis committee chair, the student may schedule their final oral examination. The thesis will be published and archived in the Mary & Jeff Bell library. Guidelines for writing the thesis are available in the Computer Science office.

**Project Only Option**
Students must take all required courses along with their chosen electives with at least one course from each elective group. In the student's final semester, they need to register for and complete COSC 5395 - Graduate Project and Technical Report.

4. **Final examination (Thesis Option)**
After the student has completed all other requirements for the MS degree in computer science, he or she must schedule an oral exam over his/her graduate program of study. The oral exam will be administered by the graduate thesis committee and will focus heavily on the thesis itself.

For Additional Information

**Website:** http://cs.tamucc.edu/

**Campus address:** Center for Instruction, Room 301; Phone: (361) 825-2474

**Mailing address:** Computer Science Program, Unit 5825
College of Science and Engineering
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5825

**Geospatial Surveying Engineering, MS**

**Program Description**

The Geospatial Surveying Engineering Program will prepare graduates with advanced knowledge and skills focusing on research, design, development, and use of technologies in the field of geospatial surveying engineering. This program satisfies regional, state, and national need for master's-level graduates in geospatial surveying engineering.
The degree requires a minimum of 36 semester-credit hours. This must include 12 semester credit hours in the geospatial surveying engineering core and 24 semester hours in the Graduate Thesis option or the Graduate Creative Project option as described in Section II.

Objectives of the Program

Student Learning Outcomes

Graduates of the GSEN Program will:

- Develop, manage, and analyze geospatial data using spatial analysis, computational, and geomatics engineering techniques.
- Develop the capacity for continued learning, research, and professional application.
- Creatively apply geomatics engineering technologies to solve real-world problems.

Program Outcomes

Graduates of the Master of Science in Geospatial Surveying Engineering will have:

1. The ability to lead teams and apply problem-solving skills that include oral and written communication skills to effectively manage geospatial information.
2. An awareness and utilization of external organizations and institutions that provide useful geospatial data sets and their relationships to traditional and contemporary societal issues.
3. A recognition of the need for continued learning and development of leadership skills through involvement in volunteer professional organizations and societies.

Admission Requirements

Students seeking admission to the graduate degree program in Geospatial Surveying Engineering must hold a bachelor’s degree from a regionally accredited institution of higher education in the United States (or an equivalent foreign institution). Each applicant must also submit the following to the Office of Research and Graduate Studies:

1. An application and application fee.
2. Transcripts from regionally accredited institutions (international students will be required to submit relevant international transcripts).
3. At least two reference letters, one each from industry and academic institutions.
4. Official GRE scores.
5. GPA of 3.0 or greater
6. Admission Essay

Students who have not completed all general prerequisites listed below may be required to complete leveling courses with grades of "B" or better.

Persons seeking admission to the MS Program in Geospatial Surveying Engineering should first contact the program and identify a faculty member willing to serve as the graduate advisor. Applicants will not be admitted to the program without a graduate advisor.

Degree Requirements

The course of study leading to a MS degree in Geospatial Surveying Engineering is composed of four components:

I. General prerequisites (must be satisfied before the student can be formally and unconditionally accepted to the MS program).
II. Options
III. Required Courses.
IV. Elective Courses.
V. Additional Courses.

I. General Prerequisites

1. Geospatial Surveying Engineering
   Every student is expected to have achieved certain minimum competencies in geospatial science before being formally admitted to the MS degree program. Students who have not earned a baccalaureate degree in Geographic Information Science, Surveying, or a similar field must consult with the coordinator of the Geospatial Surveying Engineering Program to design a plan of appropriate leveling courses. If leveling is required, students must complete the course(s) designated with a grade of "B" or better. Such courses (GSEN 5300 and 4000-sequence or lower) are regarded as foundation or leveling work and do not count as credit towards the total required for completion of the graduate degree.

2. Mathematics
   Every student must have minimum level of knowledge in mathematics equivalent to the mathematics courses in the BS in GISC and will be evaluated on an individual basis by Geospatial Surveying Engineering faculty.

3. English
   Every student is expected to have minimum competencies in English
composition, especially in technical writing. In preparation for reports that are
required in the workplace, numerous reports are required during the course of
study for the degree. The proposal, the creative project and the thesis require
technical writing. Students may satisfy the writing requirement by completing one
of the following courses:

ENGL 3301 Principles of Professional & Report Writing
ENGL 3379 Writing in Computer-Network Environment
ENGL 3380 Advanced Writing in Computer-Network Environment

1. Such courses (GISC 5300 and 4000-sequence or lower) are regarded as
   foundation or leveling work and do not count as credit towards the total required
   for completion of the graduate degree.
4. Students may be required to take an entrance exam before being allowed to
   register for classes.

II. Options

Students will choose between thesis (9 credit hours) and project (3 credit hours) options. Either option allows students to work in teams. Projects requiring student teams should be well designed to demonstrate equal participation of team members and closely overseen by the members of the advisory committee. The thesis option allows students to undertake detailed research, experimentation design, implementation, testing, and scientific reporting of a new idea or application of geospatial technology. Students undertaking the thesis are encouraged to pursue projects that are associated with their employment. The project option allows students to pursue study of a smaller specific topic, which should be researched in detail. Students following either option will be required to take a core of interdisciplinary courses to provide a broad background, and to select elective courses in consultation with their advisory committee to provide in depth
education in a particular area of emphasis related to geospatial surveying engineering. Elective courses may be taken from other science disciplines, such as Computer Science, with permission from the advisory committee chair or the program coordinator. Elective courses in other science disciplines are encouraged as these courses expose students to interdisciplinary approaches to research and problem solving.

1. Thesis Option

The thesis option requires a Graduate Thesis based upon original research, supported by
the scientific literature, and proved statistically, when appropriate. The thesis option
master's degree will allow a person to pursue advanced graduate study, or to obtain
employment in most areas requiring a detailed knowledge of a specific aspect of
geospatial surveying engineering. The Geospatial Surveying Engineering Graduate
Thesis requires 9 hours of research and a formal publishable thesis. Students are required to register for GSEN 5395 Graduate Project Research and Proposal to develop a proposal for Graduate Thesis. After the proposal is accepted by the committee, students must enroll in a minimum of 6 hours of GSEN 5998 Graduate Thesis. Additionally, in the semester of intended graduation, students must enroll in an additional 3 hours of GSEN 5998 Graduate Thesis and must schedule a presentation of their thesis project to the advisory committee, which may include an oral examination of the graduate research and thesis.

Graduate Project Research and Proposal (GSEN 5395) and Graduate Thesis (GSEN 5998) (Total 12 hours)

- Required Core Courses 6 sem. hrs.
- Elective Courses 18 sem. hrs.
- Graduate Project Research and Proposal 3 sem. hrs.
- Graduate Thesis 9 sem. hrs.

Total hours (Thesis option): 36

2. Project Option:

The project option is a Graduate Creative Project designed for students who desire a more detailed study into a specific geospatial surveying engineering project. The curriculum will especially benefit individuals employed in scientific or technical fields who seek advancement or additional training to enhance their knowledge and skills. Graduate Creative Project students must complete a professional research project with a written final report and seminar. The Graduate Creative Project requires 3 hours of research and a formal publishable project report. Students are required to register for Graduate Project Research and Proposal (GSEN 5395) to develop a proposal for Graduate Creative Project. After completion of all other requirements for the MS degree in GSEN, students must schedule a presentation of their project to the advisory committee, which may include an oral examination of the graduate research and Graduate Creative Project.

Graduate Project Research and Proposal (GSEN 5395) and Graduate Creative Project (GSEN 5993) (Total 6 hours)

- Required Core Courses 6 sem. hrs.
- Elective Courses 24 sem. hrs.
- Graduate Project Research and Proposal 3 sem. hrs.
- Graduate Creative Project 3 sem. hrs.

Total hours (Project option): 36
III. Required Core Courses

All Geospatial Surveying Engineering students must complete 6 semester hours from the following courses:

Geospatial Surveying Engineering Core

- GSEN 5383 - Advanced Geospatial Analysis and Design 3 sem. hrs.
- GSEN 5384 - Geospatial Visualization Design 3 sem. hrs.

IV. Elective Courses

Thesis option students must complete 18 semester hours and project option students must complete 24 semester hours from the courses listed below or from other interdisciplinary courses, as selected in consultation with their advisory committee, to provide a broad background in geospatial surveying engineering or related fields:

Geospatial Surveying Engineering Electives

- GSEN 5382 - Policy and Legal Aspects of Spatial information Systems 3 sem. hrs.
- GSEN 5385 - Analytical and Digital Photogrammetric Engineering 3 sem. hrs.
- GSEN 5387 - Geospatial intelligence Techniques 3 sem. hrs.
- GSEN 5388 - Geospatial Internet Engineering 3 sem. hrs.
- GSEN 5390 - Advanced Topics 3 sem. hrs.
- GSEN 5396 - Directed Independent Study 3 sem. hrs.
- GSEN 5381 - Cadastral information Systems 3 sem. hrs.
- GSEN 5355 - Design and Analysis of GIS Applications 3 sem. hrs.
- GSEN 5365 - Spatial Database Design 3 sem. hrs.

V. Additional Courses

The following additional courses may be offered and substituted for any of the courses mentioned in II subject to approval by the student graduate mentor or committee chair.

- GSEN 5390 - Advanced Topics 3 sem. hrs.
- GSEN 5396 - Directed Independent Study 3 sem. hrs.

Chronological Procedure Leading to the MS Degree
1. Completion of a degree plan
   Upon admission to the MS degree program in Geospatial Surveying Engineering, and prior to enrollment in any course, **the student must contact the Graduate Academic Advisor in the College of Science and Technology to have a degree plan completed.** The student will then be assigned an academic advisor/mentor who is a graduate faculty member of the Geospatial Surveying Engineering program. Students must arrange to see this advisor/mentor each semester until graduation to have their semester course schedules approved.

2. Progress toward the degree
   Once admitted to the graduate degree program in Geospatial Surveying Engineering, a student must complete at least six semester credit hours per year toward the degree until the degree is completed. Failure to make this minimum progress will result in dismissal from the degree program with possible readmission based on the catalog in effect at the time of re-admission. A student who is actively pursuing a Graduate Creative Project or Graduate Thesis and has completed all other course work for the degree will be required to register for a minimum of 3 credit hours continuously until the project is completed.

3. Graduate Thesis and Graduate Creative Project procedure
   Following a consultation with and permission of the advisor/mentor, the student may register for GSEN 5395 to develop a proposal for the Graduate Thesis or Graduate Creative Project. After the proposal is approved by the thesis or creative project chairperson, the proposal must be submitted to the full thesis or creative project committee. This three-member committee shall consist of at least two full-time Texas A&M University-Corpus Christi graduate faculty members. The committee chairperson must be a graduate faculty member in the geospatial surveying engineering program. The second committee member may be a graduate faculty member in geospatial surveying engineering, geographic information science, or computer science. The third member may be a graduate faculty member having distinguished professional status and expertise in the discipline of the proposed Graduate Thesis or Graduate Creative Project.

   After the approved Graduate Thesis proposal is placed in the student's file, the student may register for GSEN 5998. After approval of Graduate Creative Project proposal, a student may register for GSEN 5993. Once a student has registered for Graduate Thesis or Graduate Creative Project, he or she must continue to register in each consecutive semester until the thesis or creative project is completed. A student who does not complete a thesis or creative project in the semester for which he or she has registered will receive a grade of IP (In Progress). Failure to
register for an incomplete thesis or creative project in the next semester will terminate the thesis or creative project and will require that the entire thesis or creative project process be repeated starting with the submission of a new thesis or creative project proposal.

4. Final examination and thesis or project report
After completion of all other requirements for the MS degree in Geospatial Surveying Engineering, the student must schedule an oral exam over his/her graduate program of study. The oral exam may include any material from the program of study and will be administered by the graduate committee. It will focus heavily on the thesis or creative project.

The Graduate Thesis or Graduate Creative Project (see GSEN 5998 or GSEN 5993) may be completed in one semester; however, with continuous registration, a student will be allowed up to one calendar year to complete the thesis or creative project. Any extension beyond one year will require written justification on a semester-to-semester basis, to be approved by each member of the committee and the coordinator of the Geospatial Surveying Engineering program.

For Additional Information

**Website:** http://gisc.tamucc.edu

**Campus Address:** Conrad Blucher Institute; Phone: 361-825-5850

**Mailing Address:** Geospatial Surveying Engineering Program, Unit 5868
Texas A&M University-Corpus Christi
6300 Ocean Drive
Corpus Christi, TX 78412-5868

**Doctor of Philosophy**

**Geospatial Computing Sciences, PhD**

**Program Description**

The Geospatial Computing Sciences (GSCS) doctoral program is an interdisciplinary program with a strong emphasis on developing the theory of computer science for handling geospatial data and exploring emerging technologies enabled by geographic information science. The GSCS program is a unique combination of the fields of
computer science and geographic information science, with a technical and theoretical foundation of computer science.

The Geospatial Computing Sciences Ph.D. Program will:

- Educate well-prepared students who will become experts in computer science, especially in geospatial computing,
- Produce graduate researchers/faculty who will be able to pursue careers in higher education, government, and industries related to or affected by geographic information science,
- Prepare graduates to teach and conduct independent research or oversee such research related to the collecting, processing, analyzing, and visualizing of geospatial data, as well as to the utilization of geospatial methods and data for developing new technologies, and
- Provide students with a rigorous preparation to use computer science theoretical and applied techniques to pursue research and scholarship that will advance the state of knowledge in geospatial computing.

Student Learning Outcomes

The program's student learning outcomes are for students to:

- Produce innovative research that advances theory or methodology in geospatial computing science.
- Participate at academic conferences and publish in peer-reviewed journals.
- Find employment in research departments of public and private organizations, in major academic institutions, and in industry.
- Advance the science of computing to create new algorithms and applications for geospatial challenges.
- Acquire the computer science and geospatial analysis skills necessary to advance the theory and methodology of geospatial computing science.
- Develop the professional skills necessary to present research outcomes orally to a professional or general audience as well as in writing for peer reviewed journals and conference proceedings.

Admission Requirements

1. Persons seeking admission to the GSCS program should first contact the program to identify a faculty member willing to serve as their graduate advisor. Applicants will not be admitted to the program without a graduate advisor.
2. In addition to meeting all University requirements, students seeking admission to the graduate degree program in computer science must submit the following to the College of Graduate Studies:
   - An application and application fee,
   - Transcripts from regionally accredited institutions (international students will be required to submit relevant international transcripts),
   - An essay (500-1000 words) discussing why you are seeking admission to the program and what your research plans are,
   - A curriculum vitae,
   - GRE scores (within five years of the date of application), and
   - International students must submit TOEFL scores and additional documents to the College of Graduate Studies.

http://gradschool.tamucc.edu/international.htm

3. A student entering the program is expected to have adequate preparation in computer science, geographic information science, and mathematics. For computer science, this preparation must include successful completion of coursework in data structures, a high level programming language, computer architecture, and operating systems. For geospatial science, students must have successfully completed course work in geospatial data analysis and visualization. In mathematics, students must have successfully completed course work in discrete mathematics, calculus, plus one additional junior level or higher mathematics course such as linear algebra, numerical analysis, or applied probability and statistics.

Students who have not successfully completed the above courses may be required to take leveling courses in any missing subjects before being formally admitted into the program. Leveling coursework does not count towards the total credit hours required for the degree. All leveling courses must be completed with a grade of "B" or better. While taking leveling courses, a student can take regular courses that can be counted towards the degree once admitted into the program formally. However, the total credit hours of such courses must not exceed nine hours.

Degree Requirements

There are two paths for students in the PhD in Geospatial Computing Sciences degree program, those coming in with 1) a bachelor's degree in a related field, and 2) a master's degree in a related field. Students entering the program with a bachelor's degree are required to take a minimum of 75 semester credit hours (SCH). Of these 75 SCH, students must take the GSCS core courses (21 SCH), 3 SCH of Graduate Seminar, at least 15 hours of Electives, and at least 30 hours of research and dissertation credits.
Students entering the program with a master's degree are required to take a minimum of 57 credit hours beyond the master's degree. Students are required to have coursework that covers the GSCS core courses. A minimum of 9 SCH of the core courses, must be taken at TAMUCC. Additional core courses are likely to be assigned depending on the student's background. At least 15 hours of elective courses must also be taken at TAMUCC. Three credit hours of Graduate Seminar and at least 30 hours of dissertation and research must also be part of the required 57 hours.

Students must file an approved degree plan by the end of their second semester in the program.

GSCS Core Courses

All students must master the same core knowledge, and this content must be mastered prior to their candidacy exam. The core knowledge can be mastered with the following courses. Students entering with a master's degree must take at least three (9SCH) of the following courses at Texas A&M University-Corpus Christi, and may be required to take more to fill any deficiencies.

- COSC 5334 - Design and Analysis of Algorithms 3 sem. hrs.
- COSC 5351 - Advanced Computer Architecture 3 sem. hrs.
- COSC 5352 - Advanced Operating Systems 3 sem. hrs.
- GSCS 6321 - Geospatial Data Structures 3 sem. hrs.
- GSCS 6331 - Advanced Geospatial Computing 3 sem. hrs.
- MATH 5344 - Spatial Statistics 3 sem. hrs.
- GSEN 5365 - Spatial Database Design 3 sem. hrs.

Required courses

Students must take 3 hours of graduate seminar and at least 30 hours of research and dissertation credits.

- GSCS 6102 - Graduate Seminar 1 sem. hrs.
  (3 sem. hours total)
  30 hours of research and defense from the following:
- GSCS 6996 - Research 3 sem. hrs.
- GSCS 6998 - Dissertation Research 1-9 sem. hrs.

Elective Courses
At least 15 hours of electives must be taken. Electives will predominately come from COSC, GSCS, and GSEN graduate courses. Up to 6 hours can be from another graduate program with approval. The following courses are standard electives:

- COSC 5330 - Programming Languages 3 sem. hrs.
- COSC 5340 - Human-Computer Interaction 3 sem. hrs.
- COSC 5345 - System Simulation and Modeling 3 sem. hrs.
- COSC 5348 - Expert Systems 3 sem. hrs.
- COSC 5350 - Advanced Topics in DBMS 3 sem. hrs.
- COSC 5353 - Compiler Design and Construction 3 sem. hrs.
- COSC 5354 - Artificial Intelligence 3 sem. hrs.
- COSC 5355 - Data Communications and Networking 3 sem. hrs.
- COSC 5356 - Theory of Computation 3 sem. hrs.
- COSC 5357 - Wireless Sensor Networks 3 sem. hrs.
- COSC 5360 - Parallel Computing 3 sem. hrs.
- COSC 5361 - Parallel Algorithms 3 sem. hrs.
- COSC 5362 - Mobile Software Development 3 sem. hrs.
- COSC 5370 - Advanced Software Engineering 3 sem. hrs.
- COSC 5374 - Computer Forensics 3 sem. hrs.
- COSC 5375 - Information Assurance 3 sem. hrs.
- COSC 5376 - Network Security 3 sem. hrs.
- COSC 5377 - Applied Cryptography 3 sem. hrs.
- COSC 5379 - Advanced Information Assurance 3 sem. hrs.
- COSC 5590 - Selected Topics 1-5 sem. hrs.
- GSCS 6329 - Scientific Visualization 3 sem. hrs.
- GSCS 6344 - Ubiquitous Positioning sem. hrs.
- GSCS 6390 - Special Topics 3 sem. hrs.
- GSEN 5355 - Design and Analysis of GIS Applications 3 sem. hrs.
- GSEN 5365 - Spatial Database Design 3 sem. hrs.
- GSEN 5381 - Cadastral Information Systems 3 sem. hrs.
- GSEN 5382 - Policy and Legal Aspects of Spatial Information Systems 3 sem. hrs.
- GSEN 5383 - Advanced Geospatial Analysis and Design 3 sem. hrs.
- GSEN 5384 - Geospatial Visualization Design 3 sem. hrs.
- GSEN 5385 - Analytical and Digital Photogrammetric Engineering 3 sem. hrs.
- GSEN 5387 - Geospatial Intelligence Techniques 3 sem. hrs.
- GSEN 5388 - Geospatial Internet Engineering 3 sem. hrs.
- GSEN 5390 - Advanced Topics 3 sem. hrs.
• COSC 5336 - Database Management Systems 3 sem. hrs.
• COSC 5393 - Research Methods in Computer Science 3 sem. hrs.

For Additional Information

Website: http://gscs.tamucc.edu/

Campus address: Center for Instruction, Room 301; Phone: (361) 825-2474

Mailing address: Computer Science Program, Unit 5825
College of Science and Engineering
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5825

Department of Life Sciences

Master of Science

Biology, MS

Program Description

The Master of Science in Biology is designed for graduate students who wish to become knowledgeable leaders and professionals with an in-depth education and specialized skills in the field of biology. This program promotes competency in the application of scientific methods of investigation to studies in biology with an emphasis on urban and coastal issues. Students develop a sense of creative independence that will allow them to practice in and contribute to a variety of professions and fields of scholarship.

Student Learning Outcomes

Students will:

• Exhibit a basic mastery of essential and emerging knowledge and techniques in the field of biology, and in-depth mastery in the concepts and methods of their specific area of study.
• Work closely with their graduate advisory committee members to develop an academic plan that provides the student with chances to use the scientific method, is grounded in the principles of Biology, and includes experiences that are appropriate for each student's chosen career path.
• Demonstrate the ability to collect data, to organize and interpret data in the context of the relevant literature, and then to accurately describe their findings (orally and in writing).
• Develop an advanced skill set and a record of contributions to the discipline such that they can continue in academia or secure employment in federal, state, or local agencies, in private companies, or in non-governmental organizations where they can apply the skills and knowledge acquired in the program.

Admission Requirements

Completed applications must be received by the University Office of Research and Graduate Studies by the specified priority deadlines:

Fall Semester - February 1
Spring Semester - August 1
Summer Sessions - February 1

To be considered for admission to the MS Program in Biology, an applicant should apply online through the College of Graduate Studies. Applicants must provide the following: a completed application form; application fee; official GRE scores; official transcripts of all college and university coursework; an essay (not more than 1000 words) describing educational and career goals, and interests as they relate to program faculty (see http://www.sci.tamucc.edu/member.php?who=all&program=lsci); a list of the program faculty members contacted; and three letters of recommendation from people familiar with their potential for graduate studies. **Students must contact potential advisors prior to and during the application process to discuss research opportunities in faculty member labs.** A faculty member must be willing to serve as the chair of the applicant's Graduate Advisory Committee and the applicant must include a summary of their discussions with faculty members in their essay. **Applicants who do not have a faculty member willing to serve as their committee chair will not be admitted to the program.** Additional requirements exist for international students, including TOEFL scores from the ETS taken within the last two years for students from countries where English is not the native language, and an approved foreign transcript evaluation that includes a course-by-course comparison (refer to the Admission section of this catalog). No criterion is weighted more heavily than any other criterion. A campus visit including personal interviews with prospective faculty mentors is recommended. Incomplete applications are not considered. Applications received or completed after the deadline for admission during one semester may be considered for admission in the following semester at the applicant's request. Applicants will be notified of the outcome of their application by email.
Teaching Assistantships, graduate research assistantships or fellowships may be available to graduate students admitted as degree-seeking students who maintain full time graduate student status (9 hours/fall and spring semesters, and 3 hours/summer). The completed Teaching Assistant Application (http://www.sci.tamucc.edu/stweb/students/gradfunding.html) and all other materials requested for evaluation should be submitted to the office indicated on that form. For full consideration, the deadline for submitting applications is February 1 for the following academic year. Faculty members conducting funded research projects often hire qualified graduate students as Research Assistants. Students will need to contact faculty members in their field of interest for information on these opportunities.

Non-degree students may enroll in courses for which they have adequate academic preparation, but they may not apply more than nine credit hours of work taken in non-degree status to a graduate degree program. Non-degree students must consult with the MS Biology Graduate Coordinator to determine courses in which they can enroll and expect to apply to the MS Biology degree, should they be admitted to the program. Students must earn a grade of "B" or better in courses taken prior to admission to the program for the courses apply to the plan of study.

**Academic Preparation**

Degree candidates in biology are expected to enter the program with competencies that are equivalent to those required of Texas A&M University-Corpus Christi undergraduate biology majors as described in the biology section of the undergraduate catalog. Therefore, a degree candidate who lacks adequate academic preparation may be required by his or her Graduate Advisory Committee to complete undergraduate course work prior to the completion of the MS degree. Such course work (4000-sequence or lower) will be regarded as foundation or prerequisite work and will not count as credit towards the total required for completion of the degree.

**Graduate Credit From Other Disciplines**

Graduate students in the Master of Science in Biology program may take courses from other disciplines in the College of Science and Engineering such as BIMS, CHEM, ESCI, GISC, GSEN, MARB, FAMA, MATH, and CMSS with approval from the student's graduate advisor/advisory committee. Up to nine semester credit hours of graduate courses from other colleges at Texas A&M University-Corpus Christi may be included as part of a degree plan with approval from the student's graduate advisory committee.

Degree Requirements
Each Master of Science degree candidate must complete a minimum of 36 graduate semester credit hours. Undergraduate courses (4000-sequence or lower) are regarded as foundation work and will not count toward the total. A student may request approval for transfer of a maximum of 9 semester credit hours of graduate courses from other colleges or universities to a Master of Science in Biology degree plan.

After admission to the graduate program, the student's graduate advisor will guide him/her in all matters relating to degree requirements and procedures until the Graduate Advisory Committee is formed. By the end of the first semester of graduate study the student, in consultation with his/her graduate advisor, will select the remaining members of the Graduate Advisory Committee. This committee will advise the student in all matters pertaining to graduate requirements and procedures. A student's Graduate Advisory Committee must consist of a minimum of three members, at least two of whom must be members of the graduate faculty in the Department of Life Sciences. Additional committee members must be members of the graduate faculty at Texas A&M University-Corpus Christi or an adjunct graduate faculty member in the Department of Life Sciences. The Chair of a student's Graduate Advisory Committee must be a member of the graduate faculty in the Department of Life Sciences. The student and all members must mutually agree to the size and composition of the Graduate Advisory Committee. The committee will recommend a Degree Plan for the student that will then be submitted to the Dean of the College of Science and Engineering for approval.

There are two plans for obtaining the Master's Degree in Biology: the Professional (Non-Thesis) Plan and the Thesis Plan.

A. Professional (Non-Thesis) Plan (36 semester hours)

The Professional (non-thesis) Master's Degree is designed to provide a broad understanding of biology. The curriculum will especially benefit those individuals in professional employment who seek advancement or additional training to enhance their knowledge and skills. The student is required to write a professional paper based on work done in BIOL 5397 - Directed Research. The paper will be on a topic approved by the student's Graduate Advisory Committee and will demonstrate the student's ability in organization, data collection, and scientific writing. Graduate students are encouraged to present their research at a scientific meeting (other than their graduate seminar) prior to graduation.

The following courses are required:

- BIOL 5102 - Graduate Defense Seminar 1 sem. hrs.
- BIOL 5397 - Directed Research 3 sem. hrs.
- MATH 6315 - Statistical Methods in Research 1 3 sem. hrs.
• Advanced Electives 29 sem. hrs. minimum *

Total: 36 semester hours

Note:

* The advanced electives must be approved by the student’s Graduate Advisory Committee in order to be counted for credit towards the graduate degree.

B. Thesis Plan (36 semester hours)

The thesis Master's Degree requires a thesis based upon original research. The research must include a review of relevant literature, a description of the results from original research on a topic approved by the Graduate Advisory Committee, statistical analysis when appropriate, and an appropriate discussion of the results. The research must be conducted during the period that the student is enrolled at Texas A&M University-Corpus Christi. Graduate students are expected to present their research at a scientific meeting (other than their graduate seminar) prior to graduation.

The following courses are required:

• BIOL 5102 - Graduate Defense Seminar 1 sem. hrs.
• BIOL 5392 - Thesis Proposal 3 sem. hrs.
• BIOL 5393 - Thesis Research 3 sem. hrs.
• BIOL 5394 - Thesis Submission 3 sem. hrs.
• MATH 6315 - Statistical Methods in Research I 3 sem. hrs.
• Advanced Electives 23 sem. hrs. minimum *

Total: 36 semester hours

Note:

* The advanced electives must be approved by the student's Graduate Advisory Committee in order to be counted for credit towards the graduate degree. Up to 4 hours of BIOL 5940 - Project Research may be applied to MS Biology Thesis degree plan requirements.

Additional Information

Thesis students may change to the Professional (Non-Thesis) Plan at any time with the approval of the Graduate Advisory Committee.
The thesis and professional paper must follow format requirements as established in the Biology Graduate Handbook, and must be approved and signed by the members of the student's Graduate Advisory Committee, the Chair of the Department of Life Sciences, the Dean of the College of Science and Engineering, and the Dean of Graduate Studies.

Enrollment Requirements

All students are required to maintain continuous registration until completion of all requirements for graduation unless a specific leave of absence is granted in writing by the department. Students funded through scholarships, fellowships, and assistantships are required to maintain a minimum number of credit hours per semester (9 hours/fall and spring semester, and 3 hours/summer). To meet enrollment requirements after completing all formal coursework on the degree plan, a student may register for BIOL 5940 - Project Research.

Thesis Defense Seminar and Oral Examination

During the graduate student's final semester before graduation, he or she must enroll in BIOL 5102 - Graduate Defense Seminar. To successfully complete this requirement, the student must 1) present and defend his/her thesis research in front of an audience including his/her Graduate Advisory Committee, peers, and other faculty, and 2) pass a final oral examination. The student's Graduate Advisory Committee will administer the examination. It will cover topics related to the thesis research or professional paper as well as broad aspects of biology. The student is responsible for scheduling the examination with the faculty involved according to program guidelines. A student who fails the final oral examination may repeat it after a minimum of four months. If a student fails the second oral examination, he or she will not be permitted to continue in the program.

Graduate Courses

Graduate standing is required for enrollment in 5000- and 6000-level courses. Exceptions can be made for outstanding undergraduate students with the Dean's consent. For details, see "Graduate Study by Undergraduates" in the catalog chapter titled "Academic and Degree Requirements." Weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the semester hours when appropriate. The number of laboratory hours shown is the number of formal, scheduled laboratory time. In most cases, additional laboratory time will be required to complete assigned work. Prerequisites for entry into a course are indicated, but may be waived with permission of the instructor.
Graduate Courses can be viewed in the Course Descriptions section.

For Additional Information

**Website:** http://lsci.tamucc.edu/biol

**Campus address:** Engineerering Building, Room 319; Phone (361) 825-2754

Graduate Biology Program, Unit 5800
College of Science and Engineering
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5800

**Mailing address:**
Graduate Biology Program, Unit 5800
College of Science and Engineering
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5800

**Fisheries and Mariculture, MS**

**Program Description**

The Fisheries and Mariculture Program offers an M.S. degree with a choice of emphasis in either fisheries or mariculture. Our students enjoy a low student-faculty ratio and opportunities to study the biology of ecologically and commercially important Gulf of Mexico species as well as economically important cultured marine species. Nearly all students receive financial support from assistantships, fellowships, or scholarships awarded by the university and by private and public agencies.

Faculty members supervise student research on topics such as fisheries ecology, habitat restoration, aquatic animal culture, and nutrition. In addition to university facilities, students may conduct research at partner institutions including the Texas AgriLife Mariculture facility and the Texas Parks and Wildlife Department Marine Development Center fish hatchery in Flour Bluff.

Our students learn the skills necessary for positions in both the public and private sectors of the fisheries and mariculture industries. Student research topics have ranged from life history and distribution of dolphinfish, to culture of Pacific white shrimp under limited water exchange, to the relative value of estuarine habitats for finfish and crustaceans. Researchers use an array of quantitative research tools ranging from statistical analyses to molecular techniques and GIS.

**Student Learning Outcomes**

Students will:
• Exhibit their mastery of the subject knowledge and skills in the field of fisheries or mariculture.
• Work closely with their graduate advisors and committee members to develop a formal academic plan that outlines the progression of their academic path, provides opportunities to learn and use the scientific method, is grounded in the principles of fisheries or mariculture, and includes experiences that are appropriate for their chosen career path.
• Demonstrate the ability to collect data, to organize and interpret data in the context of the relevant literature, and then to accurately describe their findings (orally and in writing).
• Develop an advanced skill set and record of contributions to the discipline such that they can continue in academia or secure employment in federal, state, or local agencies, in private companies, or in non-governmental organizations where they can apply the skills and knowledge acquired in the program.

Admission Requirements

Individuals seeking admission to the Fisheries and Mariculture (FAMA) Program should apply through the Office of Graduate Studies. In addition to the basic university requirements, the Fisheries and Mariculture Program requires that applications from potential students include an essay explaining the student's educational and career goals, three letters of evaluation from people familiar with their potential for graduate studies, transcripts of all previous undergraduate/graduate work, and Graduate Record Examination (GRE) scores that are not more than five (5) years old. Applicants must include a list of the TAMU-CC faculty members they contacted concerning mentorship prior to application submission. Although most faculty members in the Department of Life Sciences can mentor a FAMA student, the Fisheries and Mariculture Program Coordinator can provide a current list of faculty actively involved in the FAMA Program and a description of their research. Additional requirements exist for international students. These include TOEFL scores from ETS taken within the last two (2) years for students from countries where English is not the native language and a course-by-course foreign transcript evaluation through an approved service (refer to the Admissions section of this catalog). All relevant supplemental materials (such as publications or resumes that include information about relevant experiences) that are submitted with the application will be considered. Send application documents to the College of Graduate Studies. A campus visit, including personal interviews with prospective faculty mentors, is highly recommended. Persons seeking admission to the M.S. Program in Fisheries and Mariculture should first contact program faculty and identify a faculty member willing to serve as the graduate advisor. Applicants will not be admitted to the program without a graduate advisor.
Completed applications must be received by the College of Graduate Studies by the specified priority deadlines:

Fall Semester: February 1  
Spring Semester: August 1

Incomplete applications are not considered. The applicant will be notified of acceptance or rejection by letter.

Teaching assistantships, graduate research assistantships, and fellowships may be available to admitted degree-seeking students who maintain full-time graduate student status (9 hours/fall and spring semester, and 3 hours/summer). The completed Teaching Assistant Application (http://sci.tamucc.edu/students/gradfunding.html) and all other materials requested for evaluation should be submitted to the office indicated on that form. For full consideration, the deadline for submitting applications is February 1 for fall semester and August 1 for spring semester. A limited number of fellowships are available. Faculty members conducting funded research projects often hire qualified graduate students as Research Assistants. Students will need to contact faculty members in their field of interest for information on these opportunities.

Non-degree students may enroll in courses for which they have adequate academic preparation, but they may not apply more than nine credit hours of work taken in non-degree status to a graduate degree program. Non-degree students must consult with the Fisheries and Mariculture Program Coordinator to determine those courses in which they may enroll and those courses they may later apply to a Fisheries and Mariculture degree, should they be admitted into the program. Students must earn a grade of "B" or better in each of the prescribed courses in order to have the courses apply to the plan of study.

Academic Preparation

Students entering the Fisheries and Mariculture Program are expected to have a strong background in biological and physical sciences, with competencies equivalent to those required of Texas A&M University-Corpus Christi undergraduate biology majors (see the biology section of the undergraduate catalog). A student who lacks adequate academic preparation in a particular subject area, but who is otherwise well-qualified to enter the graduate program, may be required to complete appropriate leveling courses at the undergraduate level in addition to courses specified for the graduate degree. Such courses (4000-sequence or lower) do not count as credit towards the total required for completion of the graduate degree.

Coursework and Research
Courses and research for the graduate degrees are taken with the approval of the student's committee (or graduate advisor for Professional track students). Students must demonstrate that the selection of classes or research projects produces a coherent course of study focused on the student's particular area of emphasis. Depending on the emphasis area, elective and specialized coursework selections may be chosen from biology, chemistry, coastal and marine system science, computer science, environmental science, geographic information science, geology, marine biology, mathematics, or other course offerings as approved by the student's committee (or graduate advisor for Professional track students).

The Fisheries and Mariculture Program requires 36 semester hours of coursework. Students are required to take a minimum of 18 semester credit hours (SCH) from regular, graded (non-research, non-variable credit) coursework. Classes or research projects designated as part of the specialized coursework requirement must receive the approval of a student's committee (or graduate advisor for Professional track students).

Format and Style of Theses and Professional Papers

The thesis and professional paper must follow format requirements established in the Fisheries and Mariculture Graduate Handbook and must be approved and signed by the members of the student's committee (or graduate advisor for Professional track students), the Chair of the Department of Life Sciences, the Dean of the College of Science and Engineering, and the Dean of Graduate Studies. For more information, consult the College of Graduate Studies.

Once the thesis is completed and approved by the committee, the results of the research must be presented orally and publicly. The final defense/oral examination usually takes place immediately following the seminar. Professional track students will not be required to present a public graduate defense seminar at the conclusion of the program, but must have their professional paper approved by their graduate advisor and qualified member of the organization providing the internship, in combination with a final oral examination. Graduate students are expected to present their research at a scientific meeting (other than their graduate seminar) prior to graduation.

Upon approval by a student's committee (or graduate advisor for Professional track students), a copy of the thesis/professional paper will be sent to the Dean of the College of Graduate Studies. At the time of successful completion of the thesis exam, committee members (or graduate advisor for Professional track students) will sign the thesis and return it to the Dean of the College of Graduate Studies for final approval and signature.

Final Presentation and Examination
All students must successfully present a summary of their research or internship results and complete a comprehensive oral examination during their final semester. During their last semester, thesis students must enroll in FAMA 5102 - Graduate Defense Seminar. To successfully complete this requirement, thesis students must 1) present and defend their thesis research in front of an audience including his/her committee, peers, and other faculty, and 2) pass a final oral examination. Professional track students are required to enroll in FAMA 5397 - Professional Paper Submission during their final semester and must 1) present and defend their professional paper to their graduate advisor and qualified member of the organization providing the internship, and 2) pass a final oral examination. This examination will be administered by the student's graduate advisory committee (or graduate advisor and qualified member of the organization providing the internship) and will include topics related to: 1) all graduate coursework undertaken in the Fisheries and Mariculture Program, 2) the student's internship or research project, and 3) broad concepts of fisheries or mariculture, including a familiarity with the literature and pertinent professional societies. Students are responsible for scheduling the presentation and oral examination with their graduate advisory committees (or graduate advisor for Professional track students). A student failing to successfully complete the comprehensive oral examination may repeat it once by the end of the next long semester. A student failing the oral examination for the second time will be terminated from the program.

The Master of Science in Fisheries and Mariculture

The MS in Fisheries and Mariculture requires 36 semester hours of coursework. A student may request approval for transfer of a maximum of nine (9) semester credit hours of graduate courses from other colleges to a MS in Fisheries and Mariculture degree plan. Thesis students may change from Thesis to Professional option at any time with the approval of their graduate advisor. Specific option/degree requirements must be met.

1. Professional Option

The Professional track Master's Degree is designed to provide a broad understanding of fisheries or mariculture and is focused upon practical, hands-on experience in fisheries or mariculture techniques. The ultimate goal of this option is to provide students with the skills and techniques needed to improve their opportunity for employment within the industry. Students are required to undertake an extensive internship program with an approved agency, institution or commercial operation. The Professional track is substantially different from that of the Thesis option in that: 1) Professional track students will not need to form a graduate advisory committee upon acceptance to the Program. Instead, students will be supervised by a designated FAMA advisor (member of the faculty) and a qualified member of the organization providing the internship. 2)
Professional track students will enter into an internship agreement with the sponsor to maintain a jointly-determined training schedule with specific objectives. These objectives will be in-line with hiring guidelines for the sponsoring entity and will be conducted as part of FAMA 5998 - Internship. 3) Upon completion of the internship, professional track students will be required to write a professional paper discussing a particular aspect of their training. This document should be designed for publication in a trade journal, agency bulletin, or similar publication. The topic and format of the document will be approved by the faculty advisor and agent of the sponsor. 4) Professional track students will not be required to present a public graduate defense seminar at the conclusion of their program.

To graduate under the Professional track degree plan, a student must complete a minimum of 36 graduate semester credit hours. Students must take FAMA 5370 - Mariculture or FAMA 5328 - Fisheries Ecology and Management, depending on the track, MATH 6315 - Statistical Methods in Research I, and FAMA 5397 - Professional Paper Submission. Depending on the student's focus in fisheries or mariculture, either FAMA 5312 - Mariculture Techniques or FAMA 5329 - Fisheries Techniques is also required. The residual hours needed to complete the degree plan will be achieved via FAMA 5998 - Internship, which may range from 12-18 hrs. FAMA 5397 - Professional Paper Submission should be taken in the last semester of the student's academic tenure.

Success in completion of the FAMA Professional track option will be determined by the following factors: 1) satisfactory completion of the internship in a timely manner; 2) assessment by the sponsor and faculty advisor; 3) quality of the professional paper; and 4) successful completion of the comprehensive oral examination. Satisfactory completion of the internship will be determined jointly by the sponsor and academic advisor. Assessment will typically be in the form of a professional interview.

Mariculture Professional Option Degree Plan

To graduate under the Mariculture Professional Option degree plan, a student must complete:

- FAMA 5370 - Mariculture 3 sem. hrs.
- FAMA 5312 - Mariculture Techniques 3 sem. hrs.
- FAMA 5421 - Chemistry of Natural Waters 4 sem. hrs.
- FAMA 5315 - Diseases and Parasites of Aquatic Organisms 3 sem. hrs.
- FAMA 5397 - Professional Paper Submission 3 sem. hrs.
- FAMA 5998 - Internship 1-9 sem. hrs. (maximum of 18 sem. hrs.)
- MATH 6315 - Statistical Methods in Research I 3 sem. hrs.
- Elective, specialized, and topical coursework at the discretion of the graduate advisor 1-19 sem. hrs.*
Total: 36 sem. hrs.

*Note:

Elective, specialized or topical coursework must be approved by the student's Graduate Advisor in order to be counted for credit towards the graduate degree.

Fisheries Professional Option Degree Plan

To graduate under the Fisheries Professional Option degree plan, a student must complete:

- FAMA 5328 - Fisheries Ecology and Management 3 sem. hrs.
- FAMA 5329 - Fisheries Techniques 3 sem. hrs.
- MATH 6315 - Statistical Methods in Research 1 3 sem. hrs.
- FAMA 5397 - Professional Paper Submission 3 sem. hrs.
- FAMA 5998 - Internship 1-9 sem. hrs. (maximum of 18 sem. hrs.)
- Elective, specialized, and topical coursework at the discretion of the graduate advisor 1-18 sem. hrs.*

Total: 36 sem. hrs.

*Note:

Elective, specialized or topical coursework must be approved by the student's Graduate Advisor in order to be counted for credit towards the graduate degree.

2. Thesis Option

The thesis option for a Master's Degree requires a thesis based upon original research conducted during the period that the student is enrolled at Texas A&M University-Corpus Christi. The research must include a review of relevant literature, a description of the results from original research on a topic approved by the committee, statistical analysis as appropriate, and an appropriate discussion of the results. To graduate under the thesis degree plan, a student must complete a minimum of 36 graduate semester credit hours.

Four courses form the required research component of the degree for MS (thesis): FAMA 5392 - Thesis Proposal, FAMA 5393 - Thesis Research, FAMA 5394 - Thesis Submission, and FAMA 5102 - Graduate Defense Seminar. Students must enroll in FAMA 5102 - Graduate Defense Seminar and FAMA 5394 - Thesis Submission during their last semester when the thesis will be completed.

Mariculture Thesis Option Degree Plan
To graduate under the Mariculture Thesis Option degree plan, a student must complete:

- FAMA 5102 - Graduate Defense Seminar 1 sem. hrs.
- FAMA 5370 - Mariculture 3 sem. hrs.
- FAMA 5312 - Mariculture Techniques 3 sem. hrs.
- FAMA 5393 - Thesis Research 3 sem. hrs.
- FAMA 5394 - Thesis Submission 3 sem. hrs.
- MATH 6315 - Statistical Methods in Research I 3 sem. hrs.
- MATH 6316 - Statistical Methods Research II 3 sem. hrs.
- OR
  - CMSS 6323 - Experimental Design 3 sem. hrs.
- Elective, specialized and topical coursework 14 sem. hrs.*

Total: 36 sem. hrs.

*Note:

Elective, specialized or topical coursework must be approved by the student's Graduate Advisor in order to be counted for credit towards the graduate degree.

Fisheries Thesis Option Degree Plan

To graduate under the Fisheries Thesis Option degree plan, a student must complete:

- FAMA 5102 - Graduate Defense Seminar 1 sem. hrs.
- FAMA 5328 - Fisheries Ecology and Management 3 sem. hrs.
- FAMA 5329 - Fisheries Techniques 3 sem. hrs.
- FAMA 5393 - Thesis Research 3 sem. hrs.
- FAMA 5394 - Thesis Submission 3 sem. hrs.
- MATH 6315 - Statistical Methods in Research I 3 sem. hrs.
- MATH 6316 - Statistical Methods Research II 3 sem. hrs.
- OR
  - CMSS 6323 - Experimental Design 3 sem. hrs.
- Elective, specialized and topical coursework 14 sem. hrs.*

Total: 36 sem. hrs.

*Note:

Elective, specialized or topical coursework must be approved by the student's Graduate Advisor in order to be counted for credit towards the graduate degree.
Master's International Program Option

Master's International (MI) is a joint program between the Peace Corps and Texas A&M University-Corpus Christi (TAMUCC). Students in this program participate in Peace Corps volunteer service while earning a Master of Science in Fisheries and Mariculture. Students first apply and are accepted to the FAMA graduate program at TAMUCC and then apply to the Peace Corps to participate in the MI program. Nine (9) hours of research or internship credit may be earned during Peace Corps service, during which project updates are submitted from the field. At the beginning of their program, each student will develop an appropriate Degree Plan with their graduate committee (or graduate advisor for Professional track students) in order to customize their curriculum. The MI program was retired by the Peace Corps with the last group of students starting Fall 2016. This program is no longer available.

Students generally complete their required coursework during two semesters prior to Peace Corps service and one semester following Peace Corps service. After their service, students return to campus and enroll in Thesis or Professional Paper Submission, Graduate Defense Seminar, and final electives or research hours as appropriate. Students who are unable to complete their Peace Corps service may continue in the Fisheries and Mariculture Program if they are in good academic standing and their graduate committee (or graduate advisor for Professional track students) approves.

Master's International students will follow the requirements of the thesis or professional track, as determined by their committee (or graduate advisor for Professional track students).

For Additional Information

Website: http://fama.tamucc.edu

Campus address: Engineering Building, Room 319, phone (361) 825-2754
Fisheries and Mariculture Program, Unit 5800
College of Science and Engineering
Mailing address: Texas A&M University – Corpus Christi
6300 Ocean Drive
Corpus Christi, Texas 78412-5800

Marine Biology, MS

Program Description
The Marine Biology Program is designed for students with an interest in one or more of the subdisciplines of marine biology who wish to pursue careers in higher education, government, or private industry. This unique, interdisciplinary degree program (IDP) combines the strengths of various departments at three universities within the Texas A&M University System: Life Sciences at Texas A&M-Corpus Christi, Marine Biology and Marine Sciences at Texas A&M University at Galveston (TAMU-G), and Wildlife and Fisheries Sciences, Oceanography and Biology at Texas A&M University (TAMU). Students can choose courses from any campus and form committees with any participating faculty. Advantages of the interdisciplinary degree format for Marine Biology students include a diverse, internationally recognized faculty with high scholarly productivity and extramural funding, as well as two campuses strategically located on the Gulf of Mexico. A student in the IDP receives his or her degree from both Texas A&M University and Texas A&M University-Corpus Christi.

The Marine Biology program offers the Master of Science and the Doctor of Philosophy degrees in Marine Biology. A personalized graduate advisory committee guides each student through the conception, design, construction, and execution of marine biology-based inquiry.

**Student Learning Outcomes**

As part of their progression through the Marine Biology Program, Master of Science students will:

- Gain an in-depth of knowledge of essential and emerging concepts in the field of marine biology.
- Perform scholarly hypothesis-driven research grounded in marine biological principles and concepts.
- Demonstrate advanced communication skills through either presentation of research results at professional scientific meetings and/or through peer-reviewed publication.
- Develop a skill set and research record such that they can secure employment in academia, state/federal agencies, private companies, or non-governmental organizations.

**Admission Requirements**

Those seeking admission to the Marine Biology Program should apply online through the College of Graduate Studies (CGS). In addition to the documents required by that office, applicants must submit an essay of no more than 1,000 words describing their educational and career goals, and interests as they relate to the faculty in the Marine Biology
Program; a list of names of program faculty members contacted; three letters of recommendation from people familiar with their potential for graduate studies; transcripts of all previous undergraduate/graduate work; Graduate Record Examination (GRE) scores that are not more than 5 years old; and a résumé. Additional requirements exist for international students, including TOEFL scores from ETS taken within the last two years for students from countries where English is not the native language, and a course by course foreign transcript evaluation through an approved service (refer to the Admission section of this catalog). All relevant supplemental materials (such as publications or other documents that include information about relevant experiences) that are submitted with the application will be considered. Persons seeking admission to the M.S. Program in Marine Biology should first contact the program faculty and identify a faculty member willing to serve as the graduate advisor. Applicants will not be admitted to the program without a graduate advisor.

Completed applications must be received by the CGS by the specified priority deadlines:

- Fall Semester - December 1
- Spring Semester - June 1

Incomplete applications will not be considered. The applicant will be notified of acceptance or rejection by letter.

Teaching assistantships, graduate research assistantships, and fellowships may be available to admitted degree-seeking students who maintain full-time graduate student status (9 hours/fall and spring semester, and 3 hours/summer). The completed Teaching Assistant Application (http://www.sci.tamucc.edu/students/gradfunding.htm) and all other materials requested for evaluation should be submitted as per instructions on that form. For full consideration, the deadline for submitting applications is December 1 for the following academic year. A limited number of fellowships are available, and faculty members conducting funded research projects often hire qualified graduate students as Research Assistants. Students will need to contact faculty members in their field of interest for information on these opportunities.

Non-degree students may enroll in courses for which they have adequate academic preparation, but they may not apply more than nine credit hours of work taken in non-degree status to a graduate degree program. Non-degree students must consult with the Marine Biology Program Coordinator to determine those courses in which they may enroll and those courses they may later apply to a Marine Biology degree, should they be admitted into the program. Students must earn a grade of "B" or better in each of the prescribed courses in order to have the courses apply to the plan of study.

**Academic Preparation**
Students entering the Marine Biology Program are expected to have a strong background in biological and physical sciences, with competencies equivalent to those required of biology majors graduating from Texas A&M University-Corpus Christi (see the biology section of the undergraduate catalog). Students lacking adequate academic preparation in a particular subject area, but who are otherwise well-qualified to enter the graduate program, may be required to complete appropriate undergraduate course work in addition to that specified for the graduate degree. Such courses (4000-sequence or lower) are regarded as foundation or leveling work and do not count as credit towards the total required for completion of the graduate degree.

**Advising and the Graduate Advisory Committee**

After being accepted in the Marine Biology (MARB) program and enrolling, the student must form a graduate advisory committee (GAC). Students should form a graduate advisory committee with the approval of their advisor by the end of their first long semester in the MARB program to help guide them through their degree program. Students are strongly encouraged to meet with their committee at a minimum of once per year to seek continual guidance on their research program.

Composition and size of the committee should reflect the scope of the intended graduate studies and should be developed with substantial input from the student's advisor(s). The advisor(s) will serve as chair(s) of the committee. The majority of the committee members must be members of the Marine Biology Participating IDP Graduate Faculty (PGF) and TAMUS schools of TAMU-CC, TAMU, and TAMUG. Recognized scholars who are not a member of the TAMU-CC graduate faculty may serve on a student's committee by submitting a letter of request from the advisor, through the TAMU-CC Marine Biology Program Coordinator, with the individual's resume attached as well as a completed "Form 2" from CGS (Graduate Faculty Status Application). The scholar may serve upon approval of the TAMU-CC GCS. Only one CGS appointed scholar may be counted toward the minimum committee member composition. For Masters of Science in Marine Biology degrees, the committee shall consist of no fewer than three members, two of which must belong to the MARB IDP Graduate Faculty, including the advisor(s). The Chair (and/or Co-Chair) must be a member of the MARB IDP Graduate Faculty.

**Enrollment Requirements**

All students are required to maintain continuous registration until completion of all requirements for graduation unless a specific leave of absence is granted in writing by the department. Students funded through scholarships, fellowships and assistantships are required to maintain a minimum of 9 hours/fall and spring semester, and 3 hours/summer.
To meet enrollment requirements after completing all formal coursework on the degree plan, a student may register for MARB 5940 - Thesis Project Research.

**Coursework and Research**

The MS in Marine Biology is designed for graduate students who wish to become knowledgeable leaders and professionals with an in-depth education and specialized skills in the field. Students will develop a sense of creative independence that will allow them to practice in and contribute to a variety of professions and fields of scholarship.

For MS students, the program offers a thesis and a non-thesis degree option (see below). Thesis students may change between the Thesis and Non-Thesis option at any time with the approval of the GAC. Specific option/degree requirements must be met. A student may request approval for transfer of a maximum of nine semester credit hours of graduate courses from other colleges to a MS in Marine Biology degree plan. Courses and research for the graduate degrees can be taken from Texas A&M-Corpus Christi, TAMU, or TAMU-G with the approval of the student's GAC. Students must demonstrate to the GAC that the selection of classes or research projects produces a coherent course of study focused on the student's particular area of emphasis.

1. **Specialized and Elective Coursework**
   Depending on the emphasis area, elective and specialized coursework selections may be chosen from biology, biomedical sciences, chemistry, coastal and marine system science, computer science, environmental science, geographic information science, geospatial surveying engineering, geology, fisheries and mariculture, mathematics, or other course offerings as stipulated and approved by the GAC. Classes or research projects designated as part of the specialized coursework requirement must receive the approval of a student's GAC.

2. **Coursework Requirements and Limitations**
   The program specifies the minimum number of semester credit hours (SCH) that must be earned from regular, graded (non-research, non-variable credit) coursework: for students in the MS non-thesis option, 33 of 36 total hours; for students in the MS thesis option, 23 of 32 total hours. A student earns SCH credit for MARB 6596 - Directed Independent Study, but may apply only 3 SCH toward the degree without prior approval of the student's GAC and the Marine Biology Program Coordinator.

1. **Non-Thesis Option**

The non-thesis Master's Degree is designed to provide a broad understanding of marine biology. The curriculum will especially benefit those individuals in professional employment who seek advancement or additional training to enhance their knowledge.
and skills. The student is required to write a professional paper based on research conducted in MARB 5397 - Directed Research. The paper will be on a topic approved by the student's GAC and will demonstrate the student's abilities in organization, data collection, and scientific writing. To graduate under the non-thesis degree plan, a student must complete a minimum of 36 graduate semester credit hours. The student will complete:

- MARB 6102 - Graduate Research Seminar 1 sem. hrs.
- MARB 5397 - Directed Research 3 sem. hrs.
- MATH 6315 - Statistical Methods in Research I 3 sem. hrs.
- Elective, specialized, and topical coursework 29 sem. hrs.

Total: 36

2. Thesis Option

The thesis Master’s Degree requires a thesis based upon original research conducted during the period that the student is enrolled at Texas A&M University-Corpus Christi. The research must include a review of relevant literature, a description of the results from original research on a topic approved by the GAC, statistical analysis when appropriate, and an appropriate discussion of the results. To graduate under the thesis degree plan, a student must complete a minimum of 32 graduate semester credit hours. Three courses form the required research component of the degree for the MS (thesis): MARB 5392 - Thesis Proposal, MARB 5393 - Thesis Research, and MARB 5394 - Thesis Submission. Students must enroll in MARB 5394 - Thesis Submission during their last semester when their theses will be completed. The student will complete:

- MARB 6102 - Graduate Research Seminar 1 sem. hrs.
- MARB 5393 - Thesis Research 3 sem. hrs.
- MARB 5394 - Thesis Submission 3 sem. hrs.
- MATH 6315 - Statistical Methods in Research I 3 sem. hrs.
- Elective, specialized, and topical coursework 19 sem. hrs.

Total: 32

Format and Style of Thesis or Professional Paper

The thesis or non-thesis professional paper must follow format requirements established in the Marine Biology Graduate Handbook and must be approved and signed by the members of the student's GAC, the Chair of the Department of Life Sciences, the Dean of
the College of Science and Engineering, and the Dean of Graduate Studies. Guidance can be found in the Marine Biology Student Handbook (www.marinebiology.tamucc.edu). For more information, consult the College of Graduate Studies.

Once the thesis/professional paper is completed and approved by the GAC, the results of the research must be presented orally and publicly. The final defense/oral examination usually takes place immediately following the seminar. Graduate students are encouraged to present their research at a scientific meeting (other than their graduate seminar) prior to graduation.

Upon approval by a student's GAC, a copy of the thesis/professional paper will be sent to the Dean of Graduate Studies. At the time of successful completion of the final defense/oral examination, committee members will sign the thesis/professional paper and return it to the Dean of Graduate Studies for final approval and signature.

Final Oral Defense Examination

Each student must pass a final oral defense examination during the last semester before graduation. Students should enroll in MARB 5394 - Thesis Submission during the semester in which they are planning to defend their thesis and/or graduate. The student's GAC administers this examination which covers topics related to: (1) all graduate coursework undertaken for the Marine Biology program, (2) the student's specific research area, and (3) broad concepts of general and marine biology including familiarity with the literature. The student is responsible for scheduling the defense with the faculty involved. A student who fails the defense may repeat it once after an interval of four months or more. If a student fails the second defense, he or she will be terminated from the program. Both MS options require a final examination: students pursuing the thesis option may schedule the final examination after completion of all course work and after at least the first draft of the thesis has been submitted to their GAC for review; non-thesis students may schedule the final examination after completion of all course work.

For Additional Information

**Website:** www.marinebiology.tamucc.edu

**Campus address:** Engineering Building, Room 319; Phone (361) 825-2754

Marine Biology Program, Unit 5800
College of Science and Engineering
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5800

**Mailing address:**
**Master's International, MS**

The Master's International (MI) is a joint program between the Peace Corps and Texas A&M University-Corpus Christi (A&M-Corpus Christi) that offers students a unique learning experience in which they earn academic credit for international service. The MI program was retired by the Peace Corps with the last group of students starting Fall 2016. This program is no longer available.

To participate in the MI program, students first apply and are accepted to the graduate program of A&M-Corpus Christi (in the Fisheries and Mariculture program) and then they apply to the Peace Corps. The student (with supervision from a graduate advisory committee) develops an appropriate project, and completes initial course work at A&M-Corpus Christi. Then the student is assigned to a community through the Peace Corps, travels to the placement site, and conducts the project according to the needs and requests of the host country.

Students in the Master's International program work toward the Fisheries and Mariculture, MS degree. The MI program is described more fully under the Fisheries and Mariculture program.

**Doctor of Philosophy**

**Marine Biology, PhD**

**Program Description**

The Marine Biology Program is designed for students with an interest in one or more of the subdisciplines of marine biology and who wish to pursue careers in higher education, government, or private industry. This unique, interdisciplinary degree program (IDP) combines the strengths of various departments at three universities within the Texas A&M University System: Life Sciences at Texas A&M-Corpus Christi, Marine Biology and Marine Sciences at Texas A&M University at Galveston (TAMU-G), and Wildlife and Fisheries Sciences, Oceanography and Biology at Texas A&M University (TAMU). Students can choose courses from any campus and form committees with any of the participating faculty. Advantages of the interdisciplinary degree format for Marine Biology students include a diverse, internationally recognized faculty with high scholarly
productivity and extramural funding, as well as two campuses strategically located on the Gulf of Mexico. Students receive their degree from both Texas A&M University and Texas A&M University-Corpus Christi.

The Marine Biology program offers the Master of Science and the Doctor of Philosophy degrees in Marine Biology. A personalized graduate advisory committee guides each student through the conception, design, construction, and execution of a marine biology-based inquiry.

Student Learning Outcomes

As part of their progression through the Marine Biology Program, Doctor of Philosophy students will:

- Gain an in-depth of knowledge of essential and emerging concepts in the field of marine biology.
- Perform scholarly hypothesis-driven research grounded in marine biological principles and concepts.
- Demonstrate advanced communication skills through either presentation of research results at professional scientific meetings and/or through peer-reviewed publication.
- Develop a skill set and research record such that they can secure employment in academia, state/federal agencies, private companies, or non-governmental organizations.

Admission Requirements

Those seeking admission to the Marine Biology Program should apply through the College of Graduate Studies (CGS). In addition to the documents required by that office, applicants must submit an essay of no more than 1,000 words describing their educational and career goals, and interests as they relate to the faculty in the Marine Biology Program; a list of names of faculty members contacted; three letters of recommendation from people familiar with their potential for graduate studies; transcripts of all previous undergraduate/graduate work; Graduate Record Examination (GRE) scores that are not more than 5 years old; and a résumé. Additional requirements exist for international students, including TOEFL scores from ETS taken within the last two years for students from countries where English is not the native language, and a course by course foreign transcript evaluation through an approved service (refer to the Admission section of this catalog). All relevant supplemental materials (such as publications or other documents that include information about relevant experiences) that are submitted with the application will be considered. Persons seeking admission to the Ph.D. Program in
Marine Biology should first contact the program faculty and identify a faculty member will to serve as the graduate advisor. Applicants will not be admitted to the program without a graduate advisor.

Completed applications must be received by the CGS by the specified priority deadlines:

- Fall Semester - December 1
- Spring Semester - June 1

Incomplete applications are not considered. The applicant will be notified of acceptance or rejection by letter.

Teaching assistantships, graduate research assistantships, and fellowships may be available to admitted degree-seeking students who maintain full-time graduate student status (9 hours/fall and spring semester, and 3 hours/summer). The completed Teaching Assistant Application (http://www.sci.tamucc.edu/students/gradfunding.html) and all other materials requested for evaluation should be submitted to the office indicated on that form. For full consideration, the deadline for submitting applications is December 1 for the following academic year. A limited number of fellowships are available, and faculty members conducting funded research projects often hire qualified graduate students as Research Assistants. Students will need to contact faculty members in their field of interest for information on these opportunities.

Non-degree students may enroll in courses for which they have adequate academic preparation, but they may not apply more than nine credit hours of work taken in non-degree status to a graduate degree program. Non-degree students must consult with the Marine Biology Program Coordinator to determine those courses in which they may enroll and those courses they may later apply to a Marine Biology degree, should they be admitted into the program. Students must earn a grade of "B" or better in each of the prescribed courses in order to have the courses apply to the plan of study.

**Academic Preparation**

Students entering the Marine Biology Program are expected to have a strong background in biological and physical sciences, with competencies equivalent to those required of Texas A&M University-Corpus Christi undergraduate biology majors (see the biology section of the undergraduate catalog). Therefore, a student who lacks adequate academic preparation in a particular subject area, but who is otherwise well-qualified to enter the graduate program, may be required to complete appropriate undergraduate course work in addition to that specified for the graduate degree. Such courses (4000-sequence or lower) are regarded as foundation or leveling work and do not count as credit towards the total required for completion of the graduate degree.
Advising and the Graduate Advisory Committee

After being accepted into the MARB program and enrolling, the most important first step is forming the graduate advisory committee (GAC). Students should form a graduate advisory committee with the approval of their advisor by the end of their second long semester in the MARB program to help guide them through their degree program. Students are strongly encouraged to meet with their committee at a minimum of once per year to seek continual guidance on their research program.

Composition and size of the committee should reflect the scope of the intended graduate studies and should be developed with substantial input from the student's advisor(s). The advisor(s) will serve as chair(s) of the committee. The majority of the committee members must be members of the Marine Biology Participating IDP Graduate Faculty (PGF) from TAMUS schools of TAMU-CC, TAMU, and TAMUG. Recognized scholars who are not a member of the TAMU-CC graduate faculty may serve on a student's committee by submitting a letter of request from the advisor, through the TAMU-CC Marine Biology Program Coordinator, with the individual's resume attached as well as a completed "Form 2" from CGS (Graduate Faculty Status Application). The scholar may serve upon approval of the TAMU-CC CGS. Only one CGS appointed scholar may be counted toward the minimum committee member composition. For Doctoral (Ph.D.) in Marine Biology degrees, the committee shall consist of now fewer than four members, three of which must belong to the MARB IDP Graduate Faculty, including the advisor(s). At least one of the members is encouraged to be from another IDP campus. The Chair (and/or Co-Chair) must be a member of the MARB IDP Graduate Faculty.

Upon submitting a degree plan for Ph.D. students, CGS will appoint a Graduate Faculty Representative (GFR) to the committee. The role of this appointee is to serve as an impartial member of the committee to ensure the integrity of University standards as they apply to the Ph.D. process. The GFR attends both the comprehensive/qualifying examination and the final defense/oral examination.

Enrollment Requirements

All students are required to maintain continuous registration until completion of all requirements for graduation unless a specific leave of absence is granted (in writing) by the department. Students funded through scholarships, fellowships and assistantships are required to maintain a minimum of 9 hours/fall and spring semester, and 3 hours/summer. To continue to maintain the proper number of hours after completing all formal coursework on the degree plan, a student may register for MARB 6940 Project Research.
Coursework and Research

Courses and research for the graduate degrees can be taken from Texas A&M-Corpus Christi, TAMU, or TAMU-G with the approval of the student's GAC. Students must demonstrate to the GAC that the selection of classes or research projects produces a coherent course of study focused on the student's particular area of emphasis. Depending on the emphasis area, elective and specialized coursework selections may be chosen from biology, biomedical sciences, chemistry, coastal and marine system science, computer science, environmental science, geographic information science, geology, fisheries and mariculture, mathematics, or other course offerings as stipulated and approved by the GAC. Students accepted to the Marine Biology PhD program without an MS degree in an appropriate discipline are required to take more semester hours of credit than students accepted with such a degree.

1. Specialized and Elective Coursework
   The program specifies the minimum number of semester credit hours (SCH) that must be earned from regular, graded (non-research, non-variable credit) coursework: for students with only a bachelor's degree, 41 of 96 total hours; and for PhD students with an appropriate master's degree, 19 of 64 total hours. Classes or research projects designated as part of the specialized coursework requirement must receive the approval of a student's GAC.

2. Research Coursework
   Three courses form the required research component of the degree for PhD students: MARB 6392 - Dissertation Proposal, MARB 6393 - Dissertation Research, MARB 6394 - Dissertation Submission. Once PhD students have passed their qualifying exam and become degree candidates, they should take MARB 6940 - Dissertation Project Research to fulfill course requirements; this course is graded credit/non-credit and may be repeated. Students must enroll in MARB 6394 - Dissertation Submission during their last semester when their dissertations will be completed.

1. PhD Students Admitted with Only a Bachelor’s Degree

Students accepted to the Marine Biology PhD Program with only a bachelor’s degree (i.e., without an MS degree in an appropriate discipline) must complete a minimum of 96 semester hours of coursework and research.

- MARB 6102 - Graduate Research Seminar 1 sem. hrs.
- MARB 6392 - Dissertation Proposal 3 sem. hrs.
- MARB 6393 - Dissertation Research 3 sem. hrs.
• MARB 6394 - Dissertation Submission 3 sem. hrs.
• MARB 6940 - Dissertation Project Research 1-9 sem. hrs. (taken to a total of 46 sem. hrs.)
• Specialized, elective, and topical coursework 37 sem. hrs.

**Select at least one of the following:**
• CMSS 6303 - Natural Systems Analysis 3 sem. hrs. AND / OR
• CMSS 6323 - Experimental Design 3 sem. hrs.

Total: 96

2. PhD Students Admitted with a Master’s Degree

Students accepted to the Marine Biology PhD Program with an MS degree in an appropriate discipline must complete a minimum of 64 hours of coursework and research.

• MARB 6102 - Graduate Research Seminar 1 sem. hrs.
• MARB 6392 - Dissertation Proposal 3 sem. hrs.
• MARB 6393 - Dissertation Research 3 sem. hrs.
• MARB 6394 - Dissertation Submission 3 sem. hrs.
• MARB 6940 - Dissertation Project Research 1-9 sem. hrs. (taken to a total of 36 sem. hrs.)
• Specialized, elective, and topical coursework 15 sem. hrs.

**Select at least one of the following:**
• CMSS 6303 - Natural Systems Analysis 3 sem. hrs. AND / OR
• CMSS 6323 - Experimental Design 3 sem. hrs.

Total: 64

**Doctoral Candidacy and the Comprehensive/Qualifying Examination**

To be admitted to candidacy for the MARB Ph.D. degree a student must have a cumulative GPA and a degree plan GPA of at least 3.0, satisfy the residence requirement (completion of 9 credit hours in two consecutive long semesters), and pass the qualifying examination. Formal Comprehensive/Qualifying examinations (often referred to as "preliminary exams") for the Ph.D. may be given by the student's GAC if the student is within 6 hours of completing formal degree plan coursework (i.e., except MARB 6940 - Dissertation Project Research) but **must** be given before the end of the semester following completion of regular coursework on the degree plan, no later than the end of the 4th long semester in the program. An approved dissertation proposal must be on file prior to taking the qualifying exam. Students and/or committee chair should consult with Ronnie Emanuel, Ronnie.emanuel@tamucc.edu, to ensure that the proposal has been
A student must be admitted to degree candidacy at least 1 year before the date of the final dissertation defense/oral examination. CGS will not authorize a final dissertation defense/oral examination for any doctoral student who has not been admitted to candidacy.

Qualifying exams will cover all areas within the scope of the student's doctoral program, and will involve written exams from each GAC member, followed by an oral exam administered by the committee as a whole. Committee members may participate remotely if necessary, but must be present for the entire oral exam. Typically, a student will have (at most) a single day to complete the written questions from each committee member.

Each committee member will provide an evaluation of the student's performance on the written exam. In order to proceed to the oral exam, a student must pass the written exam, as determined by the committee. Individuals unable to pass the written examination(s) may be permitted to retake the exam when sufficient time has passed to allow students to address inadequacies emerging from the first examination.

Upon completion of the oral exam, the GAC members will then determine one final outcome ("Pass" or "Fail"). The GFR does not vote on student performance, but may ask questions and is responsible for ensuring fairness of the exam. Two or more dissenting votes in the qualifying exam constitute "Fail". The graduate advisory committee chairman will report the results of the examination in a form to the CGS signed by all committee members. The form (Form "B") is available at: http://gradschool.tamucc.edu/forms.html under "Doctoral Program". A copy of the form should also be provided to Ronnie Emanuel.

If the student successfully passes the qualifying examination, they will be advanced to candidacy. All requirements for the degree must be completed within 7 years. If a student fails the qualifying exams, he/she may be dropped from the program OR the committee may recommend that the student complete a master's degree and be administratively withdrawn from the doctoral program. However, there is no guarantee of acceptance to master's program.

Format and Style of Dissertation

The dissertation must follow format requirements established in the Marine Biology Graduate Handbook and must be approved and signed by the members of the student's GAC, and the Dean of Graduate Studies. The dissertation must be prepared in a standard format and style. Guidance can be found in the Marine Biology Student Handbook (www.marinebiology.tamucc.edu). For more information, consult the College of Graduate Studies Doctoral Handbook.
Once the dissertation is completed and approved by the GAC, the results of the research must be presented orally and publicly. The final defense/oral examination usually takes place immediately following the seminar (see below). Graduate students are expected to present their research at a scientific meeting (other than their graduate seminar) prior to graduation.

Upon approval by a student's GAC, a copy of the dissertation will be sent to the Dean of Graduate Studies. At the time of successful completion of the final defense/oral examination, committee members will sign the dissertation and return it to the Dean of Graduate Studies for final approval and signature. See also "Requirements for Doctoral Programs" in the general section of this catalog.

Final Oral Defense Examination

Each student must pass a final oral defense examination during the last semester before graduation. The student's GAC administers this examination which covers topics related to: (1) all graduate coursework undertaken for the Marine Biology program, (2) the student's specific research area, and (3) broad concepts of general and marine biology including familiarity with the literature and appropriate professional societies. The student is responsible for scheduling the defense with the faculty involved. Doctoral students must enroll in the course MARB 6394 - Dissertation Submission during the semester in which they are planning to defend their dissertation and/or graduate. A student who fails the defense may repeat it once, but only after an interval of four months or more, and will be required to re-enroll in MARB 6394 - Dissertation Submission. If a student fails the second defense, he or she will be terminated from the program.

For Additional Information

Website: www.marinebiology.tamucc.edu

Campus address: Engineering Building, Room 319; Phone (361) 825-2754

       Marine Biology Program, Unit 5800
       College of Science and Engineering
       Texas A&M University-Corpus Christi
       6300 Ocean Drive, Corpus Christi, Texas 78412-5800

Department of Mathematics and Statistics

Master of Science
Mathematics, MS

Program Description

Program Mission

The mission of the Graduate Mathematics program is to increase understanding and the ability to apply mathematics through in-depth study, novel applications, and research. The areas of emphasis are mathematics education and applications of mathematics and statistics. The faculty engages in research and scholarly activities at the forefront of their specialties, with established and developing connections with the mathematics and education communities at large, and leads students through program research activities and projects or theses. The program prepares students for careers in education, science, and industry and serves the community by providing expertise to local schools, coastal industry, and research centers.

Program Tracks

Students pursuing the Master of Science degree with a major in Mathematics will choose between an Applied and Computational Mathematics and a Curriculum Content option. The Applied and Computational Mathematics option will especially benefit individuals employed in scientific, technical, or education fields who seek advancement or additional training to enhance their knowledge and skills. The Curriculum Content option specifically addresses the needs of in-service teachers wishing to enhance their knowledge and skills in learning, teaching and understanding mathematics. In each option, a capstone product allows students to focus their coursework on broad applications. The Applied and Computational Mathematics option requires a thesis; the Curriculum Content option allows for a thesis or project. The thesis option starts with a broad foundation, and then encourages a specialized study culminating in a thesis based upon original research, supported by the mathematical literature. The thesis requirement for the master's degree will allow a person to pursue advanced graduate study, or to obtain employment in most areas that require a detailed knowledge of a specific aspect of mathematics. The project allows a student to demonstrate particular ability with some part of the Curriculum Content. The project will be an original work supported by a mathematical literature review.

Student Learning Outcomes

Students will:
• Demonstrate a command of principles of general mathematics at the graduate level.
• Recognize mathematics outside the realm of the classroom, and apply graduate level mathematical content as a matter of professional practice.
• Communicate mathematics effectively at the graduate level, in oral and written form, with appropriate use of technology.

Admission Requirements

In addition to meeting all University requirements for admission to graduate study in degree-seeking status, applicants for the MS degree in mathematics must also submit an essay to the University's Office of Graduate Studies: The essay, 300-500 words in length, should discuss the applicant's educational and professional goals, pertinent work and undergraduate experience, and other factors relating to the chosen option for graduate study. If the applicant has a GPA below 3.0 in undergraduate mathematics courses, the essay should specifically address any factors that might have hampered the applicant's undergraduate study. One or more letters of recommendation specifically addressing an applicant's ability to do graduate level study of mathematics may be submitted to strengthen an application. The letters should be submitted directly to the Department at the time of application.

Persons seeking admission to the MS in Mathematics should first contact the program faculty and identify a faculty member willing to serve as the graduate advisor. Applicants will not be admitted to the program without a graduate advisor.

Applicants are expected to enter the program with adequate academic preparation for their chosen option, as detailed in the degree requirements below. If the graduate committee determines that an applicant's preparation is deficient, the individual will be required to complete course work to remedy these deficiencies. Such course work will be regarded as leveling work, and will not count as credit towards the total required for completion of the MS degree in mathematics.

1. Applicants for the Applied and Computational Mathematics option should have the equivalent of an undergraduate mathematics major, or an undergraduate mathematics minor and a minor in science. Specific leveling course work is MATH 3315, Differential Equations; MATH 3311, Linear Algebra; MATH 3470, Calculus III; and MATH 4301, Introduction to Analysis. Students with no computer programming experience may find themselves at a disadvantage in certain courses without an introductory programming course.

2. Applicants for the Curriculum Content option should have an interest in the teaching and learning of mathematics. Applicants seeking initial certification
should consult the SMTE Coordinator or College of Education to make plans for certification. Applicants planning to teach at the post-secondary level should work closely with an advisor to plan electives and additional, appropriate course work. Specific leveling course work within Mathematics is MATH 2305, Discrete Mathematics; MATH 2413, Calculus I; and MATH 3311, Linear Algebra.

Degree Requirements

The course of study for the MS program in mathematics consists of the components listed below. Graduation requirements are slightly different for the Applied and Computational Mathematics and Curriculum Content options.

Applied and Computational Mathematics Option

<table>
<thead>
<tr>
<th>Sem.</th>
<th>Hrs.</th>
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1. Core courses 12
2. Electives from mathematics or closely related field 15
3. MATH 5993 - Literature Review and Research, MATH 5994 - Proposal Research, and MATH 5995 - Thesis 9

Total 36

1. The Core courses

- MATH 5333 - Numerical Linear Algebra 3 sem. hrs.
- MATH 5336 - Advanced Differential Equations 3 sem. hrs.
- MATH 5339 - Numerical Analysis 3 sem. hrs.
- MATH 5351 - Real Analysis 3 sem. hrs.

2. Elective courses may be chosen from the following list.

- MATH 5344 - Spatial Statistics 3 sem. hrs.
- MATH 5360 - Combinatorics and Graph Theory 3 sem. hrs.
- MATH 5375 - Applied Analysis 3 sem. hrs.
• MATH 5342 - Linear Statistical Models 3 sem. hrs.
• MATH 5348 - Optimization 3 sem. hrs.

Note:

With prior approval from the Department Chair, a student may select offerings of MATH 5390 or MATH 5396 or graduate courses from outside the Department as electives.


Each student in the Applied and Computational Mathematics option is encouraged to participate in the departmental seminar and may simultaneously take MATH 5994 for one to three semesters at a rate of 1 to 3 credit hours per semester. A total of three semester hours credit for MATH 5994 is required. The final time MATH 5994 is taken, the student will prepare a thesis proposal. When a student is within 18 semester hours of graduation, he or she may form a graduate committee and defend the proposal for the thesis. (Guidelines for writing the thesis, including the required format and style, are available at the department website.) Immediately upon approval of the thesis proposal, the student registers for MATH 5995, Thesis. The student continues to register for MATH 5995 each successive semester (Fall or Spring required, Summer by choice) until the thesis is completed. A student who does not complete a thesis in the semester for which he or she has registered will receive a grade of IP (In Progress). Not completing a thesis in four long semesters or failure to register for an incomplete thesis in the next long semester will terminate the thesis and will require that the entire thesis process be repeated starting with the preparation of a new thesis proposal.

Each student in the Applied and Computational Mathematics option must defend his or her thesis, ordinarily during his or her final semester. The student’s graduate committee will administer the defense. For more information, see the Department’s Thesis Guidelines.

Curriculum Content Option

<table>
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<tr>
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<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>1. Core Courses</td>
<td>15</td>
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<tr>
<td>2. Electives</td>
<td>12</td>
</tr>
<tr>
<td>3. MATH 5993 - Literature Review and Research and MATH 5994 - Proposal Research</td>
<td>6</td>
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<tr>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>And either MATH 5995 - Thesis, or MATH 5997 - Project</td>
</tr>
</tbody>
</table>
1. The Core Courses

- MATH 5325 - Structure of Number Concepts 3 sem. hrs.
- MATH 5326 - Structure of Patterns and Algebra 3 sem. hrs.
- MATH 5327 - Structure of Geometry and Measurement 3 sem. hrs.
- MATH 5328 - Structure of Probability and Statistics 3 sem. hrs.
- MATH 5329 - Structure of Modeling with Rates of Change 3 sem. hrs.

2. Any of the following courses may be used as an elective.

With prior approval of the Department Chair, any course with significant and appropriate mathematical content may be taken as an elective.

- MATH 5321 - Problem Solving and Mathematical Reasoning for Teachers 3 sem. hrs.
- MATH 5322 - Mathematics Assessment 3 sem. hrs.
- MATH 5323 - Mathematics instruction and Mentoring 3 sem. hrs.
- MATH 5324 - Principles of Reforming Mathematics Instruction 3 sem. hrs.
- MATH 5331 - Evolution of Mathematical Systems 3 sem. hrs.
- MATH 5332 - Integrating Technology in Mathematics Education 3 sem. hrs.

3. Capstone Course

All students in the Curriculum Content option will take MATH 5993 - Literature Review and Research as an introduction to relevant literature, research methods, followed by MATH 5994 Proposal Research to prepare and present a proposal. These courses serves as preparation for either a thesis or project.

1. Thesis or Project. A thesis requires a student to articulate a problem in mathematics education related to significant mathematical content, propose a solution, and collect and analyze data in creating a solution of the problem. A project requires a student to demonstrate his or her ability to undertake a significant curriculum development, perform the appropriate research needed to implement the development, and communicate orally and in writing their understanding of that process.

2. Students writing a thesis or project will prepare a proposal in MATH 5994 based on work done in MATH 5993. When a student is within 18 semester hours of graduation, he or she may form a graduate committee and defend the proposal.
Guidelines for writing the thesis or project, including the required format and style, are available on the Mathematics Department website.) Immediately upon approval of the proposal the student registers for MATH 5995 - Thesis or MATH 5997 - Project, as appropriate. The student continues to register for MATH 5995 - Thesis or MATH 5997 - Project each successive semester (Fall or Spring required, Summer by choice) until the thesis or project is completed. A student who does not complete a thesis or project in the semester for which he or she has registered will receive a grade of IP (In Progress). Not completing a thesis or project in four long semesters, earning a grade of U or failure to register for MATH 5995 - Thesis or MATH 5997 - Project in the next semester after receiving a grade of IP will terminate the thesis or project and will require that the entire process be repeated starting with the preparation of a new proposal.

Each student in the Curriculum Content Option must defend his or her thesis or project, ordinarily during his or her final semester. The student's graduate committee will administer the defense.

For Additional Information

**Website:**  http://math.tamucc.edu

**Campus Address:**  Center for Instruction, Room 301; Phone (361) 825-3754

**Mailing Address:**  Department of Mathematics and Statistics, Unit 5825
College of Science and Engineering
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5825

**Department of Physical and Environmental Sciences**

**Master of Science**

**Chemistry, MS**

**Program Description**

The mission of the Master of Science program in Chemistry is to prepare students for technical careers, careers in chemical education at the secondary level or who aspire to enroll in a doctoral program. This program is designed to provide students with a quality experience that will help them grow as scholars and as professionals.
Student Learning Outcomes

Students will:

- Possess a broad understanding of chemical concepts
- Possess enhanced knowledge of a specific area of chemistry, including relevant scientific literature, related to their thesis or professional paper
- Have the ability to accurately describe and assess chemistry related research both orally and in writing

Admission Requirements

Applicants must comply with university procedures for admission to the degree program. Incomplete applications will not be considered. Persons seeking admission to the MS Program in Chemistry should first contact the program faculty and identify a faculty member willing to serve as the graduate advisor. Applicants will not be admitted to the program without a graduate advisor. Persons seeking admission to the MS Program in Chemistry should apply through the College of Graduate Studies. In addition to the documents required by that office, applicants must submit GRE general test scores, an essay of at least 300 words describing their educational and career interests, goals, and challenges, and three letters of evaluation from persons knowledgeable about their potential for success in graduate studies. Applicants may optionally submit other relevant materials, e.g., copies of published works or reports of past scientific research. All materials submitted will be considered. Applicants who already hold an earned graduate degree from a regionally accredited university need not submit GRE scores. The applicant will be notified by letter of acceptance or rejection.

Students accepted to the degree program in chemistry are expected to enter the program with undergraduate degrees in chemistry. Students accepted to the degree program with insufficient background in chemistry will be required to take undergraduate or graduate prerequisite courses prescribed by their advisory committees. These courses may or may not apply towards the total required for the master's degree.

Teaching assistant positions are available to graduate students admitted as degree-seeking students. The completed Teaching Assistant Application and letters of recommendation should be submitted to the address indicated on the application. The deadline for submitting applications is February 1 for the following academic year.

Degree Requirements
Each student accepted to the Master of Science in Chemistry degree program must complete a minimum of 36 semester hours for the non-thesis "Professional" track and a minimum of 30 semester hours for the thesis track.

Students will choose between thesis and professional (non-thesis) options. Students following either option will be required to take a core of chemistry/chemistry-related courses to provide a broad background, and to select elective courses in consultation with their advisory committee to provide in-depth education in a particular area of emphasis related to chemistry. A student will define an emphasis area for his or her graduate studies with assistance from the graduate advisor and advisory committee. The emphasis areas include the traditional areas of chemistry such as analytical chemistry, biochemistry, environmental chemistry, inorganic chemistry, materials chemistry, physical chemistry or theoretical chemistry; or the student may choose an MS degree in chemistry related to one of the other graduate programs at TAMUCC such as the Coastal and Marine System Science Program.

A graduate student who has met with his or her advisory committee, formulated a degree plan approved by the graduate committee, and has the plan on file is considered a degree candidate. A student must have advanced to degree candidacy by the end of the second full semester of graduate study following admission to the program. A student's advisory committee must approve any subsequent changes to the degree plan. A change from the thesis to the professional (non-thesis) option or vice versa requires that the student file a new degree plan as approved by the advisory committee.

All Chemistry MS students must successfully complete at least six semester hours per academic year to remain in the program.

All Chemistry MS students must enroll in CHEM 5303 Research in the Chemical Sciences during their first semester.

All Chemistry MS students must pass a final oral exam, to be administered by their advisory committee, during their last semester before graduation.

Thesis Option (30 sem. hrs.)

The thesis option requires a thesis based upon original research, supported by the scientific literature, and analyzed statistically, when appropriate. The thesis master's degree will allow a person to pursue advanced graduate study, or to obtain employment in most areas requiring a detailed knowledge of a specific aspect of chemistry.

Requirements: All students are required to complete the following courses (15 sem. hrs.).
• CHEM 5303 - Research in the Chemical Sciences 3 sem. hrs. (Must be taken in the first semester by all Chemistry MS students.)
• CHEM 5317 - Advanced Instrumental Analysis 3 sem. hrs.
• CHEM 5392 - Thesis Proposal 3 sem. hrs.
• CHEM 5393 - Thesis Research 3 sem. hrs.
• CHEM 5394 - Thesis Submission 3 sem. hrs.

Electives: Student will complete 15 hours from the following elective courses:
• CHEM 5321 - Molecular Ecology 3 sem. hrs.
• CHEM 5322 - Supramolecular Chemistry 3 sem. hrs.
• CHEM 5341 - Advanced Organic Chemistry 3 sem. hrs.
• CHEM 5352 - Computational Chemistry 3 sem. hrs.
• CHEM 5361 - Organic Geochemistry 3 sem. hrs.
• CHEM 5362 - Chemical Oceanography 3 sem. hrs.
• CHEM 5369 - Advanced Molecular Spectroscopy 3 sem. hrs.
• CHEM 5375 - Stable Isotope Biogeochemistry 3 sem. hrs.
• CHEM 5940 - Project Research 1-9 sem. hrs. With approval from the program coordinator, up to 6 sem. hrs. of Project Research may be counted toward the requirements for the Thesis Option.
• CHEM 6417 - Advanced Environmental Chemistry 4 sem. hrs.
• CHEM 6421 - Aquatic Chemistry 4 sem. hrs.
• CHEM 6490 - Advanced Topics 1-4 sem. hrs.

Professional (Non-Thesis) Option (36 sem. hrs.)

The professional option allows students to take required and elective graduate courses to further explore sub-disciplines of chemistry and identify a project that will help them advance their career or better compete for leadership opportunities. The project would be appropriate (for example) to partner with local chemical industries to help develop solutions to applied problems arising during their operations, or for local educators to further their chemistry experience. Non-thesis students must complete a professional research project with a written final report and seminar.

Requirements: All students are required to complete the following courses (12 sem. hrs.).
• CHEM 5303 - Research in the Chemical Sciences 3 sem. hrs. (Must be taken in the first semester by all Chemistry MS students.)
• CHEM 5317 - Advanced Instrumental Analysis 3 sem. hrs.
• CHEM 5369 - Advanced Molecular Spectroscopy 3 sem. hrs.
• CHEM 5397 - Directed Research 3 sem. hrs.
Electives: Students will complete 24 hours of elective courses, which may include:

- CHEM 5940 - Project Research 1-9 sem. hrs. With approval from the program coordinator, up to 6 sem. hrs. of Project Research may be counted toward the requirements for the Professional (Non-Thesis) Option.
- CHEM 5321 - Molecular Ecology 3 sem. hrs.
- CHEM 5322 - Supramolecular Chemistry 3 sem. hrs.
- CHEM 5341 - Advanced Organic Chemistry 3 sem. hrs.
- CHEM 5352 - Computational Chemistry 3 sem. hrs.
- CHEM 5361 - Organic Geochemistry 3 sem. hrs.
- CHEM 5362 - Chemical Oceanography 3 sem. hrs.
- CHEM 5375 - Stable Isotope Biogeochemistry 3 sem. hrs.
- CHEM 6417 - Advanced Environmental Chemistry 4 sem. hrs.
- CHEM 6421 - Aquatic Chemistry 4 sem. hrs.
- CHEM 6490 - Advanced Topics 1-4 sem. hrs.

Information About the Thesis or Professional Paper

**Thesis and Professional Paper Format and Style**

The thesis or professional paper must be prepared in a standard format and style dictated by the advisory committee. The format and style requirements will specify paper size, paper quality, margins, pagination, etc.

Upon approval by a student's advisory committee, a copy of the thesis will be sent to the Office of the Dean of the College of Science and Engineering. At the time of successful completion of the oral exam, committee members will sign the thesis and return it to the Dean of the College of Science and Engineering for final approval and signature. All submitted copies of the thesis must be bound in prescribed buckram. The student must pay the fee for this service.

**Grades for Thesis or Directed Research Courses**

The following courses are eligible for awarding a permanent mark of "In Progress" (IP) if the work is not completed by the end of the semester in which a student has enrolled in the course: CHEM 5392 - Thesis Proposal, CHEM 5393 - Thesis Research, CHEM 5394 - Thesis Submission and CHEM 5397 - Directed Research. University rules stipulate that the student must register for the same course in the subsequent semester, paying the appropriate tuition and fees, to receive a letter grade for the course.
For thesis students, the student's graduate committee must sign the completed Thesis Proposal before the student is awarded a letter grade for CHEM 5392 - Thesis Proposal. If the proposal is not signed and on file in the College of Science and Engineering (Dean's Office) by the end of the semester, a permanent mark of IP will be awarded. The student will receive a permanent mark of IP for each semester of CHEM 5393 - Thesis Research until the student has presented a rough draft of the thesis. At that time the student's graduate advisor will award a letter grade which reflects the overall quality of the thesis research and the draft. Finally, the student will receive a permanent mark of IP for each semester of CHEM 5394 - Thesis Submission until the student has defended the thesis and the graduate committee has approved and signed the final thesis manuscript. At that time the student's graduate advisor will award a letter grade which reflects the overall quality of the thesis defense and the manuscript itself. Students who receive marks of IP must continuously enroll for CHEM 5392 - Thesis Proposal, CHEM 5393 - Thesis Research or CHEM 5394 - Thesis Submission until they earn a letter grade.

For non-thesis students, the student must have successfully defended the professional project, the student's graduate committee must have accepted the professional paper, and a final copy must be on file in the College of Science and Engineering (Dean's Office) by the end of the semester before the student is awarded a letter grade for CHEM 5397 - Directed Research. The letter grade will reflect the overall quality of the professional project research and the final professional paper. Otherwise the student will receive a permanent mark of IP and must sign up again for CHEM 5397 - Directed Research in a subsequent semester to receive a letter grade for this work.

**Final Oral Exam**

Each student must pass a final oral exam during the last semester before graduation, to be administered by the student's advisory committee. The oral exam will cover topics related to (1) all graduate coursework undertaken for the chemistry program, (2) a student's emphasis area (including the thesis or directed research project), and (3) broad concepts of chemistry, including a familiarity with the literature and appropriate professional societies. The student is responsible for scheduling the exam with the faculty involved. A student who fails the final oral exam may repeat it once, but only after an interval of four months or more. If a student fails the second oral examination, he or she will be terminated from the program.

**Contact Information**

**Website:**  
http://chem.tamucc.edu/master.html
Graduate Coursework

General prerequisite for 5000- and 6000-level courses: graduate standing. Senior undergraduates in their last semester or summer session of undergraduate work may take graduate-level courses provided that they have a cumulative grade point average of 3.0 or better, and that written approval is obtained from the Dean of the college in which the work is offered. 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.

Graduate courses can be found in the Course Descriptions section of the catalog.

Coastal and Marine System Science, MS

Program Description

Coastal and Marine System Science studies the interactions within the coastal and marine environment which includes most of the critical physical and biological systems which support life on Earth. The mission of the Coastal and Marine System Science (CMSS) program is to support interdisciplinary research and scholarship on the biotic and abiotic components of this zone, including quantitative investigation of socio-economic and political processes. The program addresses this mission by integrating the tools of Earth System Science: biogeochemistry, geographic information science, ecosystem dynamics, and quantitative modeling.

With the increasing efficiency of real-time data collection, transfer, and processing, aided by autonomous observation systems such as satellite sensors, oceanic buoys, and remotely controlled or autonomous submersibles, Coastal and Marine System Science is
at the forefront of extracting meaningful scientific results from large data sets in near real time. Graduates of the CMSS program will demonstrate proficiency in understanding and applying the concepts and principles of all of the natural sciences as well as a working competence in mathematical modeling and geospatial analysis.

All students share a core of five interdisciplinary courses that cover the foundations of mathematical modeling, environmental policy, and case studies in *system science*. Topical specialized coursework (determined by the graduate advisory committee of each individual student) provides grounding in the specific scientific disciplines needed to effectively manage the coastal and marine system. The required thesis involves an independent, detailed research project of importance to the international scientific community. The graduate advisory committee of each student will guide them through the conception, design, construction, and execution of a systems-based inquiry. Students who earn graduate degrees in the sciences are typically employed in teaching or research positions in universities, or in pure research applications at specialized institutions or governmental agencies.

**Student Learning Outcomes**

As part of their progression through the Coastal and Marine System Science program, the students will:

- acquire the skills required for system science studies applied to coastal and marine topics such that they are prepared to conduct CMSS original research;
- perform original and hypothesis-driven quantitative analyses that will lead to comprehensive verifiable models of natural systems;
- emphasize mathematical and/or analytical skills to generate new data and critically evaluate models that will aid in our understanding of dynamic natural systems, become a resource capable of answering environmental "what if" questions by providing comprehensive interpretation;
- develop the skills necessary to present and publish their work at national and international venues;
- develop the skills necessary to teach effectively a college level class in the area of Sciences and Technology; and
- develop a skill set and research record such that they can secure employment in universities, federal agencies, private companies or non-governmental organizations where they can apply the skills and knowledge acquired during the program.

**Admission Requirements**
Persons seeking admission to the CMSS Program should apply through the College of Graduate Studies. In addition to the documents required by that office, applicants must submit GRE general test scores, an essay of no more than 1,000 words describing their educational background, career interests, goals and challenges, a curriculum vitae, and three letters of evaluation from persons knowledgeable about their potential for success in graduate studies. Persons seeking admission to the MS Program in CMSS should first contact the program faculty and identify a faculty member willing to serve as the graduate advisor. Applicants will not be admitted to the program without a graduate advisor. Applicants may optionally submit other relevant materials, e.g. copies of published works or reports of past scientific research. All materials submitted will be considered. A campus visit with personal interviews involving prospective faculty mentors is highly recommended. Completed applications should be received by the College of Graduate Studies by the specified priority deadlines:

- Fall Semester - February 1
- Spring Semester - June 1
- Summer Semester - January 1

Incomplete applications are not considered. The applicant will be notified of acceptance or rejection by letter.

Students accepted into the degree program must demonstrate proficiency in the natural sciences, mathematical modeling, and geospatial technology. This proficiency can be demonstrated by the successful completion of undergraduate classes in these topics, or by presentation of satisfactory evidence to the CMSS Program Coordinator. Students who are unable to demonstrate proficiency in the natural sciences, mathematics, or geospatial technology may be required to take undergraduate or graduate courses. These courses will not apply towards the total required for the MS degree.

Teaching assistantships, graduate research assistantships, and fellowship positions are available to admitted degree-seeking students who maintain full-time graduate student status (9 credit hours per semester). For additional information, please contact the CMSS Program Coordinator, College of Science and Engineering, Texas A&M University-Corpus Christi, 6300 Ocean Dr., Corpus Christi, Texas 78412-5850.

**Degree Requirements (36 semester credit hours)**

Each student accepted to the MS in the Coastal and Marine System Science degree program must complete a minimum of 36 hours beyond the bachelor's degree (at the 5000- or 6000-level). A student's advisory committee must approve the program degree plan. All students must successfully complete at least nine semester credit hours per long
semester to remain in the program. All students must pass a final thesis defense, to be administered by their advisory committee, during their last semester before graduation.

The program normally requires a minimum of 18 credit hours of regular graded coursework. Justification for exception to this rule should be prepared by the student and advisor(s), endorsed by the advisory committee, and attached to the degree plan when submitted for the department head's signature.

Core: Required Courses (12 sem. hrs.)

- CMSS 6102 - Seminar in Coastal and Marine System Science 1 sem. hrs.
- ESCI 5203 - Professional Skills for Scientists 2 sem. hrs.

Core: Course Choices (12 sem. hrs.)

Choose four courses (12 sem. hrs.) from the list below:

- CMSS 6303 - Natural Systems Analysis 3 sem. hrs.
- CMSS 6305 - Natural Systems Modeling 3 sem. hrs.
- CMSS 6307 - Coastal and Marine Systems 3 sem. hrs.
- CMSS 6330 - Geospatial Analysis 3 sem. hrs.
- CMSS 6370 - Coastal Management and Ocean Law 3 sem. hrs.

Elective, Specialized and Topical Courses (12 sem. hrs.)

Elective coursework (12 sem. hrs.) supporting student's individual research goals is chosen from among approved biology, chemistry, coastal and marine system science, computer science, environmental science, geographic information science, geology, marine biology, or other course offerings, in consultation with student's advisory committee.

**Students must choose two courses (6 sem. hrs.) from this list of seven CMSS courses with substantial marine content:**

- CMSS 6307 - Coastal and Marine Systems 3 sem. hrs. (If not already taken as part of the Core: Course Choices.)
- CMSS 6308 - Coastal Geoenvironments and Change 3 sem. hrs.
- CMSS 6327 - Physical Oceanography 3 sem. hrs.
- CMSS 6334 - Geological Oceanography 3 sem. hrs.
- CMSS 6357 - Global Geochemical Cycles and Change 3 sem. hrs.
• CMSS 6359 - Marine Ecosystem Dynamics 3 sem. hrs.
• CMSS 6362 - Global Change and Its Impact on Aquatic Ecosystems 3 sem. hrs.

Topical coursework should be approved by the graduate advisory committee, and is offered under the heading of:
• CMSS 6590 - Advanced Topics 1-5 sem. hrs.

Students can also enroll in a Directed Independent Study, supervised by their advisor or other faculty members, at any stage of the program progression:
• CMSS 5596 - Directed Independent Study 1-5 sem. hrs.

The remainder of classes or research projects designated as part of the elective coursework requirement must receive the approval of a student's graduate advisory committee. Students must demonstrate to the committee that the selection of classes or research projects produces a coherent course of study focused on the student's particular area of emphasis. Depending on the emphasis area, selections may include coastal and marine system science, marine biology, the natural sciences, computer science, geographic information science, mathematics, political science, public administration, business law, or other areas as stipulated by the graduate advisory committee.

Thesis Information

Thesis Course Series


Thesis Format, Style and Submission

The thesis must be prepared in a standard format and style dictated by the advisory committee. Guidance can be found in the CMSS Student Handbook. For more information, contact the College of Graduate Studies.

Upon approval by a student's graduate advisory committee, a copy of the thesis will be sent to the Dean of the College of Science & Engineering. At the time of successful completion of the thesis exam, committee members will sign the dissertation and return it to the Dean of the College of Science & Engineering for final approval and signature.
Final Thesis Defense

Each student must pass a final thesis defense examination during the last semester before graduation, to be administered by the student's graduate advisory committee. The exam will cover topics related to (1) all graduate coursework undertaken for the CMSS program, (2) a student's thesis research area, and (3) broad concepts of system science, including familiarity with the literature and appropriate professional societies. The student is responsible for scheduling the defense with the faculty involved. A student who fails the defense may repeat it once, but only after an interval of four months or more. If a student fails the second defense, he or she will be terminated from the program. Students must enroll in the course, CMSS 5394 Thesis III: Thesis Submission during the semester in which they are planning to defend the thesis and/or graduate.

Environmental Science, MS

Program Description

The mission of the Master of Science program in Environmental Science is to provide a rich and rewarding setting in which students and faculty can develop and communicate innovative and practical solutions to present and future environmental challenges, with a focus on urban and coastal issues.

Student Learning Outcomes

Students will:

- Possess a broad understanding of environmental science.
- Possess enhanced knowledge of a specific area of environmental science, including relevant scientific literature, related to their thesis or professional paper.
- Have the ability to accurately describe and assess environmental research both orally and in writing.

Students will choose between thesis and professional (non-thesis) options. The professional option is designed for students who desire a greater breadth of understanding of environmental science than the thesis option provides. The curriculum will specially benefit individuals employed in scientific or technical fields who seek advancement or additional training to enhance their knowledge and skills. Professional option students must complete a professional research project with a written final report and seminar. The thesis option requires a thesis based upon original research, supported by the scientific literature, and analyzed statistically, when appropriate. The thesis master's degree will
allow a person to pursue advanced graduate study, or to obtain employment in most areas
requiring a detailed knowledge of a specific aspect of environmental science.

Students following either option will be required to take a core of interdisciplinary
courses to provide a broad background, and to select elective courses in consultation with
their advisory committee to provide in-depth education in a particular area of emphasis
related to environmental science. The elective courses may derive from one science
discipline but they will often be interdisciplinary.

**Admission Requirements**

Applicants must comply with university procedures for admission to the degree program. Incomplete applications will not be considered. Persons seeking admission to the MS Program in Environmental Science should first contact the program faculty and identify a faculty member willing to serve as the graduate advisor. Applicants will not be admitted to the program without a graduate advisor. Application to the program is made through the university Office of Research and Graduate Studies. In addition to the documents required by that office, applicants must submit GRE general test scores, an essay of at least 300 words describing their educational and career interests, goals, and challenges, and three letters of evaluation from persons knowledgeable about their potential for success in graduate studies. Applicants may optionally submit other relevant materials, e.g., copies of published works or reports of past scientific research. All materials submitted will be considered. Applicants who already hold an earned graduate degree from a regionally accredited university need not submit GRE scores. The applicant will be notified by letter of acceptance or rejection.

Students accepted to the degree program in environmental science are expected to enter the program with undergraduate degrees in science or substantial undergraduate or graduate science background. Students accepted to the degree program with insufficient background in science, computer science, mathematics, or communication skills will be required to take undergraduate or graduate prerequisite courses prescribed by their advisory committees. These courses may or may not apply towards the total required for the master's degree.

Teaching assistant positions are available to graduate students admitted as degree-seeking students. The completed Teaching Assistant Application and letters of recommendation should be submitted to the address indicated on the application. The deadline for submitting applications is February 1 for the following academic year.

**Degree Requirements**
Each student accepted to the Master of Science in Environmental Science degree program must complete a minimum of 36 semester hours under either the thesis or professional (non-thesis) options.

A graduate student who has met with his or her advisory committee, formulated a degree plan approved by the graduate committee, and has the plan on file is considered a degree candidate. A student must have advanced to degree candidacy by the end of the second full semester of graduate study following admission to the program. A student's advisory committee must approve any subsequent changes to the degree plan. A change from thesis to professional option or vice versa requires that the student file a new degree plan as approved by the advisory committee.

All students must successfully complete at least six semester hours per academic year to remain in the program. Students should enroll in ESCI 5101 - Environmental Research Seminar as early as possible during their graduate course of study. All students must pass a final oral exam, to be administered by their advisory committee, during their last semester before graduation.

A. Thesis Option (36 sem. hrs.) *

- ESCI 5101 - Environmental Research Seminar 1 sem. hrs.
- ESCI 5203 - Professional Skills for Scientists 2 sem. hrs.
- MATH 6315 - Statistical Methods in Research I 3 sem. hrs.
- Electives in specialty area (to be chosen in consultation with a student’s advisory committee). At least 9 hours must be from BIOL, CHEM, CMSS, ESCI, GEOL, or PHYS. 18 sem. hrs.

Choose One:

- BLAW 5330 - Environmental Law and Policy 3 sem. hrs. OR
- ESCI 5302 - Federal Environmental Laws and Regulations 3 sem. hrs. OR
- ESCI 5360 - Coastal Management and Ocean Law 3 sem. hrs.

Total: 36

B. Professional (Non-Thesis) Option (36 sem. hrs.) *

Professional option students must write a professional paper and present a seminar based on work completed in ESCI 5397 - Directed Research. The paper and seminar will be on
Choose One:

- BLAW 5330 - Environmental Law and Policy 3 sem. hrs. OR
- ESCI 5302 - Federal Environmental Laws and Regulations 3 sem. hrs. OR
- ESCI 5360 - Coastal Management and Ocean Law 3 sem. hrs.

Total: 36

Note:

* Core requirements may be waived if a student can demonstrate equivalent competencies in that area.

C. Emphasis Areas, Tracks, and Designated Electives

A student will define an emphasis area or track for his or her graduate studies with assistance from the graduate advisor and advisory committee. Marine Policy and Human Dimensions is one possible track; another is Coastal and Marine System Science. These are described in further detail below. The emphasis area is a unique word or phrase which best expresses the student’s intended focus of graduate studies within the broad field of environmental science. Suggested emphasis areas (not an exclusive list) include: bioremediation, coastal ecosystems, coastal geomorphology, conservation, contaminants, ecotoxicology, environmental monitoring, environmental regulations, fisheries, geospatial sciences and remote sensing applications, and hydrogeology. Other emphasis areas are possible as approved by a student’s graduate committee. The emphasis area is stated on the degree plan. Students must demonstrate that the selection of electives produces a coherent graduate program focused around the emphasis area. Designated electives must receive the approval of a student's advisory committee. Electives from the natural sciences, computer science, geographic information science, mathematics, political science, public administration, business law, or other areas may be approved.
C-1. Marine Policy and Human Dimensions Track.

Students with an interest in studying the application of environmental science to ocean/coastal policy may choose the Marine Policy and Human Dimensions track. The track provides an understanding of the physical and biological coastal environment and its interaction with human behaviors and policies. This transdisciplinary program is designed to prepare students to work with a wide variety of marine and coastal constituencies to translate sound environmental science to public policy. Suggested electives include:

- ESCI 6340 - Ocean Resources 3 sem. hrs.
- ESCI 5345 - Living with Coastal Hazards 3 sem. hrs.
- ESCI 5360 - Coastal Management and Ocean Law 3 sem. hrs.
- ESCI 5490 - Advanced Topics 1-4 sem. hrs. Biodiversity and Conservation Science
- ESCI 5490 - Advanced Topics 1-4 sem. hrs. GIS Applications in Environmental Science

C-2. Coastal and Marine System Science Track.

This track is appropriate for students who may wish to apply selected Coastal and Marine System Science courses to a MS degree in Environmental Science, as approved by the student’s graduate committee.

D. Thesis and Professional Paper Format and Style

The thesis or professional paper must be prepared in a standard format and style dictated by the advisory committee. The format and style requirements will specify paper size, paper quality, margins, pagination, etc.

Upon approval by a student's advisory committee, a copy of the thesis will be sent to the Office of the Dean of the College of Science and Engineering. At the time of successful completion of the oral exam, committee members will sign the thesis and return it to the Dean of the College of Science and Engineering for final approval and signature. All submitted copies of the thesis must be bound in prescribed buckram. The student must pay the fee for this service.

E. Grades of In Progress (IP) for Thesis or Directed Research

The following courses are eligible for awarding a permanent mark of In Progress (IP) if the work is not completed by the end of the semester in which a student has enrolled in the course: ESCI 5392 - Thesis I: Thesis Proposal, ESCI 5393 - Thesis II: Thesis
Research, ESCI 5394 - Thesis III: Thesis Submission and ESCI 5397 - Directed Research. University rules stipulate that the student must register for the same course in the subsequent semester, paying the appropriate tuition and fees, to receive a letter grade for the course.

For thesis students, the student’s graduate committee must sign the completed Thesis Proposal before the student is awarded a letter grade for ESCI 5392 - Thesis I: Thesis Proposal. If the proposal is not signed and on file in the College of Science and Engineering (Dean’s Office) by the end of the semester, a permanent mark of IP will be awarded. The student will receive a permanent mark of IP for each semester of ESCI 5393 - Thesis II: Thesis Research until the student has presented a rough draft of the thesis. At that time the student’s graduate advisor will award a letter grade which reflects the overall quality of the thesis research and the draft. Finally, the student will receive a permanent mark of IP for each semester of ESCI 5394 - Thesis III: Thesis Submission until the student has defended the thesis and the graduate committee has approved and signed the final thesis manuscript. At that time the student’s graduate advisor will award a letter grade which reflects the overall quality of the thesis defense and the manuscript itself. Thesis students who receive marks of IP must continuously enroll for ESCI 5392 - Thesis I: Thesis Proposal, ESCI 5393 - Thesis II: Thesis Research, or ESCI 5394 - Thesis III: Thesis Submission in order to receive letter grades for these hours. Any student receiving a mark of IP for ESCI 5392 - Thesis I: Thesis Proposal, ESCI 5393 - Thesis II: Thesis Research, or ESCI 5394 - Thesis III: Thesis Submission will have to enroll in more than six hours of ESCI 5392 - Thesis I: Thesis Proposal/ESCI 5393 - Thesis II: Thesis Research/ESCI 5394 - Thesis III: Thesis Submission in total, to earn the requisite hours of thesis credit with an assigned letter grade.

For non-thesis students, the student must have successfully defended the professional project, the student’s graduate committee must have accepted the professional paper, and a final copy must be on file in the College of Science and Engineering (Dean’s Office) by the end of the semester before the student is awarded a letter grade for ESCI 5397 - Directed Research. The letter grade will reflect the overall quality of the professional project research and the final professional paper. Otherwise the student will receive a permanent mark of IP and must sign up again for ESCI 5397 - Directed Research in a subsequent semester to receive a letter grade for this work.

F. Final Oral Exam

Each student must pass a final oral exam during the last semester before graduation, to be administered by the student’s advisory committee. The oral exam will cover topics related to (1) all graduate coursework undertaken for the environmental science program, (2) a student’s emphasis area (including the thesis or directed research project), and (3)
broad concepts of environmental science, including a familiarity with the literature and appropriate professional societies. The student is responsible for scheduling the exam with the faculty involved. A student who fails the final oral exam may repeat it once, but only after an interval of four months or more. If a student fails the second oral examination, he or she will be terminated from the program.

For Additional Information

Website: http://esci.tamucc.edu/master.html

Campus Address: Carlos F. Truan Natural Resource Center Room 1100; Phone (361) 825-2681

Mailing Address: Environmental Science Program, Unit 5850
College of Science and Engineering
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5850

Graduate Coursework

General prerequisite for 5000- and 6000-level courses: graduate standing. Senior undergraduates in their last semester or summer session of undergraduate work may take graduate-level courses provided that they have a cumulative grade point average of 3.0 or better, and that written approval is obtained from the Dean of the college in which the work is offered. 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.

Graduate courses can be found in the Course Descriptions section of the catalog.

Doctor of Philosophy

Coastal and Marine System Science, PhD

Program Description

Coastal and Marine System Science studies the interactions within the coastal and marine environment which includes most of the critical physical and biological systems which support life on Earth. The mission of the Coastal and Marine System Science (CMSS)
program is to support interdisciplinary research and scholarship on the biotic and abiotic components of this zone, including quantitative investigation of socio-economic and political processes. The program addresses this mission by integrating the tools of Earth System Science: biogeochemistry, geographic information science, ecosystem dynamics, and quantitative modeling.

With the increasing efficiency of real-time data collection, transfer, and processing, aided by autonomous observation systems such as satellite sensors, oceanic buoys, and remotely controlled or autonomous submersibles, Coastal and Marine System Science is at the forefront of extracting meaningful scientific results from large data sets in near real time. Graduates of the CMSS program will demonstrate proficiency in understanding and applying the concepts and principles of all of the natural sciences as well as a working competence in mathematical modeling and geospatial analysis.

All students share a core of five interdisciplinary courses that cover the foundations of mathematical modeling, environmental policy, and case studies in system science. Topical specialized coursework (determined by the graduate advisory committee of each individual student) provides grounding in the specific scientific disciplines needed to effectively manage the coastal and marine system. After the completion of any required leveling courses and all core classes, students must successfully complete a comprehensive examination for advancement to doctoral candidacy. This examination must be scheduled no later than 24 months after initial enrollment. The required dissertation involves an independent, detailed research project of importance to the international scientific community. The graduate advisory committee of each student will guide them through the conception, design, construction, and execution of a systems-based inquiry. Students who earn PhD degrees in the sciences are typically employed in teaching or research positions in universities, or in pure research applications at specialized institutions or governmental agencies.

**Student Learning Outcomes**

As part of their progression through the Coastal and Marine System Science program, the students will:

- acquire the skills required for system science studies applied to coastal and marine topics such that they are prepared to conduct CMSS original research
- perform original and hypothesis-driven quantitative analyses that will lead to comprehensive verifiable models of natural systems
- emphasize mathematical and/or analytical skills to generate new data and critically evaluate models that will aid in our understanding of dynamic natural
systems, become a resource capable of answering environmental "what if" questions by providing comprehensive interpretation

- develop the skills necessary to present and publish their work at national and international venues
- develop the skills necessary to teach effectively a college level class in the area of Sciences and Technology
- develop a skill set and research record such that they can secure employment in universities, federal agencies, private companies or non-governmental organizations where they can apply the skills and knowledge acquired during the program

Admission Requirements

Persons seeking admission to the CMSS Program should apply through the university Office of Research and Graduate Studies. In addition to the documents required by that office, applicants must submit GRE general test scores, an essay of no more than 1,000 words describing their educational background, career interests, goals and challenges, a curriculum vitae, and three letters of evaluation from persons knowledgeable about their potential for success in graduate studies. Persons seeking admission to the PhD Program in CMSS should first contact the program faculty and identify a faculty member willing to serve as the graduate advisor. Applicants will not be admitted to the program without a graduate advisor. Applicants may optionally submit other relevant materials, e.g. copies of published works or reports of past scientific research. All materials submitted will be considered. A campus visit with personal interviews involving prospective faculty mentors is highly recommended. Completed applications should be received by the Office of Research and Graduate Studies by the specified priority deadlines:

- Fall Semester - February 1
- Spring Semester - August 1
- Summer Semester - January 1

Incomplete applications are not considered. The applicant will be notified of acceptance or rejection by letter.

Students accepted into the degree program must demonstrate proficiency in the natural sciences, mathematical modeling, and geospatial technology. This proficiency can be demonstrated by the successful completion of undergraduate classes in these topics, or by presentation of satisfactory evidence to the CMSS Program Coordinator. Students who are unable to demonstrate proficiency in the natural sciences, mathematics, or geospatial technology may be required to take undergraduate or graduate courses. These courses will not apply towards the total required for the PhD degree.
Teaching assistantships, graduate research assistantships, and fellowship positions are available to admitted degree-seeking students who maintain full-time graduate student status (9 credit hours per semester). For additional information, please contact the CMSS Program Coordinator, College of Science and Engineering, Texas A&M University-Corpus Christi, 6300 Ocean Dr., Corpus Christi, Texas 78412-5850.

Degree Requirements

Each student accepted to the PhD in the Coastal and Marine System Science degree program must complete a minimum of 90 hours beyond the bachelor’s degree or 60 hours beyond the master’s degree. No more than one-third of the required hours may be taken at the 5000-level with approval from the student’s graduate advisory committee. The remainder must be taken at the 6000-level. A student’s advisory committee must approve the program degree plan. All students must successfully complete at least nine semester credit hours per long semester to remain in the program. All students must pass a final dissertation defense, to be administered by their advisory committee, during their last semester before graduation.

The program normally requires a minimum of 18 credit hours (for students with an MS degree) or 30 credit hours (for students without an MS degree) of regular graded coursework on a PhD degree plan. Justification for exception to this rule should be prepared by the student and advisor(s), endorsed by the advisory committee, and attached to the degree plan when submitted for the department head's signature.

A. Admission from a Bachelor's Degree Option (90 semester credit hours)

Students accepted into the Coastal and Marine System Science PhD Program with only a bachelor's degree (i.e., without an MS degree) must complete a minimum of 90 semester hours of coursework and research.

- CMSS 6102 - Seminar in Coastal and Marine System Science 1 sem. hrs. (must be taken 3 times for a total of 3 sem. hrs.)
- Elective Coursework 15 sem. hrs.
- Research Coursework 51-57 sem. hrs.
- CMSS 6999 - Dissertation Defense 3-9 sem. hrs.

Choose four from the following:

- CMSS 6303 - Natural Systems Analysis 3 sem. hrs.
- CMSS 6305 - Natural Systems Modeling 3 sem. hrs.
- CMSS 6307 - Coastal and Marine Systems 3 sem. hrs.
- CMSS 6330 - Geospatial Analysis 3 sem. hrs.
CMSS 6370 - Coastal Management and Ocean Law 3 sem. hrs.

Total: 90

B. Admission from a Master's Degree Option (60 semester credit hours)

Students accepted into the Coastal and Marine System Science PhD Program with a master's degree (i.e., with a MS degree) must complete a minimum of 60 semester hours of coursework and research.

- CMSS 6102 - Seminar in Coastal and Marine System Science 1 sem. hrs. (must be taken 3 times for a total of 3 sem. hrs.)
- Elective coursework 6 sem. hrs.
- Research coursework 30-36 sem. hrs.
- CMSS 6999 - Dissertation Defense 3-9 sem. hrs.

Choose four from the following:

- CMSS 6303 - Natural Systems Analysis 3 sem. hrs.
- CMSS 6305 - Natural Systems Modeling 3 sem. hrs.
- CMSS 6307 - Coastal and Marine Systems 3 sem. hrs.
- CMSS 6330 - Geospatial Analysis 3 sem. hrs.
- CMSS 6370 - Coastal Management and Ocean Law 3 sem. hrs.

Total: 60

C. Elective, Specialized, and Topical Coursework

Elective and Specialized coursework are chosen from among approved biology, chemistry, coastal and marine system science, computer science, environmental science, geographic information science, geology, marine biology, or other course offerings, in consultation with student’s advisory committee.

Students admitted from a Bachelor’s Degree Option must choose two electives with substantial marine content from this list of CMSS courses: Coastal and Marine Systems, Physical Oceanography, Coastal Oceanography, Geological Oceanography, Global Geochemical Cycles and Change, Global Change and its effects on Aquatic Ecosystems, Coastal Geoenvironments and Change, Marine Ecosystem Dynamics. Students admitted to the doctoral program from a Master’s Degree Option must choose one elective course from this list.
Topical coursework is offered under the heading of *CMSS 6590 - Advanced Topics*. Classes or research projects designated as part of the elective coursework requirement must receive the approval of a student’s graduate advisory committee. Students must demonstrate to the committee that the selection of classes or research projects produces a coherent course of study focused on the student’s particular area of emphasis. Depending on the emphasis area, selections may include coastal and marine system science, marine biology, the natural sciences, computer science, geographic information science, mathematics, political science, public administration, business law, or other areas as stipulated by the graduate advisory committee.

D. Dissertation Format and Style

The dissertation must be prepared in a standard format and style dictated by the advisory committee. Guidance can be found in the CMSS Student Handbook. For more information, consult the College of Graduate Studies.

Upon approval by a student's graduate advisory committee, a copy of the dissertation will be sent to the Dean of Graduate Studies. At the time of successful completion of the dissertation exam, committee members will sign the dissertation and return it to the Dean of Graduate Studies for final approval and signature. See also "Requirements for Doctoral Programs" in the general section of this catalog.

E. Research, Dissertation Research, and Dissertation Defense

Three courses are taken for the main research component of the degree: CMSS 6996 - Research (1-9 credit hours), CMSS 6998 - Dissertation Research (1-9 credit hours), and CMSS 6999 - Dissertation Defense (3-9 credit hours). During the initial phase of the program, students take CMSS 6996 - Research (1-9 credit hours), with approval of their advisor. Students can also enroll in CMSS 6596 - Directed independent Study (1-5 credit hours), supervised by their advisor or other faculty members at any stage of the program progression. Once students have passed their qualifying exam and become degree candidates, they should take CMSS 6998 - Dissertation Research (1-9 credit hours) with approval of their advisor. The courses CMSS 6996 - Research and CMSS 6998 - Dissertation Research are graded with an S or U, and may be repeated. Finally students must enroll in CMSS 6999 - Dissertation Defense (3-9 credit hours), during their last semester (see below). CMSS 6999 - Dissertation Defense is taken as Credit/No Credit.

F. Final Dissertation Defense
Each student must pass a final dissertation defense examination during the last semester before graduation, to be administered by the student’s graduate advisory committee. The exam will cover topics related to (1) all graduate coursework undertaken for the CMSS program, (2) a student’s dissertation research area, and (3) broad concepts of system science, including familiarity with the literature and appropriate professional societies. The student is responsible for scheduling the defense with the faculty involved. A student who fails the defense may repeat it once, but only after an interval of four months or more. If a student fails the second defense, he or she will be terminated from the program. Students must enroll in the course CMSS 6999 during the semester in which they are planning to take the dissertation defense and/or graduate.

For Additional Information

Website: http://cmss.tamucc.edu/

Campus Address: Center for Instruction, Room 130E; Phone: (361) 825-2681

Mailing Address: Coastal and Marine System Science Program, Unit 5850
College of Science and Engineering
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5850

Course Descriptions

Accounting

ACCT 5312 - Foundations of Accounting

3 sem. hrs. Theoretical and applied facets of financial and managerial accounting for business. The course includes preparation and communication of financial information as well as the uses of accounting data in planning and controlling activities of business firms and other types of organizations. (This is a core course.) Not open to students who have completed six semester hours of accounting. (This is a core course.) Not open to students who have completed six semester hours of accounting.

ACCT 5315 - Accounting Topics
3 sem. hrs. A continuation of financial and managerial accounting with emphasis on applications, and analysis and interpretation of financial statements. Prerequisites: ACCT 5312 or equivalent.

**ACCT 5317 - Oil, Gas and Energy Accounting**

3 sem. hrs. This course covers the basic principles of oil and gas accounting. Course topics include upstream oil and gas operations, successful efforts accounting, full cost pool accounting, accounting for production, exploration and construction, joint interest accounting, international operations, oil and gas taxation and analysis of oil and gas financial statements. Prerequisites: graduate standing and ACCT 3311 or equivalent.

**ACCT 5332 - Controllership**

3 sem. hrs. Development and integration of budgets, variable budgets, cash budgets, capital budgets, and cost-volume-profit analysis for operational planning and financial controls. Case Study orientation. Prerequisite: ACCT 5312 or equivalent.

**ACCT 5337 - Taxes and Business Strategy**

3 sem. hrs. A framework to analyze how tax rules affect decision-making. Cases and problems, taken from historical and current developments in tax planning, develop understanding of how changes in tax rules influence the behavior of various constituents in the broad business and regulatory environment. Prerequisites: ACCT 5312 or equivalent.

**ACCT 5340 - Forensic Accounting**

3 sem. hrs. The course will cover the concepts and skills of forensic accounting investigations. The course focuses on the methods and technological tools used to detect occupational fraud. These include the steps in conducting an investigation, use of technological tools, witness and suspect interviewing techniques, investigation report writing, and expert testimony. Prerequisites: graduate standing and ACCT 3340 or ACCT 4311 or equivalent.

**ACCT 5341 - Advanced Auditing and Assurance Services**

3 sem. hrs. Advanced topics in auditing and assurance services such as: fraud auditing, operational auditing, assurance services for information technology and e-commerce,
auditor ethics, legal liability, risk assessment, and audit technology issues. Prerequisites: accounting foundation courses or their equivalent.

ACCT 5345 - Ethics for Accountants and Business Executives

3 sem. hrs. The course will cover ethical theory, ethical reasoning, integrity, objectivity, independence and other core values and regulatory requirements associated with the practice of professional accounting and decision making of other executives, with an emphasis on corporate governance in the post-Sarbanes-Oxley regulatory environment. This course satisfies the ethics education requirement of the TSBPA; however, it will not be counted for advanced accounting hours required to sit for the CPA exam. Students who receive credit for ACCT 4345 cannot also receive credit for ACCT 5345.

ACCT 5351 - Strategic Cost Management

3 sem. hrs. A conceptual approach to the use of cost accounting information to support decision-makers as they develop, communicate, implement, evaluate and modify organizational strategy. The linkage between cost management and strategy is facilitated by examining such tools as: cost driver, value chain, and organizational design analyses. Prerequisites: accounting foundation courses or their equivalent.

ACCT 5355 - Information Systems in Accounting

3 sem. hrs. A study of current topics in accounting information systems. Topics include the role of accounting information systems and their applications in a variety of computer environments including the Internet, service organizations, and centralized and decentralized environments. Prerequisites: accounting foundation courses or their equivalent.

ACCT 5370 - Seminar

1-3 sem. hrs. Seminar in an identified topic in accounting. May be repeated for significantly different topics with written permission from the Director of Master's Programs. Prerequisite may vary depending on topic.

ACCT 5371 - Tax Consulting, Planning and Research

3 sem. hrs. An advanced study of the Internal Revenue Code and related materials to identify tax-savings opportunities for business and individuals. Emphasizes sound tax planning and research techniques as applied to real or case study situations. Prerequisites: accounting foundation courses or their equivalent.
ACCT 5381 - Accounting Theory

3 sem. hrs. A study of diverse accounting theories and concepts. Includes an intensive study of the underlying framework of financial accounting. Contemporary accounting issues are emphasized focusing on proper financial statement presentation and disclosure. Includes the study of similarities and differences between U.S. GAAP and International Financial Reporting Standards and the related convergence projects. Prerequisites: accounting foundation courses or their equivalent.

ACCT 5391 - Integrative Seminar in Accounting

3 sem. hrs. The use of case studies to explore the integration of financial accounting, auditing, taxation, managerial accounting and accounting information systems to assess their relationship individually and collectively to business decision-making. Must be taken at the end of the program after completion of all advanced, non-elective courses. In unusual circumstances, it may be taken concurrently with the final non-elective courses with the written permission of the Director of Master's Programs.

ACCT 5396 - Directed Individual Research or Readings

1-3 sem. hrs. Contact the Director of Master's Programs.

Art

ARTS 5301 - Workshop in Art

1-3 sem. hrs. Current trends and approaches in art with emphasis on contemporary processes and techniques in studio work. May be repeated when topics vary. Offered on sufficient demand.

ARTS 5302 - Studio in Art: Ceramics

3 sem. hrs. Individual study and direction in ceramics. Prerequisite: 3300 level studio course in ceramics. May be repeated.

ARTS 5303 - Studio in Art: Drawing

3 sem. hrs. Individual study and direction in drawing. Prerequisite: 3300 level studio in drawing. May be repeated.
ARTS 5304 - Studio in Art: Graphic Design

3 sem. hrs. Individual study and direction in graphic design. Prerequisite: 3300 level studio course in that medium. May be repeated.

ARTS 5305 - Studio in Art: Painting

3 sem. hrs. Individual study and direction in painting. Prerequisite: 3300 level studio course in painting. May be repeated.

ARTS 5306 - Studio in Art: Photography

3 sem. hrs. Individual study and direction in photography. Prerequisite: 3300 level studio course in that medium. May be repeated.

ARTS 5307 - Studio in Art: Printmaking

3 sem. hrs. Individual study and direction in printmaking. Prerequisite: 3300 level studio course in printmaking. May be repeated.

ARTS 5308 - Studio in Art: Sculpture

3 sem. hrs. Individual study and direction in sculpture. Prerequisite: 3300 level studio course in sculpture. May be repeated.

ARTS 5312 - MFA Studio in Art: Ceramics

3 sem. hrs. Individual study and direction in ceramics. Enrollment in the MFA program required. May be repeated.

ARTS 5313 - MFA Studio in Art: Drawing

3 sem. hrs. Individual study and direction in drawing. Enrollment in the MFA program required. May be repeated.

ARTS 5314 - MFA Studio in Art: Graphic Design

3 sem. hrs. Individual study and direction in graphic design. Enrollment in the MFA program required. May be repeated.

ARTS 5315 - MFA Studio in Art: Painting
3 sem. hrs. Individual study and direction in painting. Enrollment in the MFA program required. May be repeated.

**ARTS 5316 - MFA Studio in Art: Photography**

3 sem. hrs. Individual study and direction in photography. Enrollment in the MFA program required. May be repeated.

**ARTS 5317 - MFA Studio in Art: Printmaking**

3 sem. hrs. Individual study and direction in printmaking. Enrollment in the MFA program required. May be repeated.

**ARTS 5318 - MFA Studio in Art: Sculpture**

3 sem. hrs. Individual study and direction in sculpture. Enrollment in the MFA program required. May be repeated.

**ARTS 5390 - MA Seminar in Studio Art**

3 sem. hrs. Various thematic discussion and projects pertaining to studio work under the guidance of a studio faculty member with possible guest lecturers and artists.

**ARTS 5391 - MFA Seminar in Art**

3 sem. hrs. Various thematic discussions and projects pertaining to studio work under the guidance of a studio faculty member, and possible guest lecturers and artists.

**ARTS 5393 - Seminar in Art History and Aesthetics**

3 sem. hrs. Study in specific areas of art history and aesthetics. May be repeated when topics vary. Prerequisite: an upper-division course in art history.

**ARTS 5394 - MA Project**

3 sem. hrs. Public exhibition, portfolio, research paper or other creative activity approved by the student's supervisory committee and accompanied by a final oral examination. Photographic documentation is required for any project other than professional paper. Written statement of three to five pages required of project other than research paper. Prerequisite: approval of the student's supervisory committee.

**ARTS 5395 - MFA Teaching Assistant Practicum**
3 sem. hrs. This course is for graduate teaching assistants and includes discussion of individual advising, group discussion of current experience, guest lectures by experienced artists/teachers. Offered on demand.

**ARTS 5396 - Individual Study**

1-3 sem. hrs. A carefully planned special study on an academic topic not offered as part of the regular graduate curriculum. Directed Individual Study (DIS) is a tutorial, directed and evaluated by a member of the graduate art faculty. Enrollment is restricted to graduate students who have demonstrated both academic ability and the capacity for independent work. Complete applications must be filed and approved by a committee of the graduate art faculty and the Dean of Liberal Arts in advance of registration. Prerequisites: 1) At least 6 semester hours of graduate 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 course with the supervising instructor. A maximum of 6 semester hours of 5396 may be counted towards the graduate degree. Offered on application to the program coordinator.

**ARTS 5398 - MFA Exhibition**

6 sem. hrs. Public exhibit to be approved by the student's supervisory committee and accompanied by a final oral examination, photographic documentation and written statement of problem. Prerequisite: approval of the student's supervisory committee.

**ARTS 5399 - Gallery and Museum Practices**

3 sem. hrs. Study of the functions of galleries and museums: curating, preparation, grantsmanship, crating, documentation, and publicity. Visits to galleries and museums will be made around South Texas as well as Houston.

**Bilingual/ESL/Multicultural**

**BIEM 5343 - Foundations in Bilingual Education**

3 sem. hrs. A study of bilingualism and bilingual education in the United States with attention to rationale, philosophy, and program models.

**BIEM 5344 - Methods of Teaching Bilingual Children**
3 sem. hrs. Methods and techniques of teaching bilingual students in elementary schools. Emphasis is on teaching Spanish language arts.

BIEM 5345 - Developmental Linguistics

3 sem. hrs. Language acquisition and development with special reference to their implications for teaching monolingual and bilingual students.

BIEM 5346 - Pedagogical implications of Bilingual/ESL

3 sem. hrs. Overview of curriculum alignment in the bilingual classroom. Includes analysis of language assessment instruments and the pedagogical implications associated with the education of culturally and linguistically diverse students. Students who have taken BIEM 5346 may not enroll in BIEM 6346.

BIEM 5347 - Methods of Teaching English As a Second Language

3 sem. hrs. Advanced studies in methodology and techniques available for teaching learners whose native language is not English. Some attention to sociolinguistics is considered.

BIEM 5349 - Contrastive Analysis

3 sem. hrs. A descriptive/contrastive approach to the study of Spanish and English linguistic structures. Introduces basic concepts of language, linguistics, and bilingualism.

BIEM 5390 - Professional Seminar

1-3 sem. hrs. Contemporary issues in Bilingual/ESL Multicultural Education: topics vary with professional identification of participants.

BIEM 5397 - Practicum-multicultural Education

3 sem. hrs. This course is designed to provide the student with in-depth knowledge and skills in the content areas as they apply to the education of language minority children in appropriate multicultural, multilingual, and multilevel settings.

BIEM 5696 - Directed individual Study

1-6 sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.
BIEM 6346 - Pedagogical Implications of Bilingual/ESL

3 sem. hrs.

Overview of curriculum alignment in the bilingual classroom. Includes analysis of language assessment instruments and the pedagogical implications associated with the education of culturally and linguistically diverse students. Students who have taken BIEM 5346 may not enroll in BIEM 6346.

Biology

Graduate Courses

Graduate standing is required for enrollment in 5000-level courses. Exceptions can be made for outstanding undergraduate students with the Dean's consent. For details, see “Graduate Study by Undergraduates” in the catalog chapter titled “Academic and Degree Requirements.” Weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the semester hours when appropriate. The laboratory hours shown are laboratory instructional time. In most cases, additional laboratory time will be required to complete assigned work. Prerequisites for entry into a course are indicated, but may be waived with permission of the instructor.

BIOL 5102 - Graduate Defense Seminar

1 sem. hrs. Presentation of research conducted for MS degree. Should be taken the last semester of resident graduate study. Open only to MS Thesis and Non-thesis Degree Candidates in Biology. Students can enroll in any semester with the approval of their graduate advisory committee chair. Offered any semester upon request by a student and consent of the instructor.

BIOL 5304 - Virology

3 sem. hrs. (3:0) Survey of bacteriophages and major pathogenic plant and animal viruses including Baltimore classification, viral replication, and emerging viral diseases. Emphasis on analysis and review of primary literature on viruses. Prerequisites: BIOL 2416 - Genetics, BIOL 2421 - Microbiology and CHEM 3412 - Organic Chemistry II, or equivalents. Offered spring semester of odd-numbered years.

BIOL 5308 - Biogeography
3 sem. hrs. (3:0) Selected reading, discussion and projects concerning the geographic
distribution of plants and animals. Prerequisites: BIOL 3428 - Principles of Ecology or
BIOL 3414 - Vertebrate Biology, or equivalent. Offered on sufficient demand.

BIOL 5309 - Systematics

3 sem. hrs. (3:0) Theories, methods, molecular and evolutionary basis of systematic
biology; and rules and relationships of nomenclature used in classification. Offered
spring semester of odd-numbered years.

BIOL 5310 - Physiological Adaptations in Animals

3 sem. hrs. (3:0) A study of the physiological adaptations of animals to their
environment, including osmoregulatory and temperature regulatory mechanisms.
Prerequisite: BIOL 3430 - Physiology, or equivalent. Offered fall semester of odd-
numbered years.

BIOL 5311 - Cellular Bases of Behavior

3 sem. hrs. (3:0) Using vertebrate and invertebrate animal models, this graduate-level
course explores how behaviors emerge from the activity of neural circuits and how
experience modulates these circuits. Prerequisite: An introductory neurobiology course is
recommended. Offered fall semester every year.

BIOL 5322 - Molecular Genetics

3 sem. hrs. (3:0) In-depth study of the molecular basis of genetic interactions; focus on
molecular mechanisms of mutation, suppression and recombination. Prerequisites:
CHEM 3412 - Organic Chemistry II, BIOL 2416 - Genetics, and BIOL 3403 - Molecular
Biology, or equivalents. Offered on sufficient demand.

BIOL 5329 - Plant Adaptations

3 sem. hrs. (3:0) Emphasis on living gymnosperms and angiosperms and their adaptive
significance. Offered on sufficient demand.

BIOL 5335 - Aquatic Microbiology

3 sem. hrs. (3:0) Types and distribution of microorganisms in aquatic environments.
Interactions with other organisms. Role in nutrient cycling, degradation of organic
substances, pollution, water purification. Prerequisite: BIOL 2421 - Microbiology, or
equivalent. Offered spring semester of odd-numbered years.
BIOL 5340 - Genomics, Proteomics and Bioinformatics

3 sem. hrs. (3:0) Integrative biological study using genome-wide approaches and bioinformatics. The "-omics" technologies (Genomics, Proteomics, Metabolomics, etc) will be reviewed. Applications to understanding biological function in various biological disciplines will be emphasized. Offered during fall. Prerequisites: BIOL 2416 - Genetics, and BIOL 3410 - Cell Biology or CHEM 4301 - Biochemistry I, or equivalents. Offered fall semester every year.

BIOL 5392 - Thesis Proposal

3 sem. hrs. Thesis students must submit a completed proposal for their thesis project. A course section will be created for the student to enroll. Upon successful completion and submission of the proposal signed by the graduate committee of the student, students may then register for BIOL 5393 Thesis Research. Open only to MS Thesis Degree Candidates in Biology. Qualified students can enroll in any semester with the approval of their graduate advisory committee chair. Offered any semester upon request by a student and consent of the instructor.

BIOL 5393 - Thesis Research

3 sem. hrs. Implementation of the Thesis Proposal, and the production of a rough draft of the thesis submitted for initial editing and comment. A course section will be created for the student to enroll. Students can enroll in any semester with the approval of their graduate advisory committee chair. Prerequisite: BIOL 5392 - Thesis Proposal. Offered any semester upon request by a student and consent of the instructor.

BIOL 5394 - Thesis Submission

3 sem. hrs. Completion of the final draft of the thesis, signed by the graduate committee of the student and ready for binding and distribution. A course section will be created for the student to enroll. Students can enroll in any semester with the approval of their graduate advisory committee chair. Prerequisite: BIOL 5392 - Thesis Proposal. Prerequisite or Corequisite: BIOL 5393 - Thesis Research. Offered any semester upon request by a student and consent of the instructor.

BIOL 5396 - Directed Independent Study

1-3 sem. hrs. Study in areas of current interest. Credit is not given for research on the thesis project. A total of six semester hours of Directed Independent Study may be counted toward the MS degree. Offered any semester upon request by a student and consent of the instructor.
BIOL 5397 - Directed Research

3 sem. hrs. (3:0) Emphasis on experimental design as related to selected biological topics. Application of research skills. For students selecting the Professional (non-thesis) option. Students can enroll in any semester with the approval of their graduate advisory committee chair. Offered any semester upon request by a student and consent of the instructor.

BIOL 5406 - Immunology

4 sem. hrs. (3:3) An in-depth study of immunology. Emphasizes function and interaction of specific cells, cytokines, lymphokines, antibodies and molecules that are the essential components of the immune system. The course includes up-to-date coverage of both innate and adaptive immunity, and the immune system in health and disease. Prerequisite: BIOL 2421 - Microbiology or equivalent. BIOL 3410 - Cell Biology or BIOL 3345 - Cell Physiology are strongly recommended. Corequisite: Safety training given in SMTE 0092 - Biomedical Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester every year.

BIOL 5407 - Mycology

4 sem. hrs. (3:3) Biology, classification, and ecology of the fungi. Applied aspects and current topics in mycology and mycological techniques. Prerequisite: BIOL 2421 - Microbiology or equivalent. Safety training given in SMTE 0092 - Biomedical Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester of even-numbered years.

BIOL 5408 - Microbial Ecology

4 sem. hrs. (3:3) Relationships between microorganisms and their biotic and abiotic environments. Role of microorganisms in biogeochemical cycling. Methodology in microbial ecology. Biotechnological aspects. Prerequisite: BIOL 2421 - Microbiology, or equivalent. Corequisite: Safety training given in SMTE 0092 - Biomedical Laboratory Safety Seminar is required for continued participation in this course. Offered fall semester every year.

BIOL 5409 - Field and Sampling Techniques

4 sem. hrs. (3:3) Experience in field studies, organizing field notes, collecting and methods of preserving organisms for teaching and museum purposes. The course includes field ecological sampling methods, environmental data collection, safety, logistics, and proper scientific equipment operation. Requires permission of the instructor. Corequisite:
Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered summer semester every year.

**BIOL 5410 - Mammalogy**

4 sem. hrs. (3:3) The course is designed for graduate students in biology wanting to acquire a more detailed working knowledge and appreciation of mammalian diversity in structure, function, ethology, and ecology. Knowledge and skills acquired in this course will be useful to field and laboratory studies in ecology, evolution, animal behavior, biogeography, wildlife management, and related disciplines. Prerequisite: BIOL 3414 - Vertebrate Biology, or equivalent, or permission of instructor. Corequisite: Safety training given in SMTE 0091 Biological Laboratory Safety Seminar is required for continued participation in this course. Offered fall semester of even-numbered years.

**BIOL 5411 - Ethology**

4 sem. hrs. (3:3) Adaptive aspects of animal behavior. Prerequisite: BIOL 3414 - Vertebrate Biology or BIOL 3428 - Principles of Ecology, or equivalent. Corequisite: Safety training given in SMTE 0091 Biological Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester every year.

**BIOL 5414 - Growth and Development**

4 sem. hrs. (3:2) Special topics involving growth and development in plants and animals. Corequisite: Safety training given in SMTE 0092 Biomedical Laboratory Safety Seminar is required for continued participation in this course. Offered on sufficient demand.

**BIOL 5416 - Advanced Environmental Biology**

4 sem. hrs. (3:2) Advanced study of different aspects of man's relationship with the biological and physical environment. Includes readings in current literature and research on an environmental issue. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered on sufficient demand.

**BIOL 5420 - Application of Molecular Techniques**

given in SMTE 0092 - Biomedical Laboratory Safety Seminar is required for continued participation in this course. Offered on sufficient demand.

**BIOL 5422 - Plant Taxonomy**

**4 sem. hrs. (3:3)** Experimental and analytical approaches to plant variation and evolution, breeding systems, cyto- and molecular genetics, hybridization and phylogeny. The course will present a foundational approach to the methods, research and terminology of plant systematics and summarize information on the most recent knowledge of evolutionary relationships as well as practical information vital to field work. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester every year.

**BIOL 5425 - Ornithology**

**4 sem. hrs. (3:3)** The course is designed for graduate students in biology wanting to acquire a more detailed working knowledge and appreciation of avian diversity in structure, function, ethology, and ecology. Knowledge and skills acquired in this course will be useful to field and laboratory studies in ecology, evolution, animal behavior, biogeography, wildlife management, and related disciplines. Prerequisite: BIOL 3414 - Vertebrate Biology, or permission of instructor. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered fall semester of odd-numbered years.

**BIOL 5429 - Marine Botany**

**4 sem. hrs. (3:3)** Marine plants are a diverse group that includes unicellular algae, seaweeds, seagrasses, salt marshes, and mangrove forests. The goal is to present taxonomic, physiological, chemical, and ecological aspects of marine plants, their adaptations, and how abiotic and biotic factors interact in their communities. The use of recent journals and original scientific research will allow the student to evaluate anthropogenic effects to these communities and develop methods of restoration and management. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered fall semester every year.

**BIOL 5430 - Marine Plankton**

**4 sem. hrs. (3:3)** Investigation of the systematics, distribution, and ecology of marine plankton. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory
Safety Seminar is required for continued participation in this course. Offered spring semester of even-numbered years.

**BIOL 5431 - Phycology**

**4 sem. hrs. (3:3)** Study of the major groups of freshwater and marine algae; morphology, ecology, systematics, life cycles, and physiology. Laboratories emphasize collection, identification, and culturing techniques. Corequisite: Safety training given in SMTE 0092 - Biomedical Laboratory Safety Seminar is required for continued participation in this course. Offered fall semester of even-numbered years.

**BIOL 5432 - Ichthyology**

**4 sem. hrs. (3:3)** The study of fish encompassing species diversity, natural history, and evolutionary and ecological relationships of fishes. This course will consist of four major parts: (1) Evolution, (2) Systematics, (3) Biology, and (4) Ecology of fish. Laboratory identification of marine and freshwater fishes from the University archives and collected during field excursions. Prerequisite: BIOL 3414 - Vertebrate Biology, or equivalent. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered fall semester every year.

**BIOL 5435 - Biological Microtechniques**

**4 sem. hrs. (2:4)** The theory and practice of using histochemical and microscopic techniques to prepare tissues and small specimens for research analysis. Prerequisites: CHEM 3411 - Organic Chemistry I, or equivalent. Corequisite: Safety training given in SMTE 0092 - Biomedical Laboratory Safety Seminar is required for continued participation in this course. Offered summer semester of even-numbered years.

**BIOL 5436 - Marine Ecological Processes**

**4 sem. hrs. (3:3)** Advanced studies in structure and habitats of marine environments. Emphasis on factors influencing distribution of marine organisms, including field trips to areas along the Texas coast. Prerequisite: BIOL 3428 - Principles of Ecology, or equivalent. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester every year.

**BIOL 5442 - Herpetology**
**4 sem. hrs. (3:3)** A global perspective and current research topics on the biology of amphibians and reptiles. Prerequisite: BIOL 3414 - Vertebrate Biology, or equivalent, or permission of instructor. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered summer semester of even-numbered years.

**BIOL 5590 - Special Topics**

**1-5 sem. hrs. (1:0-3:4)** An advanced study of a biological topic. May be repeated with full credit in another area of biology. Topics vary by semester. Corequisite: When laboratory hours are included, safety training given in SMTE 0091 - Biological Laboratory Safety Seminar, SMTE 0092 - Biomedical Laboratory Safety Seminar, or SMTE 0093 - Chemistry Laboratory Safety Seminar is required for continued participation in this course. May be offered any semester: students should consult the online course schedule.

**BIOL 5940 - Project Research**

**1-9 sem. hrs. (ind. study)** Research related to the MS project. Open only to degree candidates in biology with consent of the graduate advisor. This course may be repeated as needed but a maximum of 4 hours can be applied to the MS degree in biology. Course is taken as credit/non-credit. Students can enroll in any semester with the approval of their graduate advisory committee chair. Offered any semester upon request by a student and consent of the instructor.

**Biomedical Sciences**

Graduate courses in biomedical sciences are offered in support of graduate degree programs in biology, environmental science, nursing and health sciences, marine biology, and education. For details concerning these particular degree programs, consult the College of Science and Engineering section of the catalog.

**For Additional Information**

**Website:** http://lsci.tamucc.edu/bims

**Campus address:** Science and Technology Building Room 319; Phone (361) 825-2754

**Mailing address:** Biomedical Sciences Program, Unit 5800
College of Science and Technology
BIMS 5311 - Principles of Oncology

3 sem. hrs. (3:0) This course is a study of the profile of cancer cells, and the various causes of human cancer. Contribution of heredity, environmental factors, and infectious agents to oncogenesis will be studied. The latest published information on cancer screening, diagnosis, and treatment will be discussed. Various types of cancer will be presented. Prerequisite: BIOL 2416 - Genetics, or equivalent. Limited to individuals who have not taken BIMS 4311 - Biology of Cancer for undergraduate credit. Offered fall semester of even-numbered years.

BIMS 5323 - Neurosciences

3 sem. hrs. (3:0) The anatomy and physiology of the vertebrate nervous system with emphasis on functions and actions of the central nervous system. Prerequisites: CHEM 3412 - Organic Chemistry II, or equivalent. Limited to individuals who have not taken BIMS 4323 - Neurobiology for undergraduate credit. Offered spring semester every year.

BIMS 5327 - Toxicology

3 sem. hrs. (3:0) This course will provide students requisite knowledge to design and supervise appropriate tests in vivo and in vitro in order to investigate the toxicity of substances and to assess the implications of the results. Students will be expected to have an appreciation of the toxicity of a number of representative compounds and be able to apply their knowledge to the evaluation of chemicals in pharmaceutical preparations, agriculture, food and consumer products, the workplace, and the environment. Limited to individuals who have not taken BIMS 4327 - Introduction to Toxicology for undergraduate credit. Offered summer semester every year.

BIMS 5330 - Biology of Aging

3 sem. hrs. (3:0) An examination of one phase of the developmental process - the aging organism. Perspectives of aging in human beings and other organisms are reviewed. Topics include: demographics of human aging; research methodologies and measurements; development of age-related diseases; theories of aging; and anti-aging interventions. Prerequisites: CHEM 3412 - Organic Chemistry II, CHEM 4402 - Biochemistry II, and BIOL 3430 - Physiology, or equivalents. Limited to individuals who
have not taken BIMS 4330 - Biological Basis of Aging for undergraduate credit. Offered on sufficient demand.

**BIMS 5333 - Public Health Entomology**

*3 sem. hrs. (3:0)* The medical, veterinary and forensic importance of arthropods: especially their relationships with host organisms, their role as hosts and vectors of disease-causing organisms, and strategies for their control. Involves discussion of research papers on these topics. Limited to individuals who have not taken BIMS 4333 - Medical Entomology for undergraduate credit. Offered on sufficient demand.

**BIMS 5334 - Medical Genetics**

*3 sem. hrs. (3:0)* A study of genetic influences on health and disease. Prerequisites: CHEM 3412 - Organic Chemistry II and BIOL 2416 - Genetics, or equivalents. Limited to individuals who have not taken BIMS 4334 - Human Genetics for undergraduate credit. Offered on sufficient demand.

**BIMS 5374 - Molecular Medical Microbiology**

*3 sem. hrs. (3:0)* Study of common pathogenic microorganisms in eukaryotic animals. Includes bacterial, viral, parasitic, and fungal infections, with emphasis on epidemiology, immunity, pathogenesis and treatment. Stress placed on case studies and didactic lectures, with presentations of updates on molecular basis of diseases based on current literature. Prerequisite: BIOL 2421 - Microbiology, or equivalent. BIOL/BIMS 4406 - Immunology is strongly recommended. Limited to individuals who have not taken BIMS 4374 - Medical Microbiology for undergraduate credit. Offered fall semester every year.

**BIMS 5375 - Microbial Pathogenesis**

*3 sem. hrs. (3:0)* Study of the mechanisms by which microorganisms invade a host and produce pathological symptoms associated with disease. Emphasis is on the chemical and molecular interaction between various pathogens and host cells, especially immune responses. Involves discussion of research papers on these topics. Prerequisite: BIOL 2421 - Microbiology, or equivalent. Limited to individuals who have not taken BIMS 4375 - Mechanisms of Microbial Pathogenesis for undergraduate credit. Offered summer semester of even-numbered years.

**BIMS 5396 - Directed Independent Study**

*1-3 sem. hrs.* Study in an area of current interest. Credit is not given for research on the thesis project. A total of six semester hours of Directed Independent Study may be
counted toward the MS degree. Prerequisite: Consent of the instructor. Offered any semester upon request by a student and consent of the instructor.

**BIMS 5410 - Cells and Tissues**

**4 sem. hrs. (3:3)** Analysis of tissues: their cellular and sub-cellular components, and the unique properties that emerge when they interact to form organs. Lecture and laboratory emphasize normal mammalian tissues, and students explore other aspects of tissue biology through individual research projects. Prerequisite: Completion of a college-level course in anatomy is strongly recommended. Corequisite: Safety training given in SMTE 0092 - Biomedical Laboratory Safety Seminar is required for continued participation in this course. Limited to individuals who have not taken BIMS 4410 - Histology for undergraduate credit. Offered fall semester of even-numbered years.

**BIMS 5590 - Special Topics**

**1-5 sem. hrs. (1:0-3:4)** Variable content. Advanced study of a biomedical topic that may include current literature research. May be repeated for credit when topics are sufficiently different. Prerequisite: Consent of the instructor. Corequisite: When laboratory hours are included, safety training given in SMTE 0091 - Biological Laboratory Safety Seminar, SMTE 0092 - Biomedical Laboratory Safety Seminar, or SMTE 0093 - Chemistry Laboratory Safety Seminar is required for continued participation in this course. May be offered any semester: students should consult the online course schedule.

**Business Law**

**BLAW 5330 - Environmental Law and Policy**

**3 sem. hrs.** This course offers a broad-based assessment of legal and legislative environmental issues affecting American industry and culture. Emphasis on key political, economic, social, legal and regulatory issues affecting current environmental law.

**BLAW 5370 - Seminar**

**1-3 sem. hrs.** Seminar in an identified topic in business law. May be repeated for significantly different topics with written permission from the Director of Master's Programs. Prerequisite may vary depending on topic.

**BLAW 5396 - Directed individual Research Or Readings**
1-3 sem. hrs. Contact Director of Master's Programs.

Chemistry

Graduate courses in chemistry are offered in support of graduate degree programs in biology, environmental science and education. For details concerning these particular degree programs, consult the College of Science and Engineering section of the catalog.

For Additional Information

Website: http://pens.tamucc.edu/chem/
Campus address: Carlos F. Truan Natural Resource Center; Room 1100; Phone (361) 825-2681
Mailing address: Chemistry Program, Unit 5850
College of Science and Technology
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5850

CHEM 5303 - Research in the Chemical Sciences

3 sem. hrs. 3:0 Studies and analysis of pertinent literature. May be repeated for credit, but credit may count only once towards the degree plan. Course is taken as credit/no credit. Offered on sufficient demand.

CHEM 5317 - Advanced Instrumental Analysis

3 sem. hrs. 3:0 Advanced study of instrumental methods of analysis: spectroscopy, chromatography, and electrochemical methods. Prerequisite: CHEM 3418 Offered on sufficient demand.

CHEM 5321 - Molecular Ecology

3 sem. hrs. 3:0 A laboratory intensive graduate course that emphasizes the use of biochemical and molecular techniques to address ecological questions. Field sampling, sample preparation, biochemical and molecular genetic assays, statistical analysis and computer-based modeling techniques are used in a project-based approach to assess population genetic diversity, structure and migration rates in a key ecosystem species. Such estimates are of increasing concern for conservation and habitat management. Offered on sufficient demand.
CHEM 5322 - Supramolecular Chemistry

3 sem. hrs. 3:0 The course introduces advanced topics covering the areas synthetic molecular receptors, host-guest chemistry, biochemical self-assembly, crystal engineering and molecular templation. Supramolecular chemistry has been called "chemistry beyond the molecule" focusing on intermolecular interactions and forces leading to the formation complexes and superstructures in solution and in the solid-state. The material takes a classical approach to chemical pedagogy that instills the excitement of modern research areas in the chemical sciences. The course is designed at an advanced level for graduate students. Organic Chemistry II (CHEM 3412) Offered on sufficient demand.

CHEM 5341 - Advanced Organic Chemistry

3 sem. hrs. 3:0 The course introduces advanced topics covering the areas of molecular structure and thermodynamics as well as reactivity, kinetics, and mechanisms of organic molecular architectures and ensembles. The material takes a classical approach to chemical pedagogy that instills the excitement of modern research areas in the chemical sciences. The course is designed at an advanced level for graduate students. Organic Chemistry II (CHEM 3412). Offered on sufficient demand.

CHEM 5352 - Computational Chemistry

3 sem. hrs. The course will include the investigation of the uses and outcomes of computational chemistry, including both classical (non-quantum) simulations of molecular systems and quantum mechanical modeling of molecules. Emphasis will be on constructing an appropriate molecular model, performing the appropriate calculation, and interpreting the results of the calculation. Offered on sufficient demand.

CHEM 5361 - Organic Geochemistry

3 sem. hrs. (3:0) An introduction to the properties and cycling of natural organic materials will be presented to benefit graduate students studying marine systems. The course is designed to follow the geologic cycle of organic matter, from production in living organisms to burial in sediments and preservation in the depositional record. Specific topics include factors controlling preservation in sediments, methanogenesis, diageneric alterations of organic compounds, fossil fuel production and degradation, life in the deep biosphere, biomarkers for ancient life, and isotopic variations in the sedimentary record. Offered on sufficient demand.

CHEM 5362 - Chemical Oceanography
This course will cover both chemical processes in the oceanic environment and how biology, geology and physics affect the chemistry. Topics include air-sea interactions, water column chemistry, and reactions in sedimentary environments. Students are expected to participate in the teaching process through their involvement in small groups, class discussions, and modeling/simulation exercises.

Prerequisites: CHEM 1311, CHEM 1312, or permission of instructor. Offered on sufficient demand.

**CHEM 5369 - Advanced Molecular Spectroscopy**

**3 sem. hrs. 3:0** The course is taught at the graduate level with the curriculum focusing on the advanced spectroscopic methods of molecular structure determination. The course aims to present foundational theoretical concepts of different molecular spectroscopy techniques including nuclear magnetic resonance, infrared, ultraviolet-visible, and mass spectrosopies and how these techniques are used to interpret spectra of unknown and structurally complex molecular analytes. This includes modes of absorption and emission, qualitative and quantitative uses and potential problems and limitations. The course has been designed for students who have completed organic chemistry II lecture and laboratory during their undergraduate career. Offered on sufficient demand.

**CHEM 5375 - Stable Isotope Biogeochemistry**

**3 sem. hrs.** This course teaches stable isotope systematics of five common light elements - carbon, nitrogen, hydrogen, oxygen and sulfur in biological, geological, and systems. Course material includes basic principles, analytical methods, thermodynamic and kinetic fractionations, and applications of stable isotope analyses in a wide range of natural systems. This course is recommended to graduate students in chemistry, geology, biological sciences, and coastal and marine system science. Prerequisite: CHEM 1412, or permission of the instructor. Offered on sufficient demand.

**CHEM 5392 - Thesis Proposal**

**3 sem. hrs.**

Review of the literature on a thesis topic. Completion of a written research proposal including proposed experimental design. Prerequisites: Open only to degree candidates in chemistry. Requires consent of the graduate advisor. Spring, Summer, Fall.

**CHEM 5393 - Thesis Research**

**3 sem. hrs. 3:0** Chemistry Thesis Track students only. Collection and organization of research data. To receive a qualitative grade, the student must present a first draft of the
thesis manuscript to the thesis advisor. If the semester ends before the advisor receives the first draft, an "In Progress" is recorded and the course must be repeated. Prerequisite: Consent of the graduate advisor and a qualitative grade in CHEM 5392 - Thesis Proposal. Spring, Summer, Fall.

**CHEM 5394 - Thesis Submission**

**3 sem. hrs. 3:0**
Thesis defense and completion of the thesis manuscript including acceptance of the final copy by the advisory committee. May be repeated; no more than three hours may be taken per semester. Prerequisites: Open only to degree candidates in chemistry. Requires consent of the graduate advisor and qualitative grade for CHEM 5392 Thesis Proposal. Spring, Summer, Fall.

**CHEM 5397 - Directed Research**

**3 sem. hrs. 3:0** Chemistry Professional Track students only. Collection, organization and submission of research data. To receive a qualitative grade, the student must successfully defend the professional project, the student's graduate committee must accept the professional paper, and a final copy must be on file in the Dean's Office. If the semester ends before these are accomplished, an "In Progress" is recorded and the course must be repeated. Prerequisite: Consent of the student's graduate advisor. Spring, Summer, Fall.

**CHEM 5940 - Project Research**

**1-9 sem. hrs.** Student research on a project of interest. This variable credit hour course may be repeated in different semesters. Student may count up to six hours of CHEM 5940 toward the Chemistry Thesis Track or Professional Track with approval from the program coordinator. Graded CR/NC. Spring, Summer, Fall.

**CHEM 6302 - Current Trends in Chemistry**

**3 sem. hrs. (3:0)** The study and discussion of current topics and research efforts in chemistry. The course is intended to provide teachers with background and understanding that will enrich their classroom presentations in the chemistry curriculum. May be repeated for credit when topics vary. Offered on sufficient demand. no

**CHEM 6417 - Advanced Environmental Chemistry**

**4 sem. hrs. (3:3)** Advanced study of the impact of chemistry on the environment. Topics will include the chemistry of the natural environment and the modifications to that environment brought about by human activities. Includes readings in current literature
and research on an environmental issue. Includes a laboratory component. Prerequisite: CHEM 1412.

**CHEM 6421 - Aquatic Chemistry**

4 sem. hrs. (3:3) A study of the chemistry of natural and polluted waters. Topics include chemical kinetic and equilibrium principles as applied to natural and polluted waters, and the ecotoxicological aspects of aquatic chemistry. In addition, critical readings in current literature and research on environmental issues will be discussed. Includes a laboratory component.

**CHEM 6431 - Environmental Instrumental Analysis**

4 sem. hrs. (3:3) A presentation of standard instrumental tools and instrumental methods used for the characterization of environmental pollutants and their distribution in the environment. Includes a laboratory component.

**CHEM 6490 - Advanced Topics**

1-4 sem. hrs. (1:0-3:2) Subject materials variable. Advanced topics including current literature research. May be repeated for credit when topics are sufficiently different. Prerequisite: Permission of instructor.

**CHEM 6596 - Directed Independent Study**

1-5 sem. hrs. Study in areas of current interest. (A total of six hours of Directed Independent Study may be counted toward the MS degree.)

**Coastal and Marine System Science**

**CMSS 5340 - Ocean Resources**

3 sem. hrs. 3:0

Investigation of topics related to the discovery, distribution, and exploitation of marine resources of the ocean with a focus on the Gulf of Mexico, including the impact of resource exploitation on biological systems, and the development of marine policy. Usually offered in Fall of odd years.
CMSS 5392 - Thesis I: Thesis Proposal

3 sem. hrs. 3:0 Thesis students must submit a completed proposal for their thesis project. A course section will be created for the student to enroll. Upon successful completion and submission of the proposal signed by the graduate committee of the student, students may then register for CMSS 5393 Thesis Research. Open only to M.S. Thesis Degree Candidates in CMSS. Fall, Spring, Summer.

CMSS 5393 - Thesis II: Thesis Research

3 sem. hrs. 3:0 Implementation of the Thesis Proposal, and the production of a rough draft of the thesis submitted to the graduate committee of the student for initial editing and comment. A course section will be created for the student to enroll. CMSS 5392 Thesis Proposal. Fall, Spring, Summer.

CMSS 5394 - Thesis III: Thesis Submission

3 sem. hrs. 3:0 Completion of the final draft of the thesis, signed by the graduate committee of the student and ready for binding and distribution. A course section will be created for the student to enroll. CMSS 5393 Thesis Research. May be taken concurrently with CMSS 5393 Thesis Research.

CMSS 5596 - Directed Independent Study

1-5 sem. hrs. Study in areas of current interest. A total of six semester hours of Directed Independent Study may be counted towards the CMSS M.S. degree. Fall, Spring, Summer.

CMSS 5940 - Thesis Project Research

1-9 sem. hrs. 1:0-0:18 Research related to the CMSS M.S. thesis project. Open only to M.S. students in CMSS with consent of the graduate advisor. Up to six hours may count as credit toward regular graded (non-research, non-variable credit) elective coursework for M.S. degree requirement in Coastal and Marine System Science.

CMSS 6102 - Seminar in Coastal and Marine System Science

1 sem. hrs. Advanced topic study and presentation by students, faculty, or visiting scientists. Meets one hour weekly. Must be taken three times by all PhD students. Must be taken three times by all PhD students. Usually offered every Fall.

CMSS 6303 - Natural Systems Analysis
3 sem. hrs. (3:0) Statistical analysis for data collected in several variables. Topics include sampling from multivariate normal distribution, multivariate analysis of variance, discriminant analysis, principle components, and factor analysis. Prerequisite: MATH 6315 - Statistical Methods in Research I, undergraduate equivalent, or consent of instructor. Usually offered every Fall.

CMSS 6305 - Natural Systems Modeling

3 sem. hrs. (3:0) Modeling and analysis of deterministic and stochastic dynamical systems, including investigation of model behavior and stability. Theory will be applied to research natural environmental and biological systems such as multi-species systems, carbon circulation in the biosphere, Nutrients-Phytoplankton-Zooplankton models, etc. Prerequisites: MATH 5315 Statistical Methods in Research I and MATH 5316 Statistical Methods in Research II, or permission of instructor. Usually offered every Spring.

CMSS 6307 - Coastal and Marine Systems

3 sem. hrs. 3:0

Description of coastal and oceanic ecosystems to provide an overview of the fundamental concepts of the abiotic and biotic components, physical-chemical processes, and interactions with environmental and human systems. Usually offered every Spring.

CMSS 6308 - Coastal Geoenvironments and Change

3 sem. hrs. (3:0) Investigations of the origin, character, and processes of coastal geoenvironments with an emphasis on tracking historical and projecting future changes, including examination of the interactions of geological and biological processes and impacts of human activities on coastal depositional systems.

CMSS 6323 - Experimental Design

3 sem. hrs. (3:0) Fundamental concepts of mathematical ecology and the design and analysis of environmental experiments. Students learn SAS programming and procedures to compute ecological metrics, data management techniques, exploratory analysis, power, sample size, checking assumptions, and analysis of variance models to compute a priori and post hoc hypothesis tests. Prerequisite: Math 5315 Statistical Methods in Research I, undergraduate equivalent, or consent of instructor. Usually offered every Spring.

CMSS 6327 - Physical Oceanography
Succinct review of basic concepts of physical oceanography followed by general presentations and discussions in three selected areas: global ocean circulation, circulation along the Gulf of Mexico continental shelf, and ocean-atmosphere interaction and impacts on climate. A significant portion of the class is based on student guided reading assignments. Prerequisites: Direct interest in physical oceanography, background that includes introductory college physics and basic mathematical knowledge of calculus and simple differential equations, or approval of class instructor.

CMSS 6330 - Geospatial Analysis

Introduction and advanced usages of mapping datums, coordinate systems, and accuracy requirements for geographic information systems (GIS). Use of GIS tools to investigate statistical patterns and relationships among maps and geo-databases. Derivation of new maps and analysis based on spatial context, patterns, surface configuration, proximity, connectivity and flows. Prerequisites: MATH 5316 Statistical Methods in Research II; a working knowledge of ArcView and/or ArcGIS; or permission of instructor.

CMSS 6333 - Paleo Systems

Study of the interrelationships of ancient organisms and their environment through interpretation of the fossil record, analog communities, and oceanographic data, such as carbon and oxygen isotopes. Theories and methods of reconstructing terrestrial, marine and freshwater biotic communities and environments. Review of classic paleoecological and paleoceanographic studies as well as current research. Prerequisites: BIOL 3428 Principles of Ecology, GEOL 1401 Historical Geology, and ESCI 3351 Oceanography, or GEOL 4316 Marine Geoscience

CMSS 6334 - Geological Oceanography

Integrated examination of the geology and geochemistry of the marine environment. Evolution of ocean basins, continental margins and plate boundaries; geology of oceanic crust; controls on the types, origin, and distribution of marine sediments; and introduction to paleoceanography. Prerequisites: ESCI 3351 Oceanography, or GEOL 4316 Marine Geoscience, or permission of instructor. Usually offered in Spring of even years.

CMSS 6352 - Environmental Forecasting

Statistical techniques (classic and Bayesian) and new artificial intelligence based techniques, such as neural networks, for the analysis of environmental
systems with large datasets. Prerequisite: CMSS 6305. Usually offered in Fall of odd years.

CMSS 6357 - Global Geochemical Cycles and Change

3 sem. hrs. (3:0) Integrated examination of global-scale geochemical cycles operating within and between the four components of the Earth system (atmosphere, hydrosphere, biosphere, and solid Earth) and their role in the evolution of our planet. Prerequisites: CHEM 1411 General Chemistry I, CHEM 1412 General Chemistry II and CHEM 3411 Organic Chemistry I. Usually offered in Spring of odd years.

CMSS 6359 - Marine Ecosystem Dynamics

3 sem. hrs. (3:0) Investigation of the interactions between organisms and physical processes that regulate marine ecosystem functions. Usually offered every Fall.

CMSS 6362 - Global Change and Its Impact on Aquatic Ecosystems

3 sem. hrs. (3:0) This course will introduce students to the effects of climatic and anthropogenic change on aquatic ecosystem structure and function. Includes readings from the current literature and development of a research proposal. Usually offered in Spring of odd years.

CMSS 6370 - Coastal Management and Ocean Law

3 sem. hrs. (3:0) Intensive study of the 1972 National Coastal Zone Management Act and subsequent coastal management programs. The Texas program, which is administered by the General Land Office, will be dealt with in depth as the central focus of the course. Statutory law relating to citizen, state, and federal rights and duties as they impact coastal and maritime law will be studied including applicable Texas real property law. Students will use case law studies relating to those rights and duties and Public Trust Doctrine cases to gain an integral part of understanding the responsibilities of governments and rights of citizens. Usually offered every Fall.

CMSS 6372 - Environmental Sustainability Economics

3 sem. hrs. (3:0) This course will introduce the fundamental concepts of neoclassical microeconomics and ecological economics and apply them to environmental and sustainability issues. Usually offered in Fall of even years.

CMSS 6401 - Mathematical Concepts for System Science
4 sem. hrs. (3:3) Course focused on calculus, linear algebra, and differential equations used in coastal, marine, and environmental settings. The course is designed for entering doctoral students in the CMSS program as well as other interested science graduate students of the College of Science and Engineering. Course concepts are approached within the context of coastal and marine systems. Prerequisites: Introductory Statistics MATH 1342 or 1442 and Calculus I MATH 2413, or equivalents, or permission of instructor.

CMSS 6590 - Advanced Topics

1-5 sem. hrs. (1:0-3:4) An advanced study of an environmental systems topic. May be repeated with full credit in another area of environmental systems.

CMSS 6596 - Directed independent Study

1-5 sem. hrs. Study in areas of current interest. A total of six semester hours of Directed Independent Study may be counted towards the Ph.D. degree.

CMSS 6996 - Research

1-9 sem. hrs. Independent research conducted under supervision of an advisor. Open to Coastal and Marine System Science students who have not yet passed the qualifying exam and with consent of their graduate advisor. The course is graded with an S or U, and may be repeated.

CMSS 6998 - Dissertation Research

1-9 sem. hrs. Research related to Ph.D. dissertation project. Open only to degree candidates having passed the qualifying exam in Coastal and Marine System Science with consent of their graduate advisor. The course is graded with an S or U, and may be repeated.

CMSS 6999 - Dissertation Defense

3-9 sem. hrs. Open only to degree candidates in Coastal and Marine System Science with consent of their graduate advisor. Students should enroll in this course during the last semester of the CMSS PhD program. To successfully complete this course the student must pass the dissertation defense as well as have a final copy of the dissertation signed by the full graduate committee and approved for binding and distribution. A course section will be created for the student to enroll. A grade of Credit/No Credit will be assigned for the class with the possibility to assign the grade of IP or In Progress. If a
grade of IP is assigned, the course must be repeated the following semester(s) until the course is passed.

**Communication**

**COMM 5301 - Introduction to Communication Scholarship**

3 sem. hrs. This is a practical introduction to scholarship in the Communication discipline with emphasis in: reading and understanding academic source material; finding source material in scholarly literatures; writing academic research papers; editing and revising your own work; and presenting scholarship. Completing this course will prepare you to think, write, and present ideas as an advanced scholar in the Communication discipline.

**COMM 5302 - Seminar in Communication Theory**

3 sem. hrs. This course represents an advanced treatment of theory in the Communication discipline. Theoretical traditions and theories discussed in this course are used by scholars to explain and/or interpret communication processes in such areas as interpersonal, intercultural, organizational, and media settings.

**COMM 5303 - Research Methodology**

3 sem. hrs. This course is designed as an intellectual and practical introduction to communication research at the graduate level, including epistemological, intellectual, and practical issues associated with qualitative, quantitative, and critical methods research.

**COMM 5304 - Cultural Studies**

3 sem. hrs. This course examines theoretical approaches to cultural studies; focus on interdisciplinary research of media audiences and covering a range of methods and theoretical frameworks; concentration varies.

**COMM 5306 - Instructing and Consulting**

3 sem. hrs. This course will draw upon academic research in instructional communication to provide a foundation for aligning the instructional skills and knowledge necessary for achieving organizational strategic goals and objectives.

**COMM 5307 - Communication and Organizations**
3 sem. hrs. This course surveys traditional and contemporary readings in organizational communication. Readings cover such topics as the relationship of communication and organizational structure, process, stakeholders, leadership, decision making, culture, and identity.

COMM 5308 - Communicating Leadership

3 sem. hrs. This course focuses on the process of influence that takes place through communication to achieve goals or to produce change from a collective of people. This course will include instruction on the various approaches to leadership, process of leadership, and the role that leadership plays in a variety of contexts.

COMM 5309 - Seminar in Interpersonal Communication

3 sem. hrs. This seminar focuses on terminology, key theories, and functions of interpersonal communication as it pertains to the formation and maintenance of relationships.

COMM 5310 - Seminar in Intercultural Communication

3 sem. hrs. This course explores the relationship between communication and culture through scholarly readings, discussions, and critiques in three subfields of Intercultural Communication: cultural communication, cross-cultural communication, and intercultural communication.

COMM 5311 - Seminar in Persuasion Theory

3 sem. hrs. This course investigates traditional and contemporary theories of persuasion and is an in-depth study of the major concepts of persuasive communication.

COMM 5312 - Seminar in Gender Communication

3 sem. hrs. This seminar focuses on terminology, key theories, and cutting-edge research within the study of gender communication.

COMM 5314 - Small Group Decision Making

3 sem. hrs. This course will focus on the theory and practice of small group decision making, by considering both effective work groups and small groups that have made faulty decisions.

COMM 5315 - Family Communication
**3 sem. hrs.** Overview of theory and research on communication in the family. Content focuses on definitions, frameworks, perspectives, theories, and outcomes tied to the study of communication processes within the family.

**COMM 5330 - International Leadership**

**3 sem. hrs.** Introduces graduate and advanced students to the study of leadership in international and intercultural settings with the emphasis on the context of mediated communication.

**COMM 5331 - Seminar in Nonverbal Communication**

**3 sem. hrs.** This seminar will educate students about the history, key theories, types and functions of nonverbal communication, or message with words.

**COMM 5335 - Advanced Crisis Communication**

**3 sem. hrs.** Examines crisis communication from the perspective of academic researchers and practitioners. Includes the analysis of crisis communication research, reviews the elements of an effective crisis communication plan, and centers on case study analysis of best and worst practices in crisis planning, prevention, and response.

**COMM 5340 - Public Relations Theory**

**3 sem. hrs.**

A discussion of theories of excellence in public relations and crisis communication through the exploration of models, roles, communication, media, ethics, and culture to serve as a foundation for professional practice.

**COMM 5346 - Seminar in New Media**

**3 sem. hrs.** Explores contemporary instances of new and emerging media platforms, especially as facilitated through digital media technologies, as they continue to disseminate more widely as portals of communication. Students will engage with specific issues in new media through the lenses of various cultural theories in order to gain a greater understanding of the scope of new media, its culture, and the relationships that exist between machines and humans, as well as those between society and technology.

**COMM 5390 - Special Topics in Communication**
**COMM 5394 - Seminar in Communication**

1-3 sem. hrs. In-depth study of various topics within communication. Offers students opportunities to expand knowledge learned in other courses. Approval of advisor required. Students in the comprehensive track register for course the semester when exams are given, and are graded "credit" ("pass") or "no credit" ("fail").

**COMM 5395 - Thesis**

3 sem. hrs. The thesis is independent research under the direction of a student's graduate committee, and to result in a completed thesis project, it should be taken in two separate semesters for a total of 6 credit hours dependent upon thesis proposal. Prerequisite: Approval of a student's Faculty Mentor. Grade assigned will be "credit" (CR) or "no credit" (NC).

**COMM 5396 - Individual Study**

1-3 sem. hrs. This Individual Study course is designed to provide inquiry and research opportunities in an area of special interest otherwise not available in course offerings. Two individual study courses may be applied toward the degree with the approval of the student's Faculty Mentor.

**COMM 5399 - Internship**

3 sem. hrs. Practical experience in the communication field through placement in an organization. By application only and approval of the internship coordinator. Prerequisites: Completion of at least 18 graduate hours in communication. Only 3 hours of internship may apply for the major and with internship credit, the hours outside the program that can be counted toward the major decreases to 3 hours.

**Computer Science**

**COSC 5305 - A Survey of Computer Software Packages**

3 sem. hrs. (3:0) A concentrated study of selected software packages. (Does not count toward total hours required for MS in Computer Science.) Fall.
COSC 5306 - Introduction to Programming Principles

3 sem. hrs. (3:0) Addresses modern programming and provides students with experience in at least one primary high-level programming language. Students will experience solving problems using computer programming. Students will study the program development cycle, modular design, style, syntax and semantics. (This course is designed for non-computer science majors. Does not count toward total hours required for MS in Computer Science. Does not count as computer science foundation course.) Spring.

COSC 5308 - Foundations in Network Design and Management

3 sem. hrs. (3:0) A broad-based introduction to the fundamentals and all major aspects involved in planning, implementing and managing a local area network (LAN). Both logical and physical LAN technologies are covered including media options, physical topologies, network architectures and communication protocols. Functions of network operating systems are studied and compared to current marketplace products. (Does not count toward total hours required for MS in Computer Science.) Fall.

COSC 5311 - Foundations in Programming and Problem Solving I

3 sem. hrs. (3:0) A concentrated introductory programming course at the graduate level. Intended for students with little background in computer science who wish to program a computer in support of research or other academic interests. (Does not count toward total hours required for MS in Computer Science.) Fall, Spring.

COSC 5312 - Foundations in Programming and Problem Solving II

3 sem. hrs. (3:0) A continuation of COSC 5311 completing the syntax of the language used as the programming tool in COSC 5311. An introduction to data structures in multiple computing platforms. (Does not count toward total hours required for MS in Computer Science.) Prerequisite: COSC 5311. Fall, Spring, Summer.

COSC 5313 - Foundations of Computer Organization and Architecture

3 sem. hrs. (3:0) A study of internal computer concepts with respect to the functioning of the hardware subsystems and their roles in the computing process. An in-depth study of machine and assembly language. (Does not count toward total hours required for MS in Computer Science.) Prerequisite: COSC 5311 or Permission of Instructor. Fall, Spring.

COSC 5320 - Design and Implementation of Computerized instructional Systems
3 sem. hrs. (3:0) Provides a broad introduction to the development of computer-based learning environments. Covers the theory and practice of using the computer both in the classroom and individually for learning. Covers a wide range of possibilities from multimedia presentation of material to constructive environments and computer-based instructional systems. Prerequisite: Permission of the Instructor. (Does not count toward total hours required for MS in Computer Science.) Summer.

COSC 5321 - Data Structures

3 sem. hrs. (3:0) A study of the logical structures used for the organization, storage and retrieval of data. These structures are addressed from both memory-resident and file-resident points of view. Algorithms for the creation, searching, and manipulation of standard data structures used in computing are stressed. (Does not count toward total hours required for MS in Computer Science.) Prerequisite: COSC 5311. Co-requisites: MATH 2305, COSC 5312. Fall, Spring.

COSC 5325 - Foundations of Software Engineering

3 sem. hrs. (3:0) This graduate course provides students with a foundation of software engineering introducing fundamental principles of the development and maintenance of quality software. Students learn various methodologies used in all phases of the software life cycle. Topics include software life cycle models, software process, analysis, design, and implementation. Prerequisite: COSC 5321 or equivalent. (Does not count toward total hours required for MS in Computer Science.)

COSC 5327 - Introduction to Computer Graphics

3 sem. hrs. (3:0) This graduate course provides students with a foundation in 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: graphics hardware, rendering, perspective, lighting, and geometry.

COSC 5328 - Advanced Computer Graphics

3 sem. hrs. (3:0) This course covers advanced computer graphics techniques. Students will be introduced to state-of-the-art methods in computer graphics. This course will focus on techniques for real-time rendering and animation. Prerequisite: COSC 4328 or COSC 5327 or equivalent. Spring.

COSC 5330 - Programming Languages
3 sem. hrs. (3:0) A study of the classification, design and structure of programming languages. Data, control, and modular abstraction facilities are considered for a variety of languages. Prerequisites: COSC 5331 and MATH 2305. Spring.

COSC 5331 - Foundations of Computer System Software

3 sem. hrs. (3:0) Introduction to operating systems concepts, principles, and design. Topics include: processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, security and protection, networking, and distributed systems. Selected existing operating systems are discussed, compared, and contrasted. (Does not count toward total hours required for MS in computer science.) Prerequisite: COSC 5313. Co-requisite: COSC 5321.

COSC 5334 - Design and Analysis of Algorithms

3 sem. hrs. (3:0) An advanced course that concentrates on the design and analysis of algorithms used to solve a variety of problems. The methods of design covered include such topics as: divide-and-conquer, the greedy method, dynamic programming, search and traversal techniques, and backtracking. Prerequisites: COSC 5321, MATH 2413, and MATH 2305. Spring.

COSC 5335 - Foundations of Databases

3 sem. hrs. (3:0) A study of fundamental database system concepts, terminology, management, and methodology for design and implementation. Commercially available systems are discussed and used with emphasis upon the relational model. Proper application design techniques are stressed. (Does not count toward total hours required for MS in computer science.) Prerequisite: COSC 5312. Co-requisite: COSC 5321. Fall.

COSC 5336 - Database Management Systems

3 sem. hrs. (3:0) A study of contemporary database management concepts. Performance (indexing, query optimization, update optimization), concurrency, security and recovery issues are discussed. Also includes the study of front-end environments that access the database. Prerequisites: COSC 5335 and COSC 5321. Spring.

COSC 5340 - Human-Computer Interaction

3 sem. hrs. (3:0) Graduate-level survey of the field of Human-Computer Interaction (HCI) focusing on design strategies for making software usable by real-world people for doing real-world work. Topics include the role of HCI in the software product life cycle, task analysis of the user’s work, architectures for human-computer dialogues, new and
traditional approaches to user interface design, and user interface standards. Prerequisite: COSC 5331. Spring.

**COSC 5345 - System Simulation and Modeling**

_3 sem. hrs. (3:0)_ A study of the simulation and modeling of selected continuous and discrete systems. Prerequisites: COSC 5311, MATH 2413, and MATH 3342. Spring.

**COSC 5348 - Expert Systems**

_3 sem. hrs. (3:0)_ The overall goal of the course is to give the student the ability to design and program small expert systems while building a base for advanced study. Topics include programming techniques for expert systems, the design and construction of expert systems, the representation of knowledge, methods of inference, reasoning under uncertainty, inexact reasoning, classification, configuration, and diagnostic systems. Prerequisite: COSC 5321. Spring.

**COSC 5350 - Advanced Topics in DBMS**

_3 sem. hrs. (3:0)_ The study of emerging database technologies. Topics are chosen from data warehousing, distributed databases, spatial databases and web-based applications. Prerequisites: COSC 5336. Offered on sufficient demand.

**COSC 5351 - Advanced Computer Architecture**

_3 sem. hrs. (3:0)_ An overview of computer architecture, which stresses the underlying design principles and the impact of these principles on computer performance. General topics include design methodology, processor design, control design, memory organization, system organization, and parallel processing. Prerequisite: COSC 5331. Fall.

**COSC 5352 - Advanced Operating Systems**

_3 sem. hrs. (3:0)_ Introduction to advanced concepts in operating systems and distributed systems. Topics include distributed system architectures, interprocess communication, distributed mutual exclusion, distributed synchronization and deadlock, agreement protocols, distributed scheduling and process management, distributed shared memory, distributed file systems, multiprocessor system architectures and operating systems, recovery and fault tolerance. Prerequisite: COSC 5331 or an equivalent undergraduate course in Operating Systems.

**COSC 5353 - Compiler Design and 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 5330 and MATH 2305. Fall.

**COSC 5354 - Artificial Intelligence**

Fundamental concepts and techniques for the design of computer-based, intelligent systems. Topics include: a brief history, methods for knowledge representation, heuristic search techniques, programming in LISP or Prolog. Prerequisite: COSC 5321 and MATH 2305. Fall.

**COSC 5355 - Data Communications and Networking**

Areas studied include principles of computer-based communication systems, analysis and design of computer networks, and distributed data processing. Prerequisite: COSC 5331. Fall.

**COSC 5356 - Theory of Computation**

An introduction to theoretical foundations of modern computing. Topics include finite state machine concepts, formal grammars, and basic computability concepts. Prerequisites: COSC 5321 and MATH 2305. Summer.

**COSC 5357 - Wireless Sensor Networks**

This is a graduate level course on wireless sensor networks; one of the fastest developing areas in computer science and engineering. The focus of this course is on the design of optimized architectures and protocols for such unique networks. Topics include the design principles of wireless sensor networks, energy management, MAC protocols, naming and addressing, localization, routing protocols, applications of wireless sensor networks, and associated challenges and measures.

**COSC 5360 - Parallel Computing**

Introduction to the hardware and software issues in parallel computing. Topics include motivation and history, parallel architectures, parallel algorithm design, and parallel performance analysis. Students will be introduced to a variety of parallel computing paradigms including message passing systems and shared memory systems. Prerequisite: COSC 5331.

**COSC 5361 - Parallel Algorithms**
3 sem. hrs. (3:0) Introduces and evaluates important models of parallel and distributed computation. Topics include a selection of parallel algorithms for various models of parallel computation, combinational circuits, parallel prefix computation, divide and conquer, pointer based data structures, linear arrays, meshes and related models, and hypercubes. Prerequisites: either COSC 5360 or an equivalent undergraduate course in Algorithms.

COSC 5362 - Mobile Software Development

3 sem. hrs. 3:0

Survey of software development on mobile platforms including both native and cross-platform applications with topics such as: prototyping, programming, testing, debugging, and deploying. Coverage of software life cycle on mobile platforms and how mobile hardware differs from traditional computers. COSC 5321

COSC 5365 - Current Trends in Programming

3 sem. hrs. 3:0

This is a survey of current trends in computer programming. The focus of this course is on the development of computer programs utilizing the latest technologies and paradigms. Topics include state-of-the-art in problem solving and software development, programming techniques and approaches, programming languages, development tools and environments, and software deployment methods. COSC 5321

COSC 5370 - Advanced Software Engineering

3 sem. hrs. (3:0) Areas studied include engineering principles and their application to the design, development, testing, and maintenance of large software systems, tools and processes for managing the complexities inherent in creating and maintaining large software systems. Prerequisite: COSC 5321 or equivalent. Fall.

COSC 5374 - Computer Forensics

3 sem. hrs. (3:0) This course will introduce students to the fundamentals of computer forensics and various software tools used in cyber-crime analysis. Students will be introduced to established methodologies for conducting computer forensic investigations, as well as to emerging international standards for computer forensics. Applicable laws
and regulations dealing with computer forensic analysis will also be discussed. Prerequisite: COSC 5312. Spring.

COSC 5375 - Information Assurance

3 sem. hrs. (3:0) An introduction to information security and assurance. This course covers the basic notions of confidentiality, integrity, availability, authentication models, protection models, secure programming, audit, intrusion detection and response, operational security issues, physical security issues, personnel security, policy formation and enforcement, access controls, information flow, legal and social issues, classification, trust modeling, and risk assessment. Prerequisite: COSC 5312 or approval of the Instructor. Fall.

COSC 5376 - Network Security

3 sem. hrs. (3:0) This course is a study of networking basics and security essentials with respect to information services provided over a computer network. The course covers the technical details of security threats, vulnerabilities, attacks, policies, and countermeasures such as firewalls, honeypots, intrusion detection systems, and cryptographic algorithms for confidentiality and authentication and the development of strategies to protect information services and resources accessible on a computer network. Prerequisites: COSC 5375 and approval of the Instructor. Spring.

COSC 5377 - Applied Cryptography

3 sem. hrs. (3:0) This course includes an introduction to cryptographic algorithms and protocols for encrypting information securely, techniques for analyzing vulnerabilities of protocols, approaches to digital signatures and information digests, and implementation approaches for the most significant cryptographic methodologies. Prerequisite: COSC 5312 or approval of the instructor. Fall.

COSC 5379 - Advanced Information Assurance

3 sem. hrs. (3:0) This course encompasses a broad range of topics involving information security, communications security, network security, risk analysis, operational security, health information privacy, criminal justice digital forensics, homeland security, the human element and social engineering, and applicable national and international laws. An in-depth information assurance capstone project or research paper will be required of each student to satisfy the information assurance graduate option requirements. Prerequisites: COSC 53756. Fall.

COSC 5393 - Research Methods in Computer Science
**3 sem. hrs. (3:0)** This course provides students with a range of experiences in conducting and communicating research. Students will learn major research methods and techniques. Experiences will be gained in all stages of research: reviewing literature, writing a proposal, designing an approach, and reporting results. Critical-reading/writing assignments and class discussions on state-of-the-art research in Computer Science will provide students with major research aspects. Spring

**COSC 5395 - Graduate Project and Technical Report**

**3 sem. hrs. (3:0)** An applied research project in computing from problem definition to implementation in an area of particular interest to the student that relates to the course of study. Prerequisites: COSC 5370, COSC 5393 and formal approval of graduate project proposal. Offered on credit/no-credit basis only, with grade of IP until completed. Credit will not be recorded until technical report is accepted by the Graduate Project Committee. (See graduate project procedure under MS degree requirements.) Fall, Spring, Summer.

**COSC 5396 - Directed Independent Study**

**3 sem. hrs.** Study in areas of current interest. (A maximum of six hours may be counted toward the MS degree.) Fall, Spring, Summer.

**COSC 5398 - Thesis I**

**3 sem. hrs.** This course is for Computer Science MS students choosing the thesis option. Upon choosing a thesis advisor, students will register for this course. This course is only credit/no credit. Students will be given a grade of In-Progress until successfully completing their thesis. Prerequisites: COSC 5393 and permission of instructor.

**COSC 5399 - Thesis II**

**3 sem. hrs.** This course is for Computer Science MS students choosing the thesis option. Students will continually register for this course until successful completion of their thesis. A grade of In-Progress will be assigned until either successful completion or failing to register. If failing to register students will receive a grade of No Credit for all 5399 and 5398 courses. Prerequisite: COSC 5398.

**COSC 5590 - Selected Topics**

**1-5 sem. hrs.** Variable content study of specific areas of computer and information systems. May be repeated for credit when topics vary. Offered on sufficient demand.

**COSC 5999 - Advanced Research in Computer Science**
1-9 sem. hrs. Advanced work in a specialized area of computer science. Does not count as credit toward a degree in computer science. Course is taken as credit/non-credit. Prerequisite: Approval of the Instructor.

Counseling and Educational Psychology/Counselor Education

CNEP 5304 - Introduction to Counseling

3 sem. hrs. This course is an orientation to the profession of counseling, its history, professional standards, code of ethics, credentials, areas of specialization, and the development of skills necessary to create a helping relationship. It covers the counselor’s professional identity in a variety of settings and roles. Opportunities are provided for students to discover through self-awareness their suitability for the helping profession.

CNEP 5306 - Career Counseling

3 sem. hrs.
Classic and contemporary theories of career counseling development, career counseling issues throughout the lifespan, use of career/occupational testing and computer-assisted guidance systems, sources of educational and occupational information, and career and lifestyle trends. Career services in various settings will be discussed. Multicultural issues and needs of special populations will be presented.

CNEP 5308 - Counseling Theories

3 sem. hrs.
This course provides an overview of the major theories and techniques in counseling. Each theory is presented with its historical development, key concepts, therapeutic process, and application for appropriate counseling intervention. The focus is to help students begin to develop a personal model of counseling. The course also addresses basic issues in counseling practice, standards of preparation, legal considerations, certification, and licensure.

CNEP 5310 - Career and Vocational Assessment

3 sem. hrs. A course designed to provide educational diagnosticians and counselors with the knowledge and skills required to choose, administer and interpret aptitude, interest and other appropriate instruments used in making career and vocational decisions.
CNEP 5312 - Addictions Counseling

3 sem. hrs. This course is designed to provide students with an understanding of addictions treatment and the counseling dynamics involved, as well as the significance and impact of addictions within our society. Students will investigate physiological, emotional, social, and physical aspects related to addictions. Students will examine specific treatment strategies applicable to the biopsychosocial issues related to addictions, as well as current ethical and professional issues in the field.

CNEP 5313 - Theories and Techniques in Substance Abuse Counseling

3 sem. hrs. This course is designed to provide students with a framework to assess and treat clients with addictive disorders. This course will cover advanced strategies and techniques for working with issues of substance abuse addiction. Students are given the practical application of managing a client’s case from initial diagnosis through discharge and aftercare. In addition, the student will explore the relatedness of these strategies with current ethical and professional issues in the field.

CNEP 5314 - Theory and Practice of Multicultural Counseling

3 sem. hrs.

A course designed to familiarize students with the cultural differences of special populations of people. Emphasis on ethical use of appropriate counseling techniques for use with the major racial/ethnic groups and other special populations of people such as those who are physically or emotionally disabled, older, of different genders or of different sexual orientation.

CNEP 5315 - Responsive Services in Schools

3 sem. hrs.

This course is designed to train school counseling students to design, implement, and evaluate developmentally appropriate responsive services consistent with state and national models of the comprehensive developmental guidance program. The emphasis of
this course is on the acquisition of knowledge and skills related to the development and considerations of crisis planning, with an emphasis on providing prevention, intervention, and postvention strategies for students.

CNEP 5316 - Developmental School Counseling

**3 sem. hrs.** This course is designed to provide students with an understanding of the planning, design, implementation, and evaluation of comprehensive, developmental school counseling programs. The course includes student collaboration with existing school counseling programs to facilitate student professionalism and competence in consultation, strategy selection and implementation, program delivery, and community referral. This course is a requirement for eligibility to take the TExES school counselor examination.

CNEP 5317 - Play Therapy: a Counseling intervention

**3 sem. hrs.** This course is designed for the purpose of studying the theory, techniques, and issues related to counseling children using play therapy. The class will consist of lecture, group discussion, video presentations, experiential activities and case studies. Designed for both school and community counselors.

CNEP 5318 - Consultation in School Settings

**3 sem. hrs.** This course is designed to train school counseling students to provide indirect services to children and adolescents through effective consultation with parents, teachers, administrators and external referral sources. The emphasis of the course is on the acquisition of skills that follow a logical consultation model. The course has a didactic and experiential learning component. Students will become sensitized to socio-cultural diversity issues as they impact consultation, and to the ethical and legal issues pertaining to working in the schools. Current research will be used to guide the consultation process.

CNEP 5319 - Introduction to Clinical Mental Health Counseling

**3 sem. hrs.** Research, identification, and design of systemic models of prevention and intervention that foster the healthy development of individuals in school and community settings. Focus will be both on assessment and implementation of culturally respectful approaches that invite collaboration with the family, school, community, and other contextual resources of children, adolescents, and adults.
CNEP 5320 - Introduction to Marriage, Couple, and Family Counseling

3 sem. hrs. An introduction to marriage, couple, and family counseling through an overview of major theoretical models including history of the field, key concepts, family counseling process, and family structures and function. Course topics include professional, legal, ethical, and diversity issues.

CNEP 5321 - Advanced Strategies in Process Addictions and Substance Abuse

3 sem. hrs. This course covers process addictions as well as advanced strategies in treating process and substance abuse addictions. Assessment, interview strategies, multicultural issues, and treatment strategies will be addressed. Prequisites: CNEP 5312 - Addictions Counseling and CNEP 5313 - Theories and Techniques in Substance Abuse Counseling.

CNEP 5322 - Strategies in Family Counseling

3 sem. hrs. Course will focus on clinical applications of major theoretical models of family counseling by acquiring skills in family systems assessment, strategy selection, and demonstration of therapeutic interventions. Prerequisite: CNEP 5320.

CNEP 5323 - Counseling for Holistic Wellness

3 sem. hrs. This course provides an introduction and critical review of contemporary theory and research in models of holistic wellness including consideration of experiential and interventions that address lifestyle variables. The course also discusses the role of the professional counselor as interventionist in a variety of applied settings in assisting clientele in moving toward optimal health (not just absence of illness), through an integration of physical, psychological, social, spiritual and personal choice components of physical health and lifestyle management.

CNEP 5324 - Counseling Couples

3 sem. hrs. This course is designed to familiarize students with intimate relationships, marriage and the assessment and treatment of couple relationships. Topics include sexuality, societal trends, roles, gender, diversity, premarital counseling, and preventive approaches. Pre-requisite: CNEP 5384

CNEP 5326 - Family Counseling with Children and Adolescents

3 sem. hrs. Course content will facilitate understanding of parent-child interactional patterns across the life cycle and development of educational and therapeutic strategies to
prevent and/or treat difficulties in the parent-child relationship. Topics include assessment issues, children and teens in larger contexts, developmentally appropriate interventions, and special problems and populations.

**CNEP 5327 - Ethical and Legal Issues in Counseling**

3 sem. hrs. This course offers in-depth consideration of ethical and legal issues that affect the practice of counseling in clinical mental health counseling; marital, couple, and family counseling; addictions counseling; and school counseling settings. The course will assist students in understanding and formulating sound positions on a variety of major issues related to the field of counseling. Students are expected to be familiar with a variety of ethical codes as well as laws regulating the profession. In addition students will demonstrate the ability to use ethical decision-making models to think critically about and resolve ethical issues in a variety of situations.

**CNEP 5328 - Abnormal Human Behavior**

3 sem. hrs.
This provides an overview of the principles of understanding the dysfunction in human behavior and development. Students will learn how dysfunctional behavior manifests and factors that increase one's vulnerability to abnormal human behavior.

**CNEP 5329 - Cultural Immersion: Diversity of Spanish Speakers**

3 sem. hrs. This course addresses cultural issues in Spanish-speakers such as concept of family, authority and social organization, communication method, thought, formality of address and spirituality. This course will be offered both as an online course and a study abroad experience. Students who have an opportunity to travel may take this course when it is offered in a Spanish-speaking country.

**CNEP 5330 - Introduction to Counseling Spanish-Speaking Clients**

3 sem. hrs. This on-line course is an orientation to counseling clients in Spanish. Students will become familiar with terms to use to facilitate a session in Spanish. Professional counseling concepts include mental health, counseling techniques, communication skills, understanding and problem solving, goal setting, and consultation with other professionals.

**CNEP 5331 - Strategies and Interventions for Spanish-Speaking Clients**
3 sem. hrs. This online course provides training in mental health strategies and interventions in counseling. The focus is on theories and techniques appropriate with Spanish-speaking clients.

CNEP 5332 - Spanish-Speaking Internship I

3 sem. hrs. The Internship I experience requires a minimum of 100 clock hours of supervised counseling, including 50 hours of direct service with Spanish-speaking clients. Students will provide counseling to community members in the CNEP Counseling and Training Clinic or other designated location under faculty supervision.

CNEP 5333 - Spanish-Speaking Internship II

3 sem. hrs. The Internship II experience requires a minimum of 100 clock hours of supervised counseling, including 50 hours of direct service with Spanish-speaking clients. Students will provide counseling to community members in the CNEP Counseling and Training Clinic or other designated location under faculty supervision. Students who have an opportunity to travel complete Internship II clinical work in a study abroad program in a Spanish-speaking country

CNEP 5351 - Learning and Motivation


CNEP 5354 - Developmental Issues in Human Personality and Behavior

3 sem. hrs.

Major factors and conditions which are related to successful human adaptations including adult-child relations, personality defense mechanisms, developmental stages and abnormal behavior in addition to theories of personality. Social and Cultural foundations of personality development will also be covered.

CNEP 5361 - Group Counseling

3 sem. hrs. This course is designed to provide the student with both a theoretical and an experiential approach to group counseling dynamics and processes. Group leadership skills and group membership skills will be emphasized as well as theoretical applications.

CNEP 5364 - Advanced Group Counseling
3 sem. hrs. Advanced techniques and activities for students who have had at least one course in groups or who have group counseling experience. Prerequisite: CNEP 5361.

CNEP 5365 - Stress Management and Integrated Wellness

3 sem. hrs. This is a course designed to teach practical skills for managing stress and integrating wellness practices into the daily lifestyle. Students will be exposed to current knowledge base and experiential best practices for identifying stressors in their environment and developing strategies for their personal and client use.

CNEP 5366 - Introduction to Clinical Hypnosis

3 sem. hrs. This course is designed to teach the following: history, and definition of hypnosis; myths; signs of trance; principles of suggestion; simple induction procedures; specific applications of hypnosis in private and school related issues.

CNEP 5371 - Psychometrics

3 sem. hrs. Covers functions of testing in education; educational and social issues related to testing and use of test results; theoretical aspects of psychometrics; selection of commercial standardized tests; and common commercial standardized tests.

CNEP 5374 - Individual intelligence Testing

3 sem. hrs. Testing, scoring, and interpretation procedures for the Wechsler scales.

CNEP 5375 - Clinical Mental Health Counseling Strategies

3 sem. hrs. This course provides students with necessary exposure to counseling techniques and skills needed for students in the Clinical Mental Health program before proceeding to their practicum and internship experiences. Pre-requisite: CNEP 5384

CNEP 5381 - Psychodiagnosis and Treatment Strategies

3 sem. hrs.

Psychodiagnosis and Treatment Strategies, covers types of human distress, as described in the Diagnostic and Statistical Manual of Mental Disorders, including the development of tools for the understanding and critical appraisal of abnormal human behavior across the life-span. Strategies and techniques for working with clients in a variety of settings are considered.
Prerequisites: A minimum of 12 semester hours of core counseling courses must be completed, including CNEP 5304, CNEP 5308, CNEP 5327, and CNEP 5328.

**CNEP 5384 - The Counseling Process**

3 sem. hrs.

Systematic procedures for establishing counseling objectives, conducting counseling interviews and utilizing results of counseling process. Includes the study of ethical and legal issues in the counseling profession.

Prerequisites: A minimum of 12 semester hours of core counseling courses must be completed, including CNEP 5304, CNEP 5308, CNEP 5327, and CNEP 5328. Must earn a grade of "B" or better to pass.

**CNEP 5390 - Professional Seminar**

1-3 sem. hrs. Contemporary issues in Counseling/Educational Psychology; topics vary with professional identification of participants. May be repeated when topics vary. Grade assigned will be “credit” (CR) or “no credit” (NC).

**CNEP 5397 - Practicum**

3 sem. hrs.

Practicum, 3 semester hours: A minimum of 100 clock hours of supervised counseling experiences, including 40 hours of direct service with clients. Clinical setting must be approved by the Clinical Coordinator and be appropriate to the student's emphasis. The semester prior to enrollment the student must complete the practicum application process.

Prerequisites: Students must have completed at minimum CNEP 5304, Introduction to Counseling; CNEP 5308, Counseling Theories; CNEP 5381, Psychodiagnosis and Treatment Strategies; CNEP 5384, The Counseling Process; CNEP 5327, Ethics Legal Issues; and CNEP 5328, Abnormal Human Behavior.

**CNEP 5399 - Specialized internship Experience**

3 sem. hrs. A supervised field experience in counseling and counseling-related activities. An internship application must be completed and submitted to the instructor. Grade assigned will be “credit” (CR) or “no credit” (NC).

**CNEP 5696 - Directed individual Study**
1-6 sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

CNEP 5698 - Internship

3 sem. hrs. A minimum of 600 clock hours of supervised counseling experiences, including 240 hours of direct service with clients. Clinical setting must be approved and appropriate to the student's emphasis. The semester prior to enrollment, the student must complete the internship application process. Grade assigned will be "credit" (CR) or "no credit" (NC). Prerequisites for Internship include successful completion of CNEP 5397, as well as designated emphasis courses: Addictions: CNEP 5312; Marriage and Family Counseling: CNEP 5320 or CNEP 5322; School Counseling: CNEP 5316; Clinical Mental Health: CNEP 5319. Grade assigned will be "credit" (CR) or "no credit" (NC).

CNEP 6305 - Advanced Theories in Individual and Group Counseling

3 sem. hrs. Historical, theoretical, legal, ethical, and philosophical foundations in counseling with an emphasis on counseling and cultural issues, change theory, systems, and theory efficacy. Overview of major counseling theories includes identifying one's personal theory. Projects include evaluation of theories with multicultural populations. Admission to doctoral program required for enrollment.

CNEP 6310 - Advanced Counseling Strategies

3 sem. hrs. In-depth study of various counseling strategies appropriate to the development levels of elementary, middle, and secondary school students, adults, couples, and families. Includes case conceptualization and efficacy of theories and treatment strategies of National and International crises, disaster, and other trauma-causing events, short term and intermediate intervention strategies and advocacy methods with at-risk and multicultural populations.

CNEP 6315 - Professional, Legal, and Ethical Issues

3 sem. hrs. Examination of professional, legal, ethical, topical, and political issues in the counseling profession. Includes focus on counselor's identity, relevant cultural concerns, and the counselor educators, role and responsibilities. Course material includes research writing projects and an Individual Development Plan (IDP).

CNEP 6316 - Research, Writing and Publishing in a Multicultural Society

3 sem. hrs. Study of the professional standards of writing, publishing and presenting proposals in a diverse society. Topics include a review of contemporary research on
diverse populations. Special emphasis is placed on student gaining knowledge and skill for conducting and communicating the results of scholarly inquiry through processes of editing, consultation and peer review processes.

**CNEP 6319 - Applications of Family Counseling in School and Community Settings**

**3 sem. hrs.** Research, identification, and design of systemic models of prevention and intervention that foster the healthy development of individuals in school and community settings. Focus will be both on assessment and implementation of culturally respectful approaches that invite collaboration with the family, school, community, and other contextual resources of children, adolescents, and adults.

**CNEP 6320 - Advanced Appraisal Techniques and Psychometrics**

**3 sem. hrs.** This class focuses on facilitating student skills in development, planning, implementation and evaluation of assessment and testing programs. Topics include critical evaluation of validity and reliability of standardized and non-standardized assessments. Emphasis is placed on design parameters, specific assessment measures, and their use in program evaluation.

**CNEP 6325 - Advanced Seminar in Career and Life Planning**

**3 sem. hrs.** The purpose of this course is to cover theory, research, and practice in the field of career counseling. The course will provide an in-depth review of career development theories, vocational assessment, occupational information, decision-making counseling, women’s career development, and vocational issues of people of color, as well as current theory, practice supervision and research in career counseling. Students are expected to enter the course conversant with the major theories of career development. This is an advanced seminar emphasizing theory and research.

**CNEP 6335 - Consultation Theory and Professional Advocacy**

**3 sem. hrs.** This course is designed to identify effective consultation approaches/styles and advocacy action planning. Students will acquire skills in assessing needs of counselors in training, developing programs and techniques for change, and program evaluation.

**CNEP 6345 - Knowledge Base Seminar in Counselor Education**

**3 sem. hrs.** This course provides doctoral students with the opportunity to demonstrate writing skills and research knowledge in Counselor Education. All major areas of study in counselor education (CACREP core areas) are emphasized. Doctoral students
complete a series of written examinations. All examination questions are assessed through a rubric. Doctoral students are expected to also verbally demonstrate their knowledge of the field of counseling and defend their responses. Participants will bring to class research papers and scholarly publications.

**CNEP 6350 - Advanced Clinical Supervision**

3 sem. hrs.

Study of counselor training and supervision with an exploration of the major theoretical/conceptual models and an overview of current trends and practices. Course includes didactic and applied experiences. Legal, ethical and multicultural issues and challenges in diverse settings are addressed, in addition to the purposes of clinical supervision and the role of the supervisor. Prerequisites: CNEP 6305, CNEP 6310.

Prerequisites: CNEP 6305, CNEP 6310.

**CNEP 6351 - Seminar: Current Counseling Topics**

3 sem. hrs. Study of the professional standards, current issues, and personal rewards associated with counseling. Includes research and discussion in special topics. Topics include the roles of racial, ethnic, and cultural heritage; nationality; socioeconomic status; family structure; age; gender; sexual orientation; religious and spiritual beliefs; occupation; physical and mental status; local, regional, national, international perspective; and equity issues in counselor education programs.

**CNEP 6355 - Leadership, Pedagogy and Diversity in Counselor Education**

3 sem. hrs. Study and exploration of issues of leadership, teaching, and diversity in counselor education. Emphasis is placed on leadership roles, instructional theory/methods, multicultural issues, and personal philosophy of teaching and learning.

**CNEP 6360 - Research Design and Statistics**

3 sem. hrs. This course is designed as a doctoral level survey of Research Design and Statistics. The major focus will involve an examination of the theoretical assumptions underlying various research designs and the use of inferential statistics. Special emphasis will be placed on the selection of appropriate design for specific applications in counseling and educational contexts. The course will involve both theoretical exploration and instruction on the use of computer-based statistical tools (SPSS).

**CNEP 6365 - Advanced Research & Design in Wellness and Stress Management Practices**
3 sem. hrs. Advanced skill development in designing programs and working with clients experiencing stress related disorders that impact the overall quality of their lives. A special emphasis will be placed implementation of design strategies for development and evaluating programs for improving performance and health.

CNEP 6370 - Advanced Quantitative Analysis

3 sem. hrs.

This course will focus on expanding each student’s knowledge of research design and statistical analysis beyond CNEP 6360 and EDLD 6392. Specific topics will include general linear model approaches to analysis of variance and regression analysis. Students will utilize SPSS to complete regularly assigned problems in order to demonstrate their competence. In addition, a special emphasis will be placed on the development of advanced quantitative skills needed to evaluate programs and student processes within a counselor educator model.

Prerequisite: CNEP 6360 Research Design and Statistics

CNEP 6372 - Seminar in Applications of Advanced Statistical Techniques and Evaluation Methodology

3 sem. hrs.

This research methodology course is designed to provide doctoral students with application experience in quantitative, qualitative and mixed-method data analytic procedures. Students will address promises and pitfalls using advanced univariate, multivariate, and non-parametric techniques introduced in CNEP 6360 and CNEP 6370. Students will act as consultants and evaluators on projects developed by student research teams in the department. This course is designed to help students address data analytic applications relevant to professional consulting, clinical and counseling practice as well as contexts involving program evaluation in a wide range of professional settings.

Prerequisites: CNEP 6320; CNEP 6360; CNEP 6370.

CNEP 6384 - Qualitative Research Design

3 sem. hrs. This course is experientially based on the philosophy, design, and practice of qualitative research. It is understood that participants have a solid background in methods (as defined by the positivist and post-positivist tradition) and statistics. Students will situate qualitative inquiry/research in their philosophical, theoretical, and historical situations, learn methods of qualitative design, and develop a capacity to collect, analyze, and interpret qualitative empirical materials.
CNEP 6390 - Professional Seminar.

3-6 sem. hrs. Special topics is an advanced study in an identified area of academic interest. May be repeated for credit when topics vary. Covers the knowledge base of the counseling profession.

CNEP 6395 - Doctoral Practicum

3 sem. hrs.

Provides/demonstrates professional counseling expertise with effective application of multiple counseling theories. Demonstrates case conceptualization and effective interventions across diverse populations and settings. The experience includes a minimum of 100 clock hours. Students will experience both the direct delivery of services, and weekly individual and group supervision. Opportunities for the evaluation of student’ counseling skills will be provided. Prerequisite or corequisite: CNEP 6350. Grade assigned will be "credit" (CR) or "no credit" (NC).

CNEP 6396 - Doctoral internship

3 sem. hrs.

Provides an intensive, supervised professional experience in approved counseling and counselor education settings. Two internship courses are required. Each internship consists of a total of 300 clock hours of experience. Students will plan and participate in a variety of experiences relevant to the work of counselor education, which may include supervision, teaching, research, direct counseling, and leadership, all under supervision. Prerequisite: CNEP 6395. Grade assigned will be "credit" (CR) or "no credit" (NC). Students repeat the internship for another 300 clock hours and another 3 semester hours of credit. Grade assigned will be "credit" (CR) or "no credit" (NC).

CNEP 6397 - Research Seminar

3 sem. hrs. This course focuses on the application of research skills and inquiry methods. Students will be exposed to various methodological approaches and the components of scientific inquiry. Attention also will be given to ethical and legal issues in research.

CNEP 6398 - Dissertation in Progress

1-3 sem. hrs. Completion of an approved research project under the supervision of a dissertation advisor. (Nine semester hour minimum.)
CNEP 6696 - Directed individual Study

1-6 sem. hrs. May be repeated when topics vary. Directed individual study is an advanced individual study for doctoral students through special permission of the Department Chair and faculty member.

Criminal Justice

CRIJ 5302 - Foundations of Criminal Justice

3 sem. hrs. Examination of the theoretical, philosophical, and historical foundations of the criminal justice system. Includes critical analysis of major criminal justice perspectives and models.

CRIJ 5310 - Seminar in the Judicial Process

3 sem. hrs. Study of selected topics that provide an understanding of the judicial process as it affects the entire criminal justice system. May be repeated when topics vary.

CRIJ 5320 - Correctional Theory and Policy

3 sem. hrs. Examination of the historical development of the rehabilitative ideal. Analysis of the theoretical and ideological foundations of correctional policy and practice.

CRIJ 5330 - Seminar in Juvenile Justice

3 sem. hrs. Historical development of the juvenile justice system. Analysis of procedures and problems at each stage of the process. Includes overview of delinquency causation, scope, and treatment.

CRIJ 5351 - Seminar in Criminal Justice Management

3 sem. hrs. Study of the supervision and management of criminal justice organizations. Consideration of planning and program evaluation as integral parts of management.

CRIJ 5380 - Issues in Justice Administration

3 sem. hrs. Analysis of contemporary issues in the administration of justice. Emphasis on key concerns of major system components. May be repeated when topics vary.
CRIJ 5396 - Individual Study

3 sem. hrs. Individual study, reading or research with faculty direction and evaluation. Offered on application to and approval of the program coordinator.

Early Childhood/Kindergarten Education

ECED 5301 - Involving Families and Communities in the Lives of Young Children

3 sem. hrs. The course will encompass a study of the contributions of national, state, and local agencies, referral services, and family involvement as these relate to the lives of young children.

ECED 5303 - Graduate Studies in Early Childhood Education

3 sem. hrs. An introduction to research studies in early childhood education and an analysis of their implications for the classroom teacher. Students will be able to engage in action research in early childhood classrooms.

ECED 5334 - Developmentally Appropriate Early Childhood Curriculum

3 sem. hrs. An intensive study of the principles of curriculum, which includes philosophy, organization, recognition of diversity, selection and evaluation of curriculum materials, and development of an early childhood education program.

ECED 5337 - Cultural, Linguistic and Economic Diversity and the Effect on the Lives of Young Children

3 sem. hrs. The course will address a study of the factors related to culturally, linguistically, and economically diverse young children. Issues related to these diverse issues will be explored and effective strategies for working with these children and their families will be explored.

ECED 5340 - Appropriate Formal and Informal Assessment of all Young Children

3 sem. hrs. Formal and informal assessment strategies and tools used in the assessment of young children will be studied. Current recommended assessment practices and research in early childhood education will be examined.

ECED 5346 - Capstone Research Proposal in Early Childhood Education
3 sem. hrs. The course will facilitate the development of the research based capstone experience proposal. The proposal must focus on some aspect of early childhood education. Prerequisite: Introduction to Research (EDFN 5301) or consent of instructor.

**ECED 5349 - Capstone Research Project in Early Childhood Education**

3 sem. hrs. Students will implement and complete their capstone proposal. This may be a thesis or project, focus on some aspect of early childhood education and culminate in a formal written paper.

**ECED 5390 - Professional Seminar**

1-3 sem. hrs. Contemporary issues in Early Childhood Education: topics vary with professional identification of participants.

**ECED 5397 - Practicum in Early Childhood Education**

3 sem. hrs. An opportunity to secure practical experience in early childhood classrooms and analyze those programs in terms of available research. A personalized culminating experience for the early childhood specialist. Grade assigned will be “credit” (CR) or “no credit” (NC).

**ECED 5696 - Directed individual Study**

1-3 sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

**Economics**

**ECON 5311 - Foundations in Economics**

3 sem. hrs. An intensive study for graduate students with limited or no academic experience in economics. Provides an introduction to economic principles, analysis and procedures used in graduate-level study. (This is a core course.)

**ECON 5315 - Managerial Economics**

3 sem. hrs. A graduate-level course in managerial micro economics focusing on the use of economic tools and concepts to assist managers in decision-making. Topics may include market demand and elasticity, demand estimation, production and cost functions,
marginal analysis under various forms of market structure and game theory. Prerequisites: ECON 5311 or equivalent.

**ECON 5320 - Health Economics and Policy**

*3 sem. hrs.* An analysis and evaluation of classical and modern economic theory, principles and procedures applicable to the health care delivery system and their implications for public policy. Prerequisites: ECON 5311 or equivalent/consent of instructor.

**ECON 5335 - International Economics**

*3 sem. hrs.* An analysis of why international trade takes place and how private agents react to changes in government policies. Determination of exchange rates, exports, imports, capital flows, employment, prices, interest rates, and economic growth are the focus of simple analytical techniques. Monetary and fiscal policies are also examined in an international macroeconomics context. Prerequisites: ECON 5311 or equivalent.

**ECON 5370 - Seminar**

*1-3 sem. hrs.* Seminar in an identified topic in economics. May be repeated for significantly different topics with written permission from the Director of Master's Programs. Prerequisite may vary depending on topic.

**ECON 5396 - Directed individual Research Or Readings**

*1-3 sem. hrs.* Contact Director of Master's Programs.

**Educational Administration**

**EDAD 5304 - Introduction to the Principalship**

*3 sem. hrs.*

This course serves as an orientation to learner-centered leadership and the A&M-Corpus Christi administrator preparation program. Course activities include an assessment of student potential for learner-centered leadership and the development of an initial personal educational platform. Based on active class participation and discussion of simulated and real issues, students will construct an individual growth plan while exploring principles of professional ethics. Doctoral students will complete a research
study on the best practices of the principalship. Students who have taken EDAD 5304 may not enroll in EDAD 6304.

Benchmark for this course is the successful completion of a professional portfolio with a personal educational platform. This will include a philosophy, an annotated bibliography and a professional toolkit.

**EDAD 5310 - Assessment for Career and Technology Education**

*3 sem. hrs.* A course designed to provide career education and technology instructors, counselors, and administrators with the knowledge and skills required to choose, administer and interpret aptitude, interest, and other appropriate instruments used to assist in making career decisions.

**EDAD 5311 - Occupational Training for Special Populations Education**

*3 sem. hrs.* Strategies and procedures for on-the-job training as well as instructional laboratory training of individuals with disabilities. This course includes the survey of applicable legislation and the identification of appropriate career counseling theories.

**EDAD 5314 - Organization and Administration of Occupational Training and Development**

*3 sem. hrs.* The administration of occupational training and development programs with emphasis on the implementation and operation of programs as specified by local, state and federal regulations.

**EDAD 5360 - Organizational Theory**

*3 sem. hrs.* The school as a formal organization. Focuses on theoretical aspects of organizational structures and processes with special reference to educational institutions. Doctoral students will do a scholarly analysis of two books related to Organizational Theory. Students who have taken EDAD 5360 may not enroll in EDAD 6360.

**EDAD 5361 - Current Topics: Focus On Law and Facilities**

*3 sem. hrs.* Overview of educational administration program content and the opportunity to discuss current issues in administration, which include structure and function of national, state and local agencies of educational governance and the politics of education. Doctoral students will do an exhaustive literature review culminating in a research paper on public school law or school facilities planning. Students who have taken EDAD 5361 may not enroll in EDAD 6361.
EDAD 5363 - Public School Law

3 sem. hrs.
This course is designed to study supervisory behavior and its related functions. Students are expected to acquire the knowledge and skills requisite to managing and supervising teaching and learning, and the knowledge, skills, and attitude related to an appropriate climate for instruction. Students who have taken EDAD 5376 may not enroll in EDAD 6376.

Benchmark for this course will be the ILD Proficiencies and a personal philosophy research paper.

EDAD 5364 - Management of Educational Programs and Special Units

3 sem. hrs. This course emphasizes the management of the internal organization and support of units of a campus. Topics include student grouping, staffing, scheduling, programming for special population students, textbooks, food service, campus security and pupil transportation. Students who have taken EDAD 5364 may not enroll in EDAD 6364.

EDAD 5366 - Personnel Management

3 sem. hrs.
Selection, assignment and evaluation of school personnel; salary and conditions of service for administrators, and instructional and non-instructional personnel. Doctoral students will do a research paper on some aspect of the human resource function of school administration. Students who have taken EDAD 5366 may not enroll in EDAD 6366.

Benchmark for this course is the development of a professional resume and an analysis of a particular category of school employee presented to the class formally for a grade.

EDAD 5367 - Public School Finance

3 sem. hrs. Study of the legal and conceptual basis of financing public schools with emphasis on Texas' economics of school finance; taxation trends and revenue sources; financial inequalities in opportunity, ability and effort; alternative models of school financing; managing educational resources at the district level. Students who have taken EDAD 5367 may not enroll in EDAD 6367.

EDAD 5368 - School Public Relations
3 sem. hrs. Relationships between school districts and other societal institutions and their public opinion and attitudes, relationships with news media, conducting bond campaigns, the use of citizens' advisory boards. Doctoral students will do a comprehensive literature review culminating in a paper on some aspect of school public relations. Students who have taken EDAD 5368 may not enroll in EDAD 6368.

EDAD 5369 - The School Superintendency

3 sem. hrs. Simulation of the school superintendency; superintendent's relationships with the school board, administration staff and teacher organizations; the superintendent's planning responsibilities. Doctoral students will do a comprehensive literature review resulting in a research paper related to the superintendency. Students who have taken EDAD 5369 may not enroll in EDAD 6369.

EDAD 5374 - Campus Finance and Budgeting

3 sem. hrs.
This course is a study of the financial operations of public school campuses in Texas. Seeks to equip the principal with the knowledge and skills necessary to understand and manage the budgeting, accounting, planning, purchasing and auditing functions of a campus. Doctoral students will also complete a research paper on the theory of Public School Finance. Students who have taken EDAD 5374 may not enroll in EDAD 6374.

Benchmark for this course will be the development of a campus budget with use of an AEIS report. Monies for the development of the budget are determined by the special program enrollment and enrollment individually selected by the students.

EDAD 5375 - Communication and Community Relations

3 sem. hrs.
A study of the multi-dimensional role of school community relations and administrative communication at the campus level. This course seeks to emphasize the importance of designing programs relating to the needs and problems of the school and its internal and external publics by employing analysis, oral and written communication formats, communication skills and processes, for a diverse democratic environment where citizen cooperation and involvement in school affairs is key to dynamic support and success of the school. Doctoral students will complete a scholarly paper on some topic related to school communications/community relations. Students who have taken EDAD 5375 may not enroll in EDAD 6375.

Benchmark for this course will be the development and presentation of a public relations plan and strategy for a campus.
EDAD 5376 - Supervision of Teaching

3 sem. hrs. This course is designed to study supervisory behavior and its related functions. Students are expected to acquire the knowledge and skills requisite to managing and supervising teaching and learning, and the knowledge, skills, and attitude related to an appropriate climate for instruction. Students who have taken EDAD 5376 may not enroll in EDAD 6376.

Benchmark for this course will be the ILD Proficiencies and a personal philosophy research paper.

EDAD 5377 - Teacher Appraisal System

3 sem. hrs. This course examines the structure and function of the official appraisal system for Texas teachers. The course is designed to explore all facets of the current teacher evaluation process for the State of Texas. At the successful conclusion of the course, the students will receive official certification by the State of Texas to use the current teacher evaluation process for the State of Texas to appraise teachers. Prerequisite: EDAD 5376/6376. Students who have taken EDAD 5377 may not enroll in EDAD 6377.

EDAD 5378 - Application of Administrative Concepts

3 sem. hrs. Students will demonstrate the capacity to plan for the use of administrative concepts in the solution of problems in a simulated school; assessment of student ability to apply knowledge in the solution of practical problems; time management techniques for administrators; conflict management strategies. Instructor approval required. Doctoral students will complete a scholarly paper on Landmark court cases in Texas. Students who have taken EDAD 5378 may not enroll in EDAD 6378.

Benchmark for this course will be the Case Studies analysis presented to the class and a successful in-basket analysis.

EDAD 5390 - Professional Seminar

1-3 sem. hrs. Contemporary issues in education; topics vary with professional identification of participants.

EDAD 5398 - Practicum in the School Superintendency
3 sem. hrs. On-the-job training in a school superintendent's office. Doctoral students will write a reflection paper on the practicum relating it to the most current literature in the field. Students who have taken EDAD 5398 may not enroll in EDAD 6398. Grade assigned will be “credit” (CR) or “no credit” (NC).

EDAD 5399 - School Administration Practicum

3 sem. hrs.
Required of all certification candidates. Serves as the culminating experience and the capstone of the degree/certification program. During the internship, students will assess the suitability of their skills and dispositions for administrative work; integrate skills and knowledge previously acquired; and become socialized into the administrative role. Grade assigned will be “credit” (CR) or “no credit” (NC). Instructor approval required. Student must have completed 27 hours toward the Masters; 18 hours for certification. Students who have taken EDAD 5399 may not enroll in EDAD 6399. All students taking this course must have valid teaching certificate and permission of the department. Students who do not hold a certificate in teaching may complete a theses in lieu of the capstone course. Students completing a thesis will not be eligible for a principal certification.

Benchmark for this course will be the successful completion of an internship log that is referenced by 160 hours of activity in the seven student outcomes. The log must be verified by the campus mentor. Must have valid teaching certificate and permission of the department. Grade assigned will be “credit” (CR) or “no credit” (NC).

EDAD 5696 - Directed individual Study

1-3 sem. hrs. Programs will be designed for individual cases. May be repeated when topics vary. Permission of instructor, Department Chair, and College Dean required.

EDAD 636 - Current Topics: Focus on Law and Facilities

3 sem. hrs. Overview of educational administration program content and the opportunity to discuss current issues in administration, which include structure and function of national, state and local agencies of educational governance and the politics of education. Doctoral students will do an exhaustive literature review culminating in a research paper on public school law or school facilities planning. Students who have taken EDAD 5361 may not enroll in EDAD 6361.

EDAD 6363 - Public School Law

3 sem. hrs.
This course is designed to study supervisory behavior and its related functions. Students are expected to acquire the knowledge and skills requisite to managing and supervising teaching and learning, and the knowledge, skills, and attitude related to an appropriate climate for instruction. Benchmark for this course will be the ILD Proficiencies and a personal philosophy research paper.

**EDAD 6367 - Public School Finance**

**3 sem. hrs.** Study of the legal and conceptual basis of financing public schools with emphasis on Texas’ economics of school finance; taxation trends and revenue sources; financial inequalities in opportunity, ability and effort; alternative models of school financing; managing educational resources at the district level. Students who have taken EDAD 5367 may not enroll in EDAD 6367.

**EDAD 6368 - School Public Relations**

**3 sem. hrs.** Relationships between school districts and other societal institutions and their public opinion and attitudes, relationships with news media, conducting bond campaigns, the use of citizens’ advisory boards. Doctoral students will do a comprehensive literature review culminating in a paper on some aspect of school public relations. Students who have taken EDAD 5368 may not enroll in EDAD 6368.

**EDAD 6369 - The School Superintendency**

**3 sem. hrs.** Simulation of the school superintendency; superintendent’s relationships with the school board, administration staff and teacher organizations; the superintendent’s planning responsibilities. Doctoral students will do a comprehensive literature review resulting in a research paper related to the superintendency. Students who have taken EDAD 5369 may not enroll in EDAD 6369.

**EDAD 6376 - Supervision of Teaching**

**3 sem. hrs.** This course is designed to study supervisory behavior and its related functions. Students are expected to acquire the knowledge and skills requisite to managing and supervising teaching and learning, and the knowledge, skills, and attitude related to an appropriate climate for instruction. Students who have taken EDAD 5376 may not enroll in EDAD 6376.

**EDAD 6377 - Teacher Appraisal System**
3 sem. hrs. This course examines the structure and function of the official appraisal system for Texas teachers. The course is designed to explore all facets of the current teacher evaluation process for the State of Texas. At the successful conclusion of the course, the students will receive official certification by the State of Texas to use the current teacher evaluation process for the State of Texas to appraise teachers. Students who have taken EDAD 5377 may not enroll in EDAD 6377.

EDAD 6378 - Application of Administrative Concepts

3 sem. hrs. The use of administrative concepts in the solution of problems in a simulated school; assessment of student ability to apply knowledge in the solution of practical problems; time management techniques for administrators; conflict management strategies. Instructor approval required. Doctoral students will complete a scholarly paper on Landmark court cases in Texas. Students who have taken EDAD 5378 may not enroll in EDAD 6378.

EDAD 6398 - Practicum in the School Superintendency

3 sem. hrs. On-the-job training in a school superintendent’s office. Doctoral students will write a reflection paper on the practicum relating it to the most current literature in the field. Students who have taken EDAD 5398 may not enroll in EDAD 6398. Grade assigned will be “credit” (CR) or “no credit” (NC).

EDAD 6399 - School Administration Practicum

3 sem. hrs. Required of all certification candidates. Serves as the culminating experience and the capstone of the degree/certification program. During the internship, students will assess the suitability of their skills and dispositions for administrative work; integrate skills and knowledge previously acquired; and become socialized into the administrative role. Instructor approval required. Student must have completed 27 hours toward the Masters; 18 hours for certification. Grade assigned will be “credit” (CR) or “no credit” (NC). Students who have taken EDAD 5399 may not enroll in EDAD 6399. Must have valid teaching certificate and permission of the department.

EDAD 6696 - Directed Individual Study

1-6 hrs. sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

Educational Curriculum and Instruction
EDCI 5320 - Mathematics through Communication

3 sem. hrs. A course for elementary and middle school teachers who are trying to improve mathematics teaching and understanding through the development of communication skills and their use in the mathematics classroom.

EDCI 5321 - Mathematics through Children’s Literature

3 sem. hrs. This is a course for teachers who wish to investigate the connection between children’s literature and mathematics for the purpose of improving mathematics instruction. Teachers will work through activities based upon children’s books, and develop and share similar activities based upon children’s books of their choosing.

EDCI 5322 - Science through Children’s Literature

3 sem. hrs. This course is designed for elementary and middle school teachers who wish to investigate the connections between children’s literature and science for the purpose of improving their science instruction. Teachers will participate in activities based on children’s trade books that have scientific themes, and develop and share similar experiences.

EDCI 5323 - Interactive and Multimedia Approaches in Mathematics

3 sem. hrs. This is a course for K-12 teachers who wish to investigate the use of motivational and reinforcement activities as a part of the instructional program within mathematics. Emphases will be placed on the purposes for using such activities in the mathematics program, the various types of such activities that are available to the mathematics teacher, the sources for such activities in mathematics, and the need for having a variety of such activities within the mathematics program.

EDCI 5324 - Diagnosis and Remediation of Mathematical Errors

3 sem. hrs. This is a course for teachers of K-12 who teach mathematics within the levels of kindergarten through algebra and wish to investigate mathematical errors for the purpose of diagnosing the cause and planning instruction for the purpose of remediation. Participating teachers will work through activities representing common mathematical errors made by students, maintain portfolios of samples of student errors, diagnose student errors, and learn teaching strategies for remediation of the problems that students are having.
EDCI 5325 - Applied Connections: Mathematics, Science, and Communications

3 sem. hrs. The emphasis in this course is on interdisciplinary connections among mathematics, science, and communication and also on the application of subject-area knowledge to the world of work. Attention goes to relevant research, particularly research addressing effective innovations in teaching and learning. Networks will be created to support continued learning.

EDCI 5330 - Teaching Environmental Sciences: I

3 sem. hrs. In this course, emphasis will be placed on issues related to air, water and waste reduction, and how these issues relate to the elementary classroom. Students will visit state agencies and industrial sites as a part of this course. This course is only offered during the summer. Grade assigned will be “credit” (CR) or “no credit” (NC).

EDCI 5331 - Teaching Environmental Sciences: II

3 sem. hrs. In this course, emphasis will be placed on issues related to air, water and waste reduction, and how these issues relate to the secondary classroom. Students will visit state agencies and industrial sites as a part of this course. This course is only offered during the summer. Grade assigned will be “credit” (CR) or “no credit” (NC).

EDCI 5335 - Methods of Teaching Mathematics: Grades 1-5

3 sem. hrs. A course designed to emphasize methods of teaching the essential elements in mathematics for Grades 1-5. An emphasis will be placed on the use of concrete manipulatives so that learning is accomplished with understanding.

EDCI 5336 - Methods of Teaching Mathematics: Grades 5-8

3 sem. hrs. Emphasis will be placed on modeling with concrete manipulatives, teaching for understanding, integrating mathematics into other areas of the curriculum, problem solving, diagnosis, and evaluation.

EDCI 5339 - Programs for the Gifted and Talented

3 sem. hrs. Characteristics and methods of identification of the Gifted and Talented. Various programmatic models including campus and district will be examined. Testing instruments and the concepts of differentiated curriculum will be analyzed.

EDCI 5340 - Instructional Techniques for Effective Teaching
3 sem. hrs. This course will emphasize research-based strategies for increasing student achievement, models of successful instruction to help teachers/administrators plan, and techniques for implementation of effective instructional techniques.

EDCI 5341 - Learning Theory Related to the Gifted Child

3 sem. hrs. An examination of current learning theories in relation to the gifted and talented child. Prerequisite: EDCI 5339.

EDCI 5342 - Curriculum Development for the Gifted and Talented

3 sem. hrs. Learning experiences in scope and sequence development, development of unit plans and lesson plans, and material selection and evaluation. Prerequisite: EDCI 5339.

EDCI 5345 - Visual Literacy

3 sem. hrs. lecture This course acquaints learners with a blend of instructional design, development, and production competencies that will contribute to their visual literacy. Instructional materials’ design and development skills learned will be based on theoretical and research issues related to visual literacy.

EDCI 5350 - Advanced School Problems

3 sem. hrs. Current issues in education; recent research bearing on teaching and organization of instructional programs in schools.

EDCI 5361 - Educational Assessment

3 sem. hrs. lecture This course will help educators to understand testing and performance assessment, and to effectively use assessment to support student learning ultimately building student success. The course prepares educators to use assessment as a tool to help develop all students in their classroom across the developmental span from Kindergarten through high school. Educators will learn how to prepare valid assessment instruments that contribute to effective instruction and student learning by developing proven, sound, high-quality assessments for use in the classroom.

EDCI 5362 - Theoretical Bases for Curriculum

3 sem. hrs. Reviewing and designing instructional programs; specific techniques for planning in various areas of the curriculum; concentration in area of student’s curricular specialty; specification of instructional objectives.
EDCI 5389 - Curriculum and instruction Research Seminar

3 sem. hrs. This is designed as the culminating course in the interdisciplinary curriculum and instruction master’s degree. Covered in the class are: historical and current trends in research, the critical examination of selected research studies, and a self analysis of personal and professional interests and needs. This course calls for students to integrate and use information from previous graduate classes with information presented in this class to develop, implement, and defend an action-based research project. Prerequisite: EDFN 5301, EDCI 5340, and 12 semester hours of graduate work.

EDCI 5390 - Professional Seminar

1-3 sem. hrs. This course addresses contemporary issues in education. It may repeated when topics vary.

EDCI 5395 - Strategies of Success II for the Beginning Teacher

3 sem. hrs.

This course is provided for beginning teachers during their second year on a “Probationary Certificate.” Students are provided with the application of learning principles, communication skills, and teaching strategies that will reinforce their existing teaching skills. Enrollment is limited to teachers on a TEA “Probationary Certificate,” but currently in teaching positions. This course is taken during the second semester of the second year on a “Probationary Certificate.”. Prerequisites: EDCI 5393, EDCI 5394, and EDCI 5327.

EDCI 5696 - Directed individual Study

1-6 sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

EDCI 5698 - Practicum for Gifted Children

6 sem. hrs. This course involves a supervised experience with a variety of children classified as gifted. Students will plan and implement a program designed for gifted children. Prerequisites: EDCI 5339 or permission of instructor.

EDCI 6301 - Philosophy of Education

3 sem. hrs. Ontological and epistemological perspectives on leadership; historical conceptions of leadership as revealed in the works of Greek and Roman writers of the
classical period and in the works of later European writers such as Machiavelli, Hobbes, Rousseau, Mill, and Weber.

EDCI 6303 - Issues in Curriculum and instruction

3 sem. hrs. This course will prepare the doctoral student in curriculum and instruction to understand, appreciate, and evaluate a variety of curricular strategies with attention paid to a continuum of philosophies and strategies in the area of curriculum development and the impact of those on instruction. Prerequisites: EDCI 6301 or EDCI 6324.

EDCI 6324 - Curriculum Theory

3 sem. hrs. An analysis of theoretical structures underlying curriculum development, implementation and evaluation.

EDCI 6335 - Curriculum Research Design

3 sem. hrs. This course focuses on the design of research studies, including experimental and quasi-experimental designs, other quantitatively-based designs, qualitatively-oriented designs, and mixed model designs. Prerequisites; EDLD 6333 and EDLD 6384

EDCI 6336 - Culture, Language, and Cognition

3 sem. hrs. The focus is on cultural, linguistic, and pedagogical rationales for adapting curricula and materials to meet the needs of diverse students. By adopting various theoretical, methodological, and cultural frames of reference, course participants recognize capabilities in all learners.

EDCI 6356 - Writing for Publications in Higher Education

3 sem. hrs. This course addresses topics in writing for publication in higher education including the writing process, composition, organization, collaboration, and the identification of forums for dissemination of research and scholarship.

EDCI 6390 - Special Topics in Curriculum

3 sem. hrs. This course addresses contemporary issues in education. Topics vary. It may be repeated when topics vary.

EDCI 6391 - Historical Perspectives On Curriculum
3 sem. hrs. Taking a historical perspective on the purposes and practices of schooling, this course covers major patterns in curriculum through the years in a national and global context. Also addressed are historiography and the history of educational research.

**EDCI 6392 - Critical Pedagogy**

3 sem. hrs. Attention goes to a set of philosophical positions and educational practices known as “critical pedagogy” and also to critiques and inquiries associated with this line of scholarship that address issues of difference and disadvantage. The course considers historical patterns as well as current manifestations in such areas as race, gender, and politics.

**EDCI 6397 - Seminar On Dissertation Research**

3 sem. hrs. This course is designed to assist students in writing a research proposal (introduction, review of literature, methods) that may become the basis for a doctoral dissertation. Prerequisites: EDLD 6333, EDLD 6384, EDLD 6392, EDCI 6335, and READ 6399 for Literacy Track.

**EDCI 6398 - Dissertation in Progress**

1-3 sem. hrs. Doctoral candidates conduct an approved study under the supervision of a dissertation advisor and committee.

**EDCI 6696 - Directed Individual Study**

1-6 hrs. sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

**EDUC 5327 - Strategies of Success I for the Beginning Teacher**

3 sem. hrs. This course is provided for beginning teachers during their second year on a “Probationary Certificate.” Students are provided with the application of learning principles, classroom management techniques, communication skills, and teaching strategies that will reinforce their existing teaching skills. Enrollment is limited to teachers on a TEA “Probationary Certificate,” but currently in teaching positions. This course is taken during the first semester of the second year on a “Probationary Certificate.” Prerequisites: EDUC 5393 - Internship I and Seminar for the intern Teacher and EDUC 5394 - Internship II and Seminar for the intern Teacher.

**EDUC 5351 - Foundations of Education in America**
3 sem. hrs. A course emphasizing multicultural aspects of education; requirements for teaching as they relate to special education students, including the gifted and talented; the legal and ethical aspects of teaching; and the forms of organization and management utilized in Texas and in the U.S. Enrollment limited to graduate students seeking initial teacher certification.

EDUC 5352 - Planning, Teaching, Learning Processes

3 sem. hrs. A course emphasizing the various aspects of planning for teaching: the teaching/learning process; curriculum organization; use of instructional media and technology; instructional planning; and instructional and student evaluation, including standardized testing programs, teacher evaluation, and various forms of instructional and student evaluation planned and conducted by the teacher. Each student will participate in field experiences. Enrollment limited to graduate students seeking initial teacher certification.

EDUC 5353 - Classroom Management and the Student

3 sem. hrs. A course emphasizing methods of organizing and managing a classroom, and student growth and development concepts and how they will affect classroom management. Enrollment limited to graduate students seeking initial teacher certification. Prerequisite: Admission to Teacher Education.

EDUC 5354 - Methods of Teaching Mathematics

3 sem. hrs. A course emphasizing the teaching of mathematics in Grades 1-8 using manipulatives in a problem-solving format. Instruction will build upon the following topics which will have been introduced in previous courses: the teaching-learning process, curriculum organization, use of instructional technology, instructional planning, and instructional and student evaluation. Each student will participate in field experiences. Enrollment limited to graduate students seeking initial teacher certification. Prerequisites: Mathematics Content for the Elementary Teacher, or concurrent enrollment in EDUC 5352 Planning, Teaching, Learning Processes.

EDUC 5355 - Methods of Teaching Social Studies

3 sem. hrs. A course emphasizing practical applications for the teaching of social studies in Grades 1-8. Instruction will build upon the following topics, which will have been introduced in previous courses: the teaching-learning process, curriculum organization, use of instructional technology, instructional planning, and instructional and student evaluation. Each student will participate in field experiences. Enrollment limited to
graduate students seeking initial teacher certification. Prerequisites: 9 semester hours from a minimum of two areas (U.S. History, Geography, U.S. Government, and State Government), or concurrent enrollment in EDUC 5352 Planning, Teaching, Learning Processes.

**EDUC 5356 - Methods of Teaching Science**

**3 sem. hrs.** This course is designed to provide pre-service teachers with an understanding of the teaching of science in the elementary school setting. Students' prior knowledge from previous courses will be essential to their performance in this course, namely: technology in the classroom, lesson planning, curriculum organization, and student assessment. Participation in field experiences is a requirement of this course. Enrollment limited to graduate students seeking initial teacher certification. Prerequisite or concurrent enrollment: EDUC 5352 Planning, Teaching, Learning Processes.

**EDUC 5357 - Strategies for Teaching in the Secondary School**

**3 sem. hrs.** A course emphasizing practical and varied strategies for instructional planning and presentations. Instruction will build upon the following topics, which will have been introduced in previous courses: the teaching-learning process, curriculum organization, use of instructional technology, instructional planning, and instructional and student evaluation. Each student will participate in field experiences. Enrollment limited to graduate students seeking initial certification. Prerequisite or concurrent enrollment: EDUC 5352 Planning, Teaching, Learning Processes.

**EDUC 5358 - Applied Research and Professional Writing**

**3 sem. hrs.** A course emphasizing the finding, interpreting, and use of research to achieve a stated educational goal for each individual student. Concepts of tests and measurements will be emphasized for interpreting research results and gathering data for applied research. Students will develop and execute an applied inquiry project. Enrollment limited to graduate students seeking initial teacher certification. Prerequisite: Completion with GPA of 2.5 or higher of EDUC 5351, 5352, 5353, 5354, 5355, 5356, 5357 courses. This course will only be offered in the fall and spring semesters.

**EDUC 5390 - Professional Seminar**

**1-3 sem. hrs. lecture** This course addresses contemporary issues in education. May be repeated for credit when the topic varies.

**EDUC 5395 - Strategies of Success II for the Beginning Teacher**
3 sem. hrs. This course is provided for beginning teachers during their second year on a "Probationary Certificate." Students are provided with the application of learning principles, communication skills, and teaching strategies that will reinforce their existing teaching skills. Enrollment is limited to teachers on a TEA "Probationary Certificate," but are currently in teaching positions. This course is taken during the second semester of the second year on a "Probationary Certificate." Prerequisites: EDUC 5393 - Internship I and Seminar for the intern Teacher, EDUC 5394 - Internship II and Seminar for the intern Teacher, and EDUC 5327 - Strategies of Success I for the Beginning Teacher.

Educational Foundations

EDFN 5301 - Introduction to Research

3 sem. hrs.
The graduate level course is offered in support of graduate degree programs in the College of Education. It is designed to introduce the student to the fundamentals of research in education and applied behavioral sciences. That is, students will explore what research involves, the various types of research, the techniques for conducting research studies, ethical behavior in the conduct of research, and research in educational settings. Descriptive and inferential statistics will be presented in the context of the research study. Social issues related to educational research will also be presented and discussed.

Educational Leadership

EDLD 6301 - Philosophy of Education

3 sem. hrs. Ontological and epistemological perspectives on leadership; historical conceptions of leadership as revealed in the works of Greek and Roman writers of the classical period and in the works of later European writers such as Machiavelli, Hobbes, Rousseau, Mill, Weber, and Lenin.

EDLD 6302 - Residency Seminar

3 sem. hrs. Current issues in educational leadership; national, state, and regional perspectives (taken during two consecutive semesters of academic year residency).
EDLD 6303 - The Politics of Education

3 sem. hrs. Educational functioning from a political systems perspective; internal and external political forces influencing organizational effectiveness; shaping of educational policy; functional means of attaining and utilizing political power.

EDLD 6304 - Community College and University Administration

3 sem. hrs. The purpose of this course is to examine the history and development of American systems of higher education and to study the ways in which community colleges and universities complement each other on the educational scene. Organization, funding, remedial education, and relations with the wider community will also be discussed.

EDLD 6305 - Student Affairs in Colleges and Universities

3 sem. hrs. This course is designed to provide students with knowledge of the field of student affairs, its role and function in college student development, and its fit with the academic program. This course is also intended to provide students with an understanding of the purposes and historical development of student personnel programs, the administrative structure of student affairs division in two and four year colleges, and the institutional units that fulfill the student services function.

EDLD 6306 - Higher Education in a Democratic Society

3 sem. hrs. This course will examine contemporary issues in American society in the context of higher education. Students will study and debate in detail how two and four year colleges and universities respond to societal issues. The course will also examine the ways in which institutions of higher education are influenced by social issues and how they in turn influence society.

EDLD 6307 - Higher Education Finance

3 sem. hrs. This course is designed to provide students with knowledge of higher education funding in Texas, not only at the State level but also at the institutional level. The material will also provide students with a background of the historical, philosophical, and political forces that have contributed to the current funding systems in Texas and throughout the United States. Course material will also include trends in higher education funding on a state, national, and international scope.

EDLD 6308 - Higher Education and the Law
3 sem. hrs. Study of basic legal issues as they relate to governance in higher education; including legal issues relating to trustees, administrators, staff, faculty and students; legal relationships with local, state and federal government. The course also addresses legal issues relating to accrediting, athletic and faculty associations. Legal relationships with the business/industrial community are also covered.

EDLD 6310 - The Education and Training of Adults

3 sem. hrs. The purpose of this course is to introduce adult education as both a field of practice and a field of study to professionals working in universities, community colleges, businesses, government, social service agencies, and other venues concerned with the education and training of adults. Exemplary practices in adult education and training reflect theoretic constructs undergirding the field; therefore, EDLD 6310 is a theory-into-practice class.

EDLD 6311 - Contemporary Theories of Educational Leadership

3 sem. hrs. Assumptions of the major schools of thought regarding leadership; findings from research conducted pursuant to trait theory, behavioral theory, and situational/contingency models; conceptions of leadership effectiveness; implications for leadership in educational organizations.

EDLD 6312 - Clinical Leadership Laboratory

3 sem. hrs. Students will undergo assessment of personal leadership skills through assessment center methodologies. Abilities assessed will include decision-making, group participation, interpersonal communication, and presentation skills.

EDLD 6313 - Policy Development and Decision-making

3 sem. hrs. Study of policy conceptualization; development and implementation integrated with decision-making processes; ethical and moral responsibility of educational leadership.

EDLD 6314 - Professionals in Educational Organizations

3 sem. hrs. The nature of professionalism in education; points of conflict between bureaucratic and professional norms; accommodations to conflict; integrating professional norms with organizational requirements; organizational leadership of professionals; the character of professional associations in education.

EDLD 6315 - Multicultural Analysis: Concepts for Educational Leaders
3 sem. hrs. Study of multicultural relations in American society and an exploration of critical problems confronting educational systems in general and educational leaders in particular.

**EDLD 6321 - Instructional Theory**

3 sem. hrs. Theoretical basis for understanding instructional models and processes; research relevant to factors influencing instructional effectiveness and the interaction among instructional and learning variables.

**EDLD 6322 - Analysis of Learning Environments**

3 sem. hrs. Analysis of the school and classroom social system; examination of social, cultural, and psychological variables that influence school learning.

**EDLD 6324 - Curriculum Theory**

3 sem. hrs. An analysis of theoretical structures underlying curriculum development; implementation and evaluation.

**EDLD 6331 - Educational innovations**

3 sem. hrs. An examination of the basic elements of successful school renewal programs with emphasis on systematic approaches to educational innovation and the process of change; studies of successful innovative programs.

**EDLD 6333 - Applied Statistics 1**

3 sem. hrs. This is a course in univariate statistics, which includes the use of Statistical Package for the Social Sciences (SPSS) with exercises related to various descriptive and inferential statistical techniques.

**EDLD 6335 - Quantitative Research Methods**

3 sem. hrs.

The course is designed to provide the student with the knowledge and skills needed to read, analyze and synthesize educational research, and to give the student experience in the development and conduct of a research project. Course content includes instruction in preparation of a research proposal, identification of a research problem, sampling techniques, research design, instrumentation, data collection, and data analysis.

Prerequisite: EDLD 6333, EDLD 6392, EDLD 6384
Prerequisite: EDLD 6392.

**EDLD 6342 - Community Leadership Development**

1-3 sem. hrs. This course develops collaborative leadership skills related to initiating and implementing school and community partnerships. A special focus is the enhancement of critical literacy skills—the capacity to read and interpret events within the socio-political context of community-embedded educational leadership.

**EDLD 6384 - Qualitative Research Methods**

3 sem. hrs. This course is based on reviews of the theoretical and methodological approaches to qualitative research. Students will situate qualitative inquiry/research in their philosophical, theoretical, and historical situations, learn methods of qualitative design, and develop a preliminary capacity to collect, analyze, and interpret qualitative empirical materials.

**EDLD 6385 - Advanced Data Analysis in Qualitative Methods**

3 sem. hrs. This course is designed for doctoral students who want to pursue their interests in qualitative methods and who want to use these methods in their dissertation. Students would need to have a qualitative research methods course completed in order to take this class. Students will learn to use various qualitative data analysis methods using multiple data sources. Prerequisite: EDLD 6384

**EDLD 6390 - Special Topics in Educational Leadership**

1-6 hrs. sem. hrs. Selected topics in an identified area of Educational Leadership; advanced investigations of selected topics and problems dealing with curriculum theory, program design, and experimental formulations. May be repeated for credit when topics vary.

**EDLD 6392 - Applied Statistics 2**

3 sem. hrs.

The course in advanced statistical procedures is a continuation of EDLD 6333. Special emphasis is placed on analysis of variance (ANOVA) techniques such as one-way and factorial ANOVA, analysis of covariance (ANCOVA), repeated measures ANOVA, and multivariate analysis of variance (MANOVA), as well as multiple regression analysis, logistic regression analysis, and discriminant analysis. Also included are selected nonparametric statistical techniques. The course includes hands-on experiences in the
use of Statistical Package for the Social Sciences (SPSS) with exercises related to the topics covered.

Prerequisite: EDLD 6333

EDLD 6395 - Analysis and Reporting of Research Data

3 sem. hrs. This course is designed for doctoral students who want to develop their data analysis skills for their research projects in order to report findings for publication purposes and dissertations. Students will learn how to select appropriate data analysis methods, analyze data, and learn how to academically report research findings.

EDLD 6397 - Dissertation Research

3 sem. hrs. This course is designed to assist the student in writing a three-chapter (introduction, review of literature, methods) research proposal that may become the basis for a doctoral dissertation. Prerequisites: EDLD 6333, EDLD 6384, EDLD 6335, EDLD 6392.

EDLD 6398 - Dissertation

3 sem. hrs. Completion of an approved field study under the supervision of a dissertation adviser.

EDLD 6609 - Practicum in Higher Education: Processes and Practices

1-6 sem. hrs. This course will examine the functions and practices typically found in institutions of higher education. Students will examine these functions and practices in the context of a complex organization and develop an understanding of how they contribute to the mission of the institution. Students will also complete an internship experience in a University or community college office, not their own. Prerequisite: Instructor’s permission required. Grade assigned will be “credit” (CR) or “no credit” (NC).

EDLD 6696 - Directed Individual Study

1-6 hrs. sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

Educational Research and Studies
ERST 5302 - Studies in Equality of Educational Opportunities

3 sem. hrs. Recent developments affecting the education of minority children and youth; innovations in program development and equality of educational opportunity.

Educational Technology

IDET 5300 - Instructional Design and Educational Technology Foundations

3 sem. hrs.

Conceptual foundations of the field of Instructional Design and Educational Technology. Considers historical factors that contributed to the development of the field. Considers underlying systems concepts. Introduces major publications and professional organizations in the field. Includes a research project.

IDET 5301 - Applications in integrated Software

3 sem. hrs. Practical application skills for using record keeping, and mail-merge skills for using integrated software in a school environment. Portfolio that includes materials related to classroom management and communication, record keeping, and instruction will be developed.

IDET 5302 - Computer Applications in Education

3 sem. hrs. Introduces the uses of technology in classroom environments. Examines and practices technology integration within classroom environments, using various applications, instructional and productivity software, as well as evaluation tools and resources. Addresses development of integrated instructional activities and a collaborative final project related to selected instructional goals.

IDET 5303 - Instructional Hypermedia

3 sem. hrs. Application of a variety of computing applications integral to effective hypermedia development. Study of hypermedia design research. Production of a series of hypermedia objects in audio, video, and graphic production, as well as a final project related to selected instructional goals.

IDET 5304 - Instructional Design
3 sem. hrs. Provides an introduction to instructional design theory, principles, and techniques and related learning theories. Considers various instructional design models including the Instructional Systems Development Model. Includes development of a final instructional design project. While there is no prerequisite for this course it is recommended that IDET 5304 be completed first.

IDET 5305 - Instructional Design Applications

3 sem. hrs.

Specification of research-based instructional strategies for various categories of learning outcomes. Applied use of educational technologies to design and develop instructional materials that are consistent with research findings in the field.

IDET 5310 - Internet Resources in Education and Training

3 sem. hrs. Surveys uses of Internet resources for instruction. Considers design standards and software tools for web development. Considers instructional strategies involving use of Internet resources to support learning.

IDET 5320 - Project Based Learning and Related Strategies for Technology Integration

3 sem. hrs.

A course designed to enable participants to thoughtfully plan for integration of computers and other media in instruction. Examines the Project-Based Learning Model to engage learners in projects requiring investigation, analysis, synthesis, and presentation in real-world situations. Considers a rationale for technology integration, learning theory, evaluation of interactive media, strategies for technology integration, and related student assessment.

IDET 5360 - Design Strategies for Online Instruction and Learning Management Systems

3 sem. hrs.

This course is designed to provide educators with an overview of the instructional and programmatic factors that should be considered when designing, developing, and
delivering an online course. Incorporates research-based knowledge consistent with International Association for K-12 Online Learning (iNACOL) and Texas Virtual School Network (TxVSN) standards. This course considers the specific needs of online students as well as the pedagogical and technical skills necessary to succeed when teaching online. Aspects of course website usability and accessibility are also addressed.

**IDET 5365 - Instructional Materials Development for Learning Management Systems**

3 sem. hrs.

A course addressing research and best practices related to the development of instructional activities and materials for online instruction within a learning management system environment. Incorporates research-based knowledge consistent with International Association for K-12 Online Learning (iNACOL) and Texas Virtual School Network (TxVSN) standards. Consistent with those standards, researches sound instructional strategies for promoting student success. Covers legal, ethical, and safe behavior related to technology use. Considers research on the development and delivery of assessments and assignments that meet standards-based learning goals. Reviews research on assessment and measurement of learning and use of data from assessment and other sources to formatively modify content.

**IDET 5380 - Educational Technology for Administrators**

3 sem. hrs. This course serves the modern administrator regarding problems of use, selection, and management of administrative educational technology at the campus level.

**IDET 5390 - Professional Seminar**

3 sem. hrs. Contemporary issues in educational technology; topics vary with professional interests and needs of participants.

**IDET 5397 - Instructional Design and Educational Technology Practicum**

3 sem. hrs. On-the-job guided practice in the planning and use of educational technologies and instructional design skills in educational settings. Prerequisite: Graded pass/fail. Prerequisite: Participants must have completed or must be completing at least 30 semester hours of approved course work to be eligible to complete the practicum. Graded
IDET 5696 - Directed individual Study

1-6 sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

IDET 6301 - Foundations of Instructional Design

3 sem. hrs. Explores theoretical, conceptual, technological and historical foundations of instructional design and educational technology. Examines the historical development of using technology for educational purposes. Includes intensive examination and application of contemporary learning theories and instructional design principles and processes related to use of technology in instructional environments. Prerequisite: Student must be in the doctoral study.

IDET 6315 - Project-Based Learning Types and Emerging Technologies

3 sem. hrs. This course takes a deeper look regarding emerging technologies and research-based practices in project-based and related learning environments. Students will be invited into a project-based experiential process that includes a local service outlet. Extension of Web 2.0, web conferencing, audio, emerging technologies and pedagogical practices are explored and integrated into their research of their project. Students review research on project-based and related learning environments, critically analyze the research, and develop a related theoretically-based paper for submission to a professional publication or conference. Prerequisite: Students must be in doctoral study.

IDET 6345 - Visual Literacy

3 sem. hrs. This fully online course acquaints learners with a blend of instructional design, development, and production competencies that will contribute to their visual literacy. Visual literacy is the ability to understand and use images, including the abilities to describe cultural and psychological meanings of images one encounters, as well as to think, learn, and express oneself with images. Instructional design and development skills learned will be based on theoretical and research issues related to visual literacy. Because the course is taught via the Web at a distance, learners will have to provide their own PowerPoint, graphics development, spreadsheets, and word processing software or use those provided in public spaces. Computer labs at TAMU-CC have the necessary software. Any work may be done in this class in collaboration with others from the class. Students are expected to work with others as much as time permits and are expected to learn from and teach each other about visual literacy. The course is available at http://Bb9.tamucc.edu. Prerequisite: There are no prerequisites and the course may be taken as an elective.
IDET 6360 - Design Strategies for Online Instruction and Learning Management Systems

3 sem. hrs. Addresses concepts, structures, and design strategies for effective online instruction through exploration within a learning management system. Researches and develops experiential strategies for active learning, interaction, and collaboration. Considers student diversity, academic needs and accommodations, professional development, and online interactions. Also addresses arranging media and content within an LMS. Course content is consistent with International Association for K-12 Online Learning (iNACOL) and Texas Virtual School Network (TxSVN) standards. Prerequisite: Students must be in doctoral study.

IDET 6365 - Instructional Materials Development for Learning Management Systems

3 sem. hrs. A course addressing research and best practices related to the development of instructional activities and materials for online instruction within a learning management system environment. Incorporates research-based knowledge consistent with International Association for K-12 Online Learning (iNACOL) and Texas Virtual School Network (TxVSN) standards. Consistent with those standards, researches sound instructional strategies for promoting student success. Covers legal, ethical, and safe behavior related to technology use. Considers research on the development and delivery of assessments and assignments that meet standards-based learning goals. Reviews research on assessment and measurement of learning and use of data from assessment and other sources to formatively modify content. Prerequisite: Students must be in doctoral study.

IDET 6370 - Online Course Design, Development, and Review

3 sem. hrs.

Participants in this project-based course must have access to a networked computer. Students learn how to create engaging instruction for online learners. The course is delivered as a workshop and field-based experience in which students create online instructional content in the Blackboard learning management system. Emphasis will be placed on application of learner-centered instructional strategies. Legal issues related to copyright and accessibility will be addressed. The course consists of 4 phases:

- First, students explore ways to design engaging learning experiences by applying learner-centered pedagogy to course design and development.
• Second, students learn how to support academic integrity and follow ADA and copyright guidelines in their online course designs.

• Third, students fully develop a highly interactive, engaging online course where an instructor has a lot of personal presence.

• Fourth, students learn how to evaluate a course for quality and review a peer's course design.

Upon successful course completion students will receive a Professional Development and Continuity of Learning Certificate and a Certificate. Prerequisite: None.

IDET 6375 - Theoretical Foundations and Frameworks of Learning Environments

3 sem. hrs. The course is available at [http://Bb9.tamucc.edu](http://Bb9.tamucc.edu). This blended course provides students, faculty, and instructional designers with a clear, concise introduction to the major pedagogical and psychological theories and their implications for the design of new learning environments for schools, universities, or corporations. Students analyze and explore a survey of the most important contemporary theories forming the foundational design of student-centered learning environments and the new applications of educational technologies. The major products of this course include three theoretical framework writing samples: a deconstructive analysis, a synthesized construction, and a proposed theoretical framework or model for a selected former constructivist environment learning solution as a possible leading conference paper submission. Prerequisite: Students must be in doctoral study.

IDET 6380 - Special Topics Course - Design and Development Research

3 sem. hrs. The course is available at [http://Bb9.tamucc.edu](http://Bb9.tamucc.edu). This blended course acquaints learners with processes and products of design and development research. Students analyze and explore design-based research and other literature to identify a societal problem to address. They then design a potential educational solution. They describe methods to evaluate the impacts and effects of the potential solution. The product of the course is a research proposal as well as knowledge of research processes to be followed for future studies. Prerequisite: Students must be in doctoral study.

IDET 6390 - Special Topics in Instructional Design and Educational Technology

3 sem. hrs. Application of research regarding contemporary theoretical and applied issues in instructional design and educational technology. Topics vary with professional needs and interests and participants. Prerequisite: Students must be in doctoral study.

Engineering Technology
Graduate courses in engineering technology are offered in support of graduate degree programs in computer science, environmental science and education. For details concerning these particular degree programs, consult the College of Science and Engineering section of the catalog.

For Additional Information

Website: http://entc.tamucc.edu/

Campus address: Science and Technology, Room ST 222, Phone (361) 825-5849

Mailing address: Engineering Technology Program, Unit 5797
College of Science and Technology
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-579

ENTC 5490 - Selected Topics

1-4 sem. hrs. Subject material variable. May be repeated for credit when topics are different. Prerequisites: Vary depending upon topic.

ENTC 5496 - 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 subject area.

English

ENGL 5301 - Theory and Practice I: Literary Studies

3 sem. hrs. Introduces students to techniques of research and scholarship in literary study through a survey of critical debates in literary theory. Offered in the Fall semesters only.

ENGL 5303 - Theory and Practice II: Writing Studies

3 sem. hrs. Introduces students to techniques of research and scholarship in writing studies through a survey of critical debates in writing studies scholarship, with special attention to current research on composing and its pedagogical implications. Offered in the Spring semester only.
ENGL 5340 - British Literature Before 1660

3 sem. hrs. Examination of poetry, drama, or prose written before 1660. Sample topics: The Global Renaissance, Digital Shakespeare, Writing Women in Early English Literature. May be repeated for credit when topics vary.

ENGL 5342 - British Literature 1660 - 1830

3 sem. hrs. Studies of major writers and texts of the British long eighteenth century (1660 - 1832). Primary focus is on the literary texts, and cultural history of the period, with opportunities to bring in current literary theories and criticism. Sample topics: Gender and Sexuality in the Novel, Gothic Fiction, Travel Writing. May be repeated for credit when topics vary.

ENGL 5343 - British Poetry and Fiction 1900-Present

3 sem. hrs. Exploration of one or more writers, genres, literary movements, issues, or ideologies of the 20th century. Includes writers from the British Isles and the Commonwealth. May be repeated for credit when topics vary.

ENGL 5344 - British Literature 1830 - 1900

3 sem. hrs. Studies of British fiction, poetry, and prose written between 1830 and 1900 and the social forces—domestic, economic, political, religious, scientific—that influenced and were influenced by these works. Sample topics: Social change and the Victorian body; Victorian fun; Victorians and Empire. May be repeated for credit when topics vary.

ENGL 5346 - American Literature to 1865

3 sem. hrs. Readings in one or more writers, genres, literary movements, issues, or ideologies of the period. Sample topics: Transoceanic Americas: Literatures amid the Spanish Empire, American Print Cultures, Medicine and Early American literature. May be repeated for credit when topics vary.

ENGL 5347 - American Literature 1865-1940

3 sem. hrs. Studies in one or more writers, genres, literary movements, issues, or ideologies of the period. Sample topics: The Lost Generation, Modernism and the Harlem Renaissance, Falkner and the South. May be repeated for credit when topics vary.

ENGL 5348 - American Literature 1945-Present
3 sem. hrs. Exploration of one or more major writers, genres, literary movements, issues, or ideologies since World War II. Sample topics: Experimental Narrative, US-Latin American Literature and Culture, The Postmodern Novel. May be repeated for credit when topics vary.

**ENGL 5349 - Topics and Genres in Literature**

3 sem. hrs. Studies in topics and genres that span more than one literary period and/or include works from both British and American literature. Sample topics: Crossing Borders, Crossing Nations, The City in Literature, Queer Theory. May be repeated for credit when topics vary.

**ENGL 5360 - Evaluation and Diagnosis of Writing**

3 sem. hrs. Study and practice in methods by which written texts are evaluated and the evaluation used for instructional purposes. Methods range from classroom techniques to formal assessment procedures (holistic, primary trait, portfolio, etc.).

**ENGL 5361 - Basic Writing Theory and Pedagogy**

3 sem. hrs. Studies in the theory and pedagogy of the teaching of developmental writing. Focus centers on the political, sociolinguistic, and educational history and status of basic writers.

**ENGL 5362 - Computers and Writing**

3 sem. hrs. Studies in the theory and practice of electronic research, writing and editing. Includes topics that relate to academic scholarship and contemporary writing instruction within electronic settings.

**ENGL 5363 - History of Rhetoric**

3 sem. hrs. Examination of classical and modern traditions in rhetoric and their application to written discourse. Topics focus on contributions of classical and modern rhetoricians, written literacy, and the institutionalization of written instruction.

**ENGL 5364 - Technical Writing Theory and Pedagogy**

3 sem. hrs. Exploration of theories and practice in technical and professional writing, with emphasis on analyzing documents and their contexts.

**ENGL 5365 - Community Literacy Theory and Pedagogy**
3 sem. hrs. Studies in the production of texts, with emphasis on the relation between textuality and social groups, and between textuality and cultural identities.

**ENGL 5369 - Topics and Genres in Rhetoric and Composition**

3 sem. hrs. Exploration of specific issues and problems in rhetoric and composition studies. Sample topics: ethnographic research, gender and writing. May be repeated for credit when topics vary.

**ENGL 5375 - Creative Writing**

3 sem. hrs. A studio approach to writing fiction, non-fiction, and poetry, with an emphasis on the elements and critical terminology of each genre.

**ENGL 5376 - Professional Writing**

3 sem. hrs. Workshop on the genres and practices of professional writing and communication.

**ENGL 5380 - Seminar in Sociolinguistics**

3 sem. hrs. Exploration of topics related to language in society, including but not limited to an introduction to sociolinguistics, language variation, disclosure analysis, language planning and policy, multilingualism, and world Englishes. May be repeated when topics vary.

**ENGL 5381 - Introduction to Linguistics**

3 sem. hrs. Introduces students to the nature and behavior of human language; covers topics in phonetics, morphology, syntax, semantics, sociolinguistics, neurolinguistics, and language acquisition.

**ENGL 5385 - Seminar in Applied Linguistics**

3 sem. hrs. Exploration of topics broadly covered in the field of Applied Linguistics. Topics may include (but are not limited to) language assessment, grammar, second language writing, language and gender, corpus linguistics, and second language acquisition. May be repeated when topics vary.

**ENGL 5390 - Thesis**
3 sem. hrs. The thesis is a scholarly or critical project involving 6 credit hours (taken in two separate semesters) at the final stages of the graduate program. Prerequisite: approval of English Graduate Committee. Grade assigned will be “credit” (CR) or “no credit” (NC).

ENGL 5392 - Practicum for Composition Instructors

3 sem. hrs. Practical training for English Teaching Assistants. A seminar in contemporary composition and rhetorical theory with practical applications for the First-Year classroom. Prerequisite: formal acceptance as a Teaching Assistant by the College of Liberal Arts. Offered in Summer II

ENGL 5393 - General Studies Literature Instructors Practicum

3 sem. hrs. This practicum will prepare and support graduate students who will work as first-time graduate assistants in the General Studies Literature Program. Grade assigned will be “credit” (CR) or “no credit” (NC). Offered in Fall.

ENGL 5395 - Capstone

3 sem. hrs. A seminar that connects English studies with the life of the professional scholar, introducing students to publication, conference work, academic-community activity, and involvement with culture and society.

ENGL 5396 - Individual Study

1-3 sem. hrs. Individual study, reading or research with faculty direction and evaluation. To receive program credit for the MA in English, students must have completed the English core. Credit for this course is limited to 3 hours in any degree plan. Offered on application to and approval of the program coordinator.

ENGL 5667 - Workshop

6 sem. hrs. Invitational Summer Institute of the Coastal Bend Writing Project, affiliated with the National Writing Project. Workshop for teachers pre-k through university level that: 1) studies theory and effective practices in writing pedagogy; and 2) focuses on improving participants' writing and research skills with the goal of publication. Prerequisites: minimum of one year teaching experience; permission from the Director of the Coastal Bend Writing Project, Dr. Catherine Quick: catherine.quick@tamucc.edu.

Environmental Science
**Graduate Courses**

General prerequisite for 5000-level courses: graduate standing. Senior undergraduates in their last semester or summer session of undergraduate work may take 5000-level courses provided that they have a cumulative grade point average of 3.0 or better, and that written approval is obtained from the Dean of the college in which the work is offered. 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.

**ESCI 5101 - Environmental Research Seminar**

1 sem. hrs. (1:0) Studies and analysis of pertinent literature. May be repeated for credit, but credit may count only once towards the degree plan. Course is taken as credit/no credit. Fall, Spring (on sufficient demand).

**ESCI 5201 - Advanced Scientific Diving Techniques**

2 sem. hrs. (2:0) Advanced study of the 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. Offered on sufficient demand.

**ESCI 5203 - Professional Skills for Scientists**

2 sem. hrs. (2:0) Presentation and discussion of professional skills of practicing scientists including literature searches, evaluation of information sources, oral and written communication skills, lifelong learning, careers and professional opportunities. Spring.

**ESCI 5302 - Federal Environmental Laws and Regulations**

3 sem. hrs. (3:0) Advanced study of case histories involving the application of state and federal environmental laws and regulations. Review of permits, waste registrations, manifests, self-reporting and inspection reports. Prerequisite: science background or permission of instructor. Fall, Spring (on sufficient demand), Summer (on sufficient demand).

**ESCI 5314 - Biogeochemical Processes**
3 sem. hrs. (3:0) Water and element cycling in the atmosphere, hydrosphere and geosphere. Microbial interactions and physical processes will be emphasized. Prerequisites: CHEM 1311/1312, and GEOL 1403 or ESCI 1401 or ESCI 3351, or permission of instructor. Offered on sufficient demand.

ESCI 5320 - Advanced Environmental Health

3 sem. hrs. (3:0) Advanced study 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. Offered on sufficient demand.

ESCI 5322 - Industrial Hygiene

3 sem. hrs. (3:0) Health protection practices in the industrial environment. Health basis for OSHA laws, regulations. Sampling and testing procedures. Offered on sufficient demand.

ESCI 5330 - Oil Spill Management

3 sem. hrs. (2:2) Review 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. Development of a spill management team incorporating the elements of incident command. Field exercises in oil spill response. Co-requisite: SMTE 0096 Environmental Science Lab Safety Seminar - Required every semester for lab-based courses. The Safety Seminar must be completed before the Census Date of the semester to participate in the lab portion of this course. Fall, Spring, Summer (on sufficient demand).

ESCI 5345 - Living with Coastal Hazards

3 sem. hrs. (3:0) Study of how coastal processes, such as hurricanes, sea-level rise, and erosion, intersect with human activities to create hazardous conditions and how society responds to these conditions, presented through discussion, case studies, and field trips. Offered on sufficient demand.

ESCI 5350 - Fundamentals of Physical Oceanography

3 sem. hrs. (3:0)
Principles that rule water motions and associated transport and dispersion of natural and man-made substances in the sea including a review of the mean ocean circulation and its spatial and temporal variability, observational methods, ocean circulation theories and air-sea interactions. Prerequisites: Science background or consent of instructor. Offered on sufficient demand.

ESCI 5359 - Ecosystem Dynamics

3 sem. hrs. (3:0) Investigation of the interactions between organisms and physical processes that regulate marine ecosystem functions. Offered on sufficient demand.

ESCI 5360 - Coastal Management and Ocean Law

3 sem. hrs. (3:0) The legal and policy framework associated with the coastal zone and ocean environment. Public access to coastal lands and waters, public trust, wetlands regulation; international law of the sea, fisheries law, and marine pollution. Fall.

ESCI 5365 - Managing Occupational Safety and Accident Prevention

3 sem. hrs. (3:0) This course provides students with advanced knowledge of regulatory requirements on occupational safety and practical techniques on accident prevention in the work environment. Offered on sufficient demand.

ESCI 5370 - Hazardous Waste Treatment Technologies

3 sem. hrs. (3:0) Review of the laws and regulations of hazardous waste management from an historical perspective followed by reports on current techniques for handling, reducing, and disposing of hazardous wastes in an environmentally safe manner. Co-requisite: SMTE 0096 Environmental Science Lab Safety Seminar - Required every semester for lab-based courses. The Safety Seminar must be completed before the Census Date of the semester to participate in the lab portion of this course. Fall, Spring, Summer (on sufficient demand).

ESCI 5380 - Environmental Management Systems

3 sem. hrs. (3:0) This course explores the systems management approach used by businesses and governments to promote environmental quality and sustainability. EMS and ISO 14001 standards go beyond minimally acceptable environmental compliance. Offered on sufficient demand.

ESCI 5392 - Thesis I: Thesis Proposal
3 sem. hrs. (3:0) Review of the literature on a thesis topic. Completion of a written research proposal including proposed experimental design. Prerequisites: Open only to degree candidates in environmental science. Requires consent of the graduate advisor. Fall, Spring, Summer.

ESCI 5393 - Thesis II: Thesis Research

3 sem. hrs. (3:0) Collection and organization of research data and presentation of a rough draft of the thesis manuscript to the thesis advisor. May be repeated; no more than two hours may be taken per semester. Prerequisites: Open only to degree candidates in environmental science. Requires consent of the graduate advisor and qualitative grade for ESCI 5392 (Thesis I). Fall, Spring, Summer.

ESCI 5394 - Thesis III: Thesis Submission

3 sem. hrs. (3:0) Thesis defense and completion of the thesis manuscript including acceptance of the final copy by the advisory committee. May be repeated; no more than two hours may be taken per semester. Prerequisites: Open only to degree candidates in environmental science. Requires consent of the graduate advisor and qualitative grade for ESCI 5392 (Thesis I). Fall, Spring, Summer.

ESCI 5397 - Directed Research

3 sem. hrs. (3:0) Emphasis on experimental design as related to environmental science. For students selecting the non-thesis option. Only three semester hours will count towards the non-thesis degree. Requires presentation of results in a written paper and seminar. Fall, Spring, Summer.

ESCI 5408 - Environmental Microbiology

4 sem. hrs. (3:3) Relationships between microorganisms and their biotic and abiotic environments. Current topics such as air quality (e.g., molds), water quality and bioremediation will be discussed. Laboratory will include techniques for sampling from soil, air and water. Prerequisites: BIOL 2421 or consent of instructor. Offered on sufficient demand.

ESCI 5480 - Environmental Assessment

4 sem. hrs. (3:2) Interdisciplinary application of environmental regulations, risk assessment to specific examples. Knowledge of United States environmental regulations assumed; ESCI 4301 or ESCI 5203 - Professional Skills for Scientists recommended. Co-requisite: SMTE 0094 - Environmental Science Laboratory Safety Seminar - Required
every semester for lab-based courses. The Safety Seminar must be completed before the Census Date of the Semester to participate in the lab portion of this course. Offered on sufficient demand.

**ESCI 5490 - Advanced Topics**

1-4 sem. hrs. (1:0-3:2) Subject materials variable. Advanced topics including current literature research. May be repeated for credit when topics are sufficiently different. Prerequisite: Permission of instructor. Offered on sufficient demand.

**ESCI 5596 - Directed Independent Study**

1-5 sem. hrs. Study in areas of current interest. (A total of six hours of Directed Independent Study may be counted toward the MS degree.) Fall, Spring, Summer.

**ESCI 5940 - Project Research**

3-9 sem. hrs. Research related to the MS project. Requires consent of graduate advisor. Does not count as credit toward the MS degree in Environmental Science. Course is taken as credit/no credit. Fall, Spring, Summer.

**ESCI 6321 - Advanced Soil and Groundwater Restoration**

3 sem. hrs. (3:0) Advanced study of methods for restoring contaminated soil and groundwater by examining the factors and processes influencing the efficacy of remediation systems. An emphasis will be placed on the scientific principles upon which soil and groundwater remediation is based. Co-requisite: SMTE 0094 Environmental Science Laboratory Safety Seminar - Required every semester for lab-based courses. The Safety Seminar must be completed before the Census Date of the semester to participate in the lab portion of this course. Offered on sufficient demand.

**ESCI 6324 - Advanced Industrial Toxicology**

3 sem. hrs. (3:0) Advanced review of human physiology, general concepts of toxicology: dose-response relationship, interactions between the host and the agents, risk assessment, to provide a fundamental understanding of toxicology related to the chemicals in the workplace. Co-requisite: SMTE 0094 - Environmental Science Laboratory Safety Seminar - Required every semester for lab-based courses. The Safety Seminar must be completed before the Census Date of the semester to participate in the lab portion of this course. Offered on sufficient demand.

**ESCI 6332 - Advanced Wetlands Management**
3 sem. hrs. (2:2)

Advanced overview of federal wetland and riparian regulatory policy, wetland delineation, wetland plants, hydric soils, wetland mitigation, wetland construction and riparian habitat restoration. Field trips. Offered on sufficient demand.

ESCI 6340 - Ocean Resources

3 sem. hrs. (3:0) Investigation of topics related to the discovery, distribution, and exploitation of marine resources of the ocean with a focus on the Gulf of Mexico, including the impact of resource exploitation on biological systems, and the development of marine policy.

ESCI 6590 - Advanced Topics

1-5 sem. hrs. (1:0-3:4) Advanced study in a specific area of environmental science. May be repeated for credit when topics vary. Offered on sufficient demand.

Finance

FINA 5311 - Financial Management Concepts

3 sem. hrs. An intensive study for students with limited or no academic experience in finance. Helps to provide an understanding of the concepts of present value, funds flow analysis, cost of capital, capital budgeting, and valuation theories used in corporate finance. (This is a core course.) Prerequisites: ACCT 5312, ECON 5311 and ORMS 5310, or equivalents.

FINA 5320 - Managerial Finance

3 sem. hrs. An expanded study of the theoretical framework of financial analytical principles, including contemporary topics. Combines theory and case analysis to integrate principles with practice, emphasis on the relevant theory, the application of theory to managerial problems, and the presentation of results in written and oral form. Applies concepts of corporate finance, accounting principles and quantitative analysis. Prerequisites: FINA 5311 (or equivalent) and ACCT 5315.

FINA 5325 - Real Estate Finance and Investments
3 sem. hrs. This course will examine the risks and rewards associated with investing in and financing residential as well as commercial real estate. These concepts include appraising/valuing income properties, valuing debt securities, and managing portfolios of properties and securities. Prerequisite: FINA 5311 or equivalent.

FINA 5330 - Analysis of Derivative Securities

3 sem. hrs. Analysis of financial derivative contracts; including options, futures and forward contracts; in particular commodity trading and hedging strategies. Swaps will be included in the presentation if time permits. Class is oriented to helping applicants pass the derivatives material on a broker's license exam. Prerequisites: FINA 5311 or equivalent.

FINA 5333 - Personal Financial Planning

3 sem. hrs. Survey course in financial planning. Covers topics in the financial planning process: cash, debt and savings management, taxes, housing decisions, insurance and risk management, investment alternatives, and retirement and estate planning. Prerequisites: FINA 5311 or equivalent.

FINA 5335 - Multinational Finance

3 sem. hrs. A study of corporate financial planning and decision making in a multinational environment. Topics covered include measurement and management of exchange rate risk, financing international trade, short-and long-term asset and liability management, direct foreign investment, cost of capital and capital structure, and country risk analysis. Prerequisites: FINA 5311 or equivalent or consent of instructor.

FINA 5340 - Investment and Portfolio Theory

3 sem. hrs. A study of the financial markets, security, evaluation, efficiency of markets evaluations, investment goals and portfolio selection. Professional investment management techniques are examined in the context of modern portfolio theory. A unified systems approach is adopted for investment selection and control. Prerequisites: FINA 5320.

FINA 5345 - Financial Markets and Institutions

3 sem. hrs. The role of the financial markets and institutions in the global economy is examined including regulation, money market operations, global impact of central banking monetary policy, and determinants of interest rates and financial asset pricing. Prerequisites: graduate standing.
FINA 5370 - Seminar

1-3 sem. hrs. Seminar in specific topics within Finance. May be repeated for significantly different topics with written permission from the Director of Master's Programs. Prerequisite may vary depending on topic.

FINA 5396 - Directed Individual Research Or Readings

1-3 sem. hrs. Contact Director of Master's Programs.

Fisheries and Mariculture

FAMA 5102 - Graduate Defense Seminar

1 sem. hrs. Formal presentation of the research or internship activities conducted for the MS degree. To be taken the final semester of resident graduate study. Offered any semester upon request by a student and consent of the instructor. Open only to M.S. thesis track students in Fisheries and Mariculture. Offered any semester upon request by a student and consent of the instructor.

FAMA 5312 - Mariculture Techniques

3 sem. hrs. (2:2) The study and hands-on application of biological, mechanical, and other concepts required to develop the skills and techniques necessary for efficient operation and management of public and private aquaculture facilities. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester every year.

FAMA 5314 - Aquatic Animal Nutrition

3 sem. hrs. (3:0) The study of current concepts in aquatic animal nutrition including nutrient sources and requirements, deficiency effects, ingestive/digestive/metabolic processes, formulation and processing of feeds, and practical feeding considerations for selected aquatic species. Offered fall semester of odd-numbered years.

FAMA 5315 - Diseases and Parasites of Aquatic Organisms

3 sem. hrs. (2:2) Identification, epizootiology and control of viral, bacterial, fungal, parasitic and nutritional diseases of commercially cultured molluscs, crustaceans and fish. Corequisite: Safety training given in SMTE 0092 - Biomedical Laboratory Safety
Seminar is required for continued participation in this course. Offered spring semester every year.

**FAMA 5322 - Aquaculture Business Planning**

_3 sem. hrs. (3:0)_ The application of selected economic and business principles, concepts, and tools of aquaculture-related ventures to maximize efficiency of operation and profitability. The student will examine start-up requirements of a farm, financing options, operational costs, and basic accounting and record keeping procedures. Offered spring semester of even-numbered years.

**FAMA 5324 - Quantitative Fisheries Methods**

_3:0 sem. hrs._ Modern ecological studies require quantitative data collection and analysis for various study objectives, such as abundance estimation, spatial/temporal patterns of dispersion, and species interaction and diversity measures. Data collection with an optimal and efficient sampling design is the first step to the success in those researches. In this course, different types of sampling designs and various quantitative methods will be taught for the students to learn and effectively to apply to their thesis and dissertation research projects in aquatic ecology. Offered on sufficient demand.

**FAMA 5327 - Marine Restoration Ecology**

_3 sem. hrs. (3:0)_ Overview of the rapidly expanding practice of restoring degraded marine, estuarine, and coastal ecosystems. Teaching methods will include lectures, discussion, paper critiques, field visits, and restoration plans. Course will explore ecological theory as it applies to restoration, restoration planning and implementation strategies, and controversies surrounding the practice of restoration. Offered fall semester every year.

**FAMA 5328 - Fisheries Ecology and Management**

_3 sem. hrs. (3:0)_ Advanced study of theory and techniques in fisheries science including behavior of fisheries populations and applications to resource management with emphasis in tidal-influenced waters. Includes readings in the current literature and a research project. Offered fall semester every year.

**FAMA 5329 - Fisheries Techniques**

_3 sem. hrs. 2:3_ Designed to provide students with practical experience in the theory and application of traditional and modern fisheries sampling and management techniques with an emphasis on practical sampling design and data interpretation. This is a hands-on
field and laboratory based course that will develop skills that are commonly used by fisheries scientists and sought be future employers. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester every year.

**FAMA 5332 - Aquatic System Design**

**3 sem. hrs. (3:0)** The study of aquatic system engineering and design for aquaculture farms, hatcheries, recirculating systems and research facilities. Additional topics covered include aquaculture site selection criteria and use of computer-aided design software. Offered fall semester of even-numbered years.

**FAMA 5336 - Dynamics and Quantitative Models of Aquatic Resources**

**3 sem. hrs. (3:0)** This course is designed to introduce the general theories of fish population dynamics and to train the relevant analytical and statistical methods for modeling the behaviors and processes of the natural fish populations under exploitation. Offered on sufficient demand.

**FAMA 5338 - Applied Fisheries Statistics**

**3 sem. hrs. (3:0)** Data analysis is a critical component in fisheries research and management. Throughout this course, the students will learn to practice the series of data analysis and techniques that are relevant to fisheries science, with the aids of the personal computer software. Offered spring semester of odd-numbered years.

**FAMA 5370 - Mariculture**

**3 sem. hrs. (3:0)** Survey of physiological, behavioral, environmental and economic parameters governing the culture of selected aquatic species. Included are techniques and methods employed worldwide to produce various marine species. Prerequisite: Minimum of 8 sem. hrs. of biology. Offered fall semester every year.

**FAMA 5392 - Thesis Proposal**

**3 sem. hrs.** Thesis students must submit a completed proposal for their thesis project. A course section will be created for the student to enroll. Upon successful completion and submission of the proposal signed by the graduate committee of the student, students may then register for FAMA 5393 - Thesis Research. Open only to MS Thesis Degree Candidates in Fisheries and Mariculture. Offered any semester upon request by a student and consent of the instructor.
FAMA 5393 - Thesis Research

3 sem. hrs. Implementation of the Thesis Proposal, and the production of a rough draft of the thesis submitted to the graduate committee of the student for initial editing and comment. A course section will be created for the student to enroll. Prerequisite: FAMA 5392 - Thesis Proposal. Offered any semester upon request by a student and consent of the instructor.

FAMA 5394 - Thesis Submission

3 sem. hrs. Completion of the final draft of the thesis, signed by the graduate committee of the student and ready for binding and distribution. A course section will be created for the student to enroll. Prerequisite: FAMA 5392 - Thesis Proposal. Prerequisite or Corequisite: FAMA 5393 - Thesis Research. Offered any semester upon request by a student and consent of the instructor.

FAMA 5397 - Professional Paper Submission

3 sem. hrs. Completion of the final draft of the professional paper (professional track students), signed by the graduate committee. A course section will be created for the student to enroll. Prerequisite: FAMA 5998 - Internship. Offered any semester upon request by a student and consent of the instructor.

FAMA 5421 - Chemistry of Natural Waters

4 sem. hrs. (3:3) The examination of water as an environmental medium and how it may be monitored and managed for maximizing the growth and survival of various aquatic species. Prerequisite: CHEM 1411 - General Chemistry I, or equivalent. Corequisite: Safety training given in SMTE 0093 - Chemistry Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester every year.

FAMA 5436 - Marine Ecological Processes

4 sem. hrs. (3:3) Advanced studies in structure and habitats of marine environments. Emphasis on factors influencing distribution of marine organisms, including field trips to areas along the Texas coast. Prerequisite: BIOL 3428 - Principles of Ecology or equivalent. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester every year.

FAMA 5590 - Special Topics
**FAMA 5596 - Directed Independent Study**

1-5 sem. hrs. Study in areas of mariculture or fisheries interest. Offered any semester upon request by a student and consent of the instructor.

**FAMA 5940 - Project Research**

1-9 sem. hrs. Research related to the MS project. Students can only apply 6 hours of credit toward the MS degree in Fisheries and Mariculture with approval of the committee. Course is taken credit/non-credit. Open only to degree candidates in FAMA with the consent of the graduate advisor. Offered any semester upon request by a student and consent of the instructor.

**FAMA 5998 - Internship**

1-9 sem. hrs. Professional Track students are required to undertake an extensive internship program with an approved agency, institution or commercial operation to develop skills and techniques relating to the culture of certain marine species. Opportunities will be in the specialization areas of maturation and reproduction, hatchery and incubation, and grow-out. Students will participate in internship activities at selected aquaculture facilities. Open only to M.S. professional track students in Fisheries and Mariculture. Offered any semester upon request by a student and consent of the instructor.

**Geology**

Graduate courses in geology are offered in support of graduate degree programs in Environmental Science, Coastal and Marine System Science and Education. For details concerning these particular degree programs, consult the College of Science and Engineering section of the catalog.

**For Additional Information**

Website: geology.tamucc.edu/
Campus address: Carlos F. Truan Natural Resource Center; Room 1100; Phone (361) 825-2681

Mailing address: Geology Program, Unit 5850
College of Science and Engineering
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5802

General prerequisite for 5000-level courses: graduate standing. Senior undergraduates in their last semester or summer session of undergraduate work may take 5000-level courses provided they have a cumulative grade point average of 3.0 or better, and that written approval is obtained from the dean of the college in which the work is offered.

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.

GEOL 6101 - Geology Seminar

1 sem. hrs. (1:0) An examination of concepts and theories in geology and their linkages to other disciplines such as environmental science, computer science, geographic information science, and education. Seminar themes may vary from year to year. May be repeated for credit but credit may be applied only once towards degree. Grade assigned will be "credit" (CR) or "no credit" (NC). Offered on sufficient demand.

GEOL 6308 - Coastal Geoenvironments and Change

3 sem. hrs. (3:0) Investigations of the origin, character, and processes of coastal geoenvironments with an emphasis on tracking historical and projecting future changes. Involves examination of the interactions of geological and biological processes and impacts of human activities on coastal depositional systems. Includes applications of remote sensing, ground studies, and GIS for mapping geoenvironments and analyzing change. Readings in current literature, day field trips, and a project. Offered on sufficient demand.

GEOL 6321 - Advanced Soil and Groundwater Restoration

3 sem. hrs. (3:0) Advanced study of methods for restoring contaminated soil and groundwater by examining the factors and processes influencing the efficacy of
remediation systems. An emphasis will be placed on the scientific principles upon which soil and groundwater remediation is based. Offered on sufficient demand.

GEOL 6322 - Advanced Geophysical Techniques Seminar

3 sem. hrs. (3:0) This graduate-level course is for coastal and marine systems science and environmental science majors and professional petroleum geologists who would like a better understanding of advanced geophysical techniques and principles available to geoscientist working subsurface problems. The course will consist of an examination of current topics, techniques, and software. New techniques and topics will be presented by geology staff and visiting experts working in those fields. Prerequisites: GEOL 4411 or equivalent and GEOL 4322, or permission of the instructor (students with appropriate professional work experience). Offered on sufficient demand.

GEOL 6336 - Groundwater Geochemistry

3 sem. hrs. (3:0) Principles of the geochemistry of groundwater including chemical thermodynamics. Characterization of the chemistry of natural and contaminated groundwater. Chemical measurements, analyses, and calculations. Includes readings in current literature and research on a selected topic. Prerequisite: GEOL 4444 or equivalent. Recommended: GEOL 6418. Offered on sufficient demand.

GEOL 6418 - Advanced Environmental Geology

4 sem. hrs. (3:2) Advanced study of humans' relationship with the physical environment of the Earth's surface. Geologic aspects of disease, waste disposal, resources, conservation, and land reclamation. Includes readings in current literature and research on an environmental issue. Offered on sufficient demand.

GEOL 6434 - Groundwater Monitoring and Contaminant Hydrogeology

4 sem. hrs. (3:2) Principles of siting, construction, and installation of monitoring wells in both the saturated and vadose zones. The use of monitoring wells for characterization of subsurface contamination. Includes readings in current literature and research on a selected topic. Prerequisite: GEOL 4444 or equivalent. Recommended: GEOL 6418. Offered on sufficient demand.

GEOL 6436 - Principles of Petroleum Geology

4 sem. hrs. (3:2) Basic concepts of petroleum geology and techniques used in the exploration and production of hydrocarbon systems. Lectures 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 or permission of instructor. Recommended: GEOL 4421 and GEOL 4322. Offered on sufficient demand.

GEOL 6437 - Computer Applications and Modeling in Hydrogeology

4 sem. hrs. (3:2) Principles of analytical and numerical modeling in hydrogeology. Use of available software for aquifer test solutions, aquifer simulation modeling, and mass transport. Completion of modeling projects. Includes readings in current literature. Prerequisite: GEOL 4444 or equivalent. Recommended: GEOL 6418. Offered on sufficient demand.

GEOL 6438 - Mass Transport Modeling in Hydrogeology

1-4 sem. hrs. (3:3) Principles of numerical modeling of mass transport in groundwater systems. Use of software and computer systems for numerical simulations. Laboratory time devoted to completion of modeling projects. Includes readings in current literature. Prerequisite: GEOL 6437. Offered on sufficient demand.

GEOL 6490 - Advanced Topics

1-4 sem. hrs. (1:0-3:2) Subject varies. Advanced topics including current literature research. May be repeated for credit when topics are sufficiently different. Prerequisite: Permission of instructor. Offered on sufficient demand.

GEOL 6596 - Directed independent Study

1-5 sem. hrs. Study in areas of current interest. Fall, Spring, Summer.

Geospatial Computing Science

GSCS 6102 - Graduate Seminar

1 sem. hrs. Advanced topic study and presentation by students, faculty, or visiting scientists. Meets one hour weekly. Must be taken three times by all GSCS PhD students.

GSCS 6321 - Geospatial Data Structures
The representation of spatial data is an important issue in diverse areas including computer graphics, geographic information systems (GIS), robotics, and many others. Choosing an appropriate representation is a key to facilitate operations such as spatial search. This course will focus on representation of point data and object data, which are the important types of spatial data. Various fundamental data structures on spatial data, such as quadtrees, kd-trees, grid structures, kd-trees, and R-trees will be explored. The use of these structures to address some important problems will also be covered.

GSCS 6329 - Scientific Visualization

3 sem. hrs. (3:0) This course presents principles and methods for visualizing data resulting from measurements and calculations in both the physical sciences and the life sciences. The emphasis is on using 2D and 3D computer graphics to garner insight into multi-dimensional data sets for understanding and solving scientific problems. Topics include visualization software and techniques, human vision attributes and limitations, data encoding, data representation, volume rendering, flow visualization, and information visualization.

GSCS 6331 - Advanced Geospatial Computing

3 sem. hrs. (3:0) Seminar in reading and critical evaluation of academic literature in the field of and fields relating to geospatial computing. Student will design, implement, and evaluate an advanced, contemporary geospatial computing technology to solve a geospatial problem.

GSCS 6344 - Ubiquitous Positioning

The aim of this course is to introduce the principle of positioning indoors/outdoors using sensors and short-range radio frequency signals in smartphones. These sensors will include a GNSS receiver, an accelerometer, a gyroscope, a magnetometer, a barometer, and a camera, why short-range RF signals will include WiFi and Bluetooth signals. The course will concentrate on various positioning algorithms for fusing sensor measurements and RF signal measurements. GSCS5321 - Advanced Geospatial Computing

GSCS 6390 - Special Topics
3 sem. hrs. (3:0) Variable content study of specific areas of geospatial computing science. May be repeated for credit when topics vary. Offered on sufficient demand.

GSCS 6996 - Research

3 sem. hrs. (arr) Independent research conducted under supervision of an advisor. Open to Geospatial Computing Science students who have not yet passed the qualifying exam and with consent of their graduate advisor. The course is graded with an S or U, and may be repeated.

GSCS 6998 - Dissertation Research

1-9 sem. hrs. Research related to PhD dissertation. Open only to degree candidates having passed the qualifying exam in Geospatial Computing Science with consent of their graduate advisor. The course is graded with an S or U, and may be repeated. Permission of instructor.

GSCS 6999 - Dissertation Defense

1-9 sem. hrs. Open only to degree candidates in Geospatial Computing Science with consent of their graduate advisor. Students should enroll in this course during their last semester of the GSCS PhD program. To successfully complete this course the student must pass the dissertation defense as well as have a final copy of the dissertation signed by the full graduate committee and approved for binding and distribution. A grade of Credit/No Credit will be assigned for the class with the possibility to assign the grade of IP or In Progress. If a grade of IP is assigned, the course must be repeated the following semester(s) until the course is passed. Permission of instructor.

Geospatial Surveying Engineering

GSEN 5300 - Bases of Geographic information Systems

3 sem. hrs. (3:0) Basic principles and concepts of GIS via fundamental geographic and cartographic concepts. Understanding and use of GIS software to analyze data and produce maps. May not apply for credit toward the GSEN-MS degree.

GSEN 5355 - Design and Analysis of GIS Applications
3 sem. hrs. (3:0) Programming course focusing on the design and implementation of GIS scripts. Topics covered include GIS scripts, GIS tool creation, and user interface design and implementation.

GSEN 5365 - Spatial Database Design

3 sem. hrs. (3:0)
An introduction to spatial database principles and the practical skills of design implement, and use of spatial databases. Topics covered include basic database model, spatial database design and management, spatial indexes, and spatial data mining. Advanced knowledge and skills in spatial databases are also covered.

GSEN 5381 - Cadastral Information Systems

3 sem. hrs. (3:0) A review of the evolution of European cadastral systems and land records traditions and alternatives. Examination of the goals and purposes of land tenure systems with attention to social, political, legal, economic, organizational, and technical issues. Exploration of U.S. modernization efforts and the problems of developing countries.

GSEN 5382 - Policy and Legal Aspects of Spatial Information Systems

3 sem. hrs. (3:0) A study of the current and emerging status of computer law in electronic environments. Covers issues related to: privacy, freedom of information, confidentiality, copyright, and legal liability; the impact of statute and case law on use of digital databases and spatial databases; and research of legal options of conflicts related to spatial data.

GSEN 5383 - Advanced Geospatial Analysis and Design

3 sem. hrs. (3:0)
An advanced course that focuses on spatial analysis and modeling in GIS. Topics covered include exploratory analysis of spatial data, network analysis, exploring spatial point patterns, area objects and spatial autocorrelation, spatial interpolation, and spatial regression. New approaches to spatial analysis are also covered.

GSEN 5384 - Geospatial Visualization Design

3 sem. hrs. (3:0) Basic elements of thematic cartography, cartographic theory, and cartographic projections. Integration of cartographic principles with GIS visualization. Principles of map design with GIS data.
GSEN 5385 - Analytical and Digital Photogrammetric Engineering

3 sem. hrs. (3:0) A study of the mathematical and geometric models of modern photogrammetry. Covers principles of stereoscopic vision, collinearity, coplanarity, epipolar geometry, ground control densification and extension by analytical aerotriangulation. Explores automation in photogrammetric procedures - digital aerotriangulation, automated data capture.

GSEN 5386 - Problems in Remote Sensing of the Environment

3 sem. hrs. (3:0) Advanced problems in photo interpretation, photogrammetry and remote sensing within a GIS. Topics include utilization of expert computer systems, knowledge based environmental modeling, macro languages and spatial modeling languages. Operations and laboratories will cover mathematical operations on raster layers, convolution filtering, neighborhood analysis, principal components, proximity, contiguity and descriptor table manipulation. Final project includes the development of a remote sensing of the environment software program with a graphical user interface.

GSEN 5387 - Geospatial intelligence Techniques

3 sem. hrs. (3:0) Research into geospatial intelligence tools used to assist the NGA in addressing the Intelligence Community's needs. Topics will include change detection and motion determination for terrestrial and aerial images, intelligent image classification and categorization, and other advanced topics. Study of the sensors systems utilized in the GEOINT with multi-deployment and real-time reporting will be examined.

GSEN 5388 - Geospatial Internet Engineering

3 sem. hrs. (3:0) Projects will be developed that work on investigation of GEOINT being shared, scoped, or provided through the internet. Data acquisition via "Honey Pots", IP HiJacks, Spoofs, and other method will be investigated. A method to take future GPS positioned terrestrial images into GEOINT areas on the web will be investigated.

GSEN 5390 - Advanced Topics

3 sem. hrs. (3:0) Variable content study of specific areas of geospatial surveying engineering. May be repeated for credit when topics vary. Offered on sufficient demand.

GSEN 5395 - Graduate Project Research and Proposal

3 sem. hrs. (3:0) Preparatory and developmental research for the Graduate Thesis or creative project resulting in the preliminary design and formal proposal of the graduate
project. This thesis or a creative project proposal must be reviewed and approved by the project chairperson to receive credit. Offered on a credit/no-credit basis only. Students are required to complete a major field assessment test. Credit will not be recorded until the Graduate Project Proposal is approved by the Graduate Project Committee Chair.

**GSEN 5396 - Directed Independent Study**

*3 sem. hrs. (3:0)* Study in areas of current interest. Prerequisite: Permission of the Program Coordinator. (A maximum of six hours may be counted toward the MS degree.)

**GSEN 5993 - Graduate Creative Project**

*3 sem. hrs. (3:0)* An applied research group project in geospatial surveying engineering from problem definition to implementation in an area provided by faculty in the course of study. Prerequisites: GSEN 5395 and formal approval of graduate project proposal. Offered on a satisfactory/unsatisfactory (S/U) basis only, with grade of IP until completed. Credit will not be recorded until project report is accepted by the Graduate Project Committee. May be repeated for credit. Prerequisite: Permission of the Program Coordinator.

**GSEN 5998 - Graduate Thesis**

*3-6 sem. hrs.* An applied research project in geospatial surveying engineering from problem definition to implementation in an area of particular interest to the student that relates to the course of study. Prerequisites: GSEN 5395 and formal approval of Graduate Thesis proposal. Offered on a satisfactory/unsatisfactory (S/U) basis only, with grade of IP until completed. Credit will not be recorded until thesis is accepted by the Graduate Project Committee. May be repeated for credit. Prerequisite: Permission of the Program Coordinator. (See Graduate Thesis procedure under "Chronological Procedure Leading to the MS degree."

**Health Care Administration**

**HCAD 5312 - The Health Care System**

*3 sem. hrs. (3:0)* Focus on the major components of the American health care system and related issues in the administration of care delivery. Policy information and political issues are discussed.

**HCAD 5320 - Health Economics and Policy**
3 sem. hrs. (3:0) Analysis and evaluation of classical and modern economic theory, principles and procedures applicable to the health care delivery system and their implications for public policy. This course is delivered through online technology.

**HCAD 5325 - Health Care Financial Management**

3 sem. hrs. (3:0) Survey of basic financial management techniques used in health care administration. Provides an understanding of cost analysis, strategic planning and forecasting techniques. This course is cross-listed with NURS 5360. This course may be delivered through online technology.

**HCAD 5330 - Health Law and Ethics**

3 sem. hrs. (3:0) A study of the legal and related ethical aspects of the health care delivery system including governing boards, liabilities, consent and malpractice as well as other related topics. Current governmental, state and other regulating bodies are presented. This course is delivered through online technology.

**HCAD 5390 - Health Care Selected Topics**

3 sem. hrs. (3:0) In-depth study and discussion of various topics relevant to health care administration. May be repeated when topics vary.

**HCAD 5396 - Directed Independent Study**

3 sem. hrs. (3:0) See College Description. Prerequisite: Permission of the instructor.

**History**

**HIST 5310 - Historiography**

3 sem. hrs. A study of the literature of history with attention to the differing methodological approaches and their evolution over time. Required of all graduate students in history.

**HIST 5320 - Research Methods**

3 sem. hrs. Students will develop and practice research skills using primary sources and write an original research paper. Topics will vary according to the course instructor. Required of all graduate students in history.
HIST 5323 - Seminar: the Gilded Age

3 sem. hrs. Thematic seminar examining the late-nineteenth century America. Topics include the New South, the closing of the frontier, corporate enterprise and its effects on work and society, the party system, populism, the city, and overseas expansion.

HIST 5324 - Seminar: U.S. Modern Popular Culture

3 sem. hrs. Explores leading examples of U.S. modern popular culture from the late nineteenth century to the present, with attention to interpretations and theories that help explain cultural change. Topics include consumerism, motion pictures and television, sports, music, and popular literature.

HIST 5325 - Seminar: U.S. Diplomatic History Since 1898

3 sem. hrs. Examines U.S. foreign relations in the twentieth century, emphasizing trends and shifts in the historical literature, the dynamics of an increasingly complicated global environment, and the ever-changing U.S. role within that environment.

HIST 5328 - Seminar: Mexican American History

3 sem. hrs. A study of the events, personalities, organizations, and individuals that have been critical in the development of the modern Mexican American community. Emphasizes politics and organization building.

HIST 5329 - Seminar: United States Women's History

3 sem. hrs. A seminar that will include readings on women’s historiography, and also will address several key topics in American women’s history, including: plantation, slave, and immigrant women, activism, sexuality, work, religion, politics, societal prescriptions of femininity, and mass cultural influences.

HIST 5331 - Seminar: U.S. From 1945 to Present

3 sem. hrs. A study of U.S. social, political, cultural, and economic history in the decades following World War II. Topics include the Cold War, foreign relations, the Civil Rights movement, Vietnam, and the Sixties.

HIST 5333 - Seminar: Early American History

3 sem. hrs. Examines early American history from European contact through the American Revolution. Topics and themes include slavery, class, gender, environmental
history, religion, the movement of peoples, the encounter between Indians and Europeans, and the formation of democratic institutions.

**HIST 5336 - Seminar: United States Urban History**

3 sem. hrs. A study of the geographic, economic, social, and political development of American cities, the structuring of the country's urban networks, and the evolution of American urban life.

**HIST 5337 - Seminar: Religion and Society in Early America**

3 sem. hrs. Examines the religious history of early America from European contact through the antebellum period, with a focus on the vibrant religious cultures early Americans created and the ways they used religion to understand themselves and order their world.

**HIST 5338 - Seminar: History of American Education**

3 sem. hrs. A thematic seminar that examines the history of American public education since the 19th century. Topics include the role of the state in educating citizens, common schools, the feminization of teaching, vocational education, immigrant education, bilingual education, school desegregation, and urban school movements.

**HIST 5341 - Seminar: Modern Germany**

3 sem. hrs. Recent literature and problems in Modern German history. Topics include recent debates over the “peculiar” nature of German history, political sociology of German fascism, the character of the Nazi state, and social foundations of the Holocaust.

**HIST 5342 - Seminar: European Urban Culture and Society**

3 sem. hrs. Examination of recent methods and approaches in European urban, social, and cultural history. Topics include the “new” cultural history, formation of national and regional identities, urbanization, and women in politics and society.

**HIST 5351 - Seminar: Colonial Mexico**

3 sem. hrs. An examination of economic, social and political developments in colonial New Spain, as well as an attempt to place New Spain in a larger regional context.

**HIST 5352 - Seminar: the Mexican Revolution**
3 sem. hrs. Explores the dynamics of this important twentieth century popular revolt and its influence on the emergence of contemporary Mexican national identity.

HIST 5355 - Youth and Protest in the Americas

3 sem. hrs. An examination of recent approaches to the study of youth in Latin America and North America. Explores youth activism as a window into understanding how age functions as a category of analysis. Topics include university reform movements, consumer culture, and labor struggles.

HIST 5360 - Public History: Corpus Christi and South Texas

3 sem. hrs. A discussion of the role and use of history outside traditional academic settings. Introduction to the work of historical associations, historic preservation, historic editing, museums and archives, and oral history, with discussion of techniques for incorporating such resources into teaching.

HIST 5370 - Oral History: Techniques and Practice

3 sem. hrs. An introduction to the methodology and practice of planning, conducting, editing, and transcribing interviews with eyewitnesses to or participants in historic events, highlighting Corpus Christi and the South Texas region.

HIST 5371 - Seminar: Slavery in the Americas

3 sem. hrs. Compares and contrasts the slave experience in various New World societies.

HIST 5372 - Seminar: Pacific Rim

3 sem. hrs. Examines critical intersections among the histories of Asia, the Pacific, and the Americas since the turn of the nineteenth century, with a focus on interdisciplinary theoretical and methodological approaches to human migration, critical race and ethnic studies, war and colonialism, gender ideology, and borderland studies in transnational and diasporic contexts.

HIST 5373 - Seminar: Modern East Asia

3 sem. hrs. Designed to help students develop bibliographical and historiographical command of modern East Asian history, the course examines the recent scholarly literature on the paradigm of modernization, colonialism, revolution, gender, class, and historical memory in the region's three principal states-China, Korea, and Japan.
HIST 5380 - Seminar in History

3 sem. hrs. An intensive study of selected issues, periods, regions, or themes in history based on independent reading, research, and writing by the student. May be repeated when topics vary. This course is delivered either in classroom or through online technology. When delivered through online technology, students must have access to a computer and Internet to complete course work.

HIST 5390 - Internship in History

3 sem. hrs. A hands-on experience in historical work. Arranged in consultation with the student's advisor. May be repeated when topics vary. Prerequisite: HIST 5360 and approval of student's graduate committee. Grade assigned will be “credit” (CR) or “no credit” (NC).

HIST 5395 - Thesis

3 sem. hrs. May be repeated once for credit. Prerequisite: approval of student's graduate committee. Grade assigned will be “credit” (CR) or “no credit” (NC).

HIST 5396 - Individual Study

3 sem. hrs. Individual study, reading or research with faculty direction and evaluation. Topic must not duplicate regular graduate courses and must be in the field of expertise of the instructor. Maximum 6 hours in any degree plan. Offered on application to and approval of the program coordinator.

Interdisciplinary Study

EDUC 5393 - Internship I and Seminar for the intern Teacher

3 sem. hrs. This course is a supervised classroom teaching field experience and seminar designed to assist the non-certified teacher with the application of various aspects of planning for teaching. Enrollment is limited to graduate students seeking initial teacher certification. Interns must be enrolled in EDUC 5352 - Planning, Teaching, Learning Processes (or have completed EDUC 5352 - Planning, Teaching, Learning Processes) and completed 30 contact hours of field observation.

EDUC 5394 - Internship II and Seminar for the intern Teacher
3 sem. hrs. This course is a supervised classroom teaching field experience and seminar designed to assist the non-certified teacher with the application of classroom management techniques, and enhance existing teaching skills. Enrollment is limited to graduate students seeking initial teacher certification. Prerequisite: EDUC 5393 and EDUC 5352. Interns must be enrolled in EDUC 5357 or have completed EDUC 5357.

EDUC 5397 - Practicum I for the Beginning Teacher

3 sem. hrs. Practicum This is a supervised classroom teaching field experience designed to enhance the individual teacher's existing teaching skills for the beginning teachers during their third year on a "Probationary Certificate." Enrollment is limited to certified teachers on a TEA "Probationary Certificate," but currently in teaching positions. This course is taken concurrently with EDUC 5327 first semester of the third year on a "Probationary Certificate." This course may not be taken for graduate credit if the student has taken EDUC 5393, EDUC 5394 or EDUC 5395. Prerequisites: EDUC 5327 - Strategies of Success I for the Beginning Teacher, EDUC 5393 - Internship I and Seminar for the intern Teacher, EDUC 5394 - Internship II and Seminar for the intern Teacher, and EDUC 5395 - Strategies of Success II for the Beginning Teacher.

EDUC 5398 - Practicum II and Seminar for the Beginning Teacher

3 sem. hrs. Practicum Beginning teachers who are currently in their third year of a "Probationary Certificate" are provided with additional skills to enrich their classroom teaching proficiency through seminars and supervised supervision for effective classroom teaching. Enrollment is limited to certified teachers on a TEA "Probationary Certificate," but currently in teaching positions. This course is taken during the second (and final) semester of the third year on a "Probationary Certificate." Prerequisite: EDUC 5327 EDUC 5393, EDUC 5394, EDUC 5395, and EDUC 5397.

EDUC 5696 - Directed Individual Study

1-6 sem. hrs. lecture Contemporary issues in educational technology; topics vary with professional interests and needs of participants. This "hybrid" course focuses upon enabling students to design effective instructional activities and materials for on-line instruction within a learning management system (LMS) environment. Students will acquire research-based knowledge about the design and development of effective on-line instruction which is consistent with established best practices. Emphasis will be placed upon development of on-line instruction in curricular areas specified by the instructor or selected by the student, subject to instructor approval. NOTES: This course is appropriate for students who have previously completed IDET 5360, Introduction to Designing On-line Courses, or for those who are taking IDET 536 concurrently with the present
course. There are no prerequisites for this course. This course-IDET 5390, Professional Seminar is included as a core course in the official degree plan for the Master of Science Degree in Instructional Design and Educational Technology. It is not an elective and is occasionally offered based upon student interest and emergent trends in the field of study.

**IDSY 5311 - Research in the Social Sciences**

*3 sem. hrs.* Examination of analytical methods, research techniques, and models of inquiry in the social and administrative sciences. Topics may include problem definition; needs assessment; data gathering, processing and interpretation; survey research; secondary analysis; and demographics. Assumes computer literacy and completion of an introductory statistics course, or equivalent, prior to student's entry into the class.

**IDSY 5350 - Graduate Teaching Assistant Workshop: Teaching College Freshmen**

*3 sem. hrs.* To prepare graduate teaching assistants for full classroom responsibility in freshmen level courses. Topics include university faculty responsibilities, classroom and office time management, gender and cultural awareness, academic rules and regulations, writing across the curriculum, and instructional activities. This course serves primarily as a training class for Seminar Leaders and does not automatically count toward MAIS degree requirements. Students must receive approval from the program coordinator and their degree committees before credit for IDSY 5350 can be applied to their degree plan. Only students admitted to the Master of Arts in Interdisciplinary Study program may enroll in the following courses. Before registering for these courses, a student must have completed 18 hours of graduate work. In addition, the student must obtain faculty advisor committee approval by submitting a written proposal for the work to be undertaken during the semester.

**IDSY 5395 - Thesis**

*3 sem. hrs.* Thesis. May be taken twice, in two separate semesters. Prerequisite: approval of the student’s MAIS degree committee. Grade assigned will be “credit” (CR) or “no credit” (NC).

**IDSY 5396 - Individual Study**

*3 sem. hrs.* Interdisciplinary research under the direction of and evaluated by the student's degree committee. (For individual study, reading, or research in a specific area of study, see discipline courses.) Students should take no more than 2 DIS courses for the program.

**IDSY 5397 - Interdisciplinary Project**
3 sem. hrs. A performance or an exhibit displaying competencies acquired as a result of studies related to the student's area of concentration and is to be evaluated by the student's degree committee. Offered by application to the program coordinator. The application, accompanied by the project proposal, is due the last class day of the semester preceding enrollment. Grade assigned will be “credit” (CR) or “no credit” (NC).

IDSY 5398 - Internship

3 sem. hrs. An interdisciplinary oriented internship experience under the direction of and evaluated by the student's degree committee. Offered on application to the program coordinator. Grade assigned will be “credit” (CR) or “no credit” (NC).

Kinesiology

KINE 5301 - History and Philosophy of Kinesiology

3 sem. hrs. A study of the general historical and philosophical perspectives and influences as they relate to kinesiology. This course will also explore the historical influence of gender and multicultural (diversity) issues that impacted philosophical perspectives in the field of kinesiology and the study of movement over time.

KINE 5306 - Sport Nutrition

3 sem. hrs. This course is designed to provide scientific evidence for the use of nutrient ingestion to enhance sport performance and maintain optimal health. Special emphasis will be placed on the chemical and biological changes caused by the ingestion of specific nutrients. In this course the student will learn to utilize current nutrition research to enhance the athlete's energy systems within various categories of sport.

KINE 5307 - Research Design in Kinesiology

3 sem. hrs. The application of fundamental research methods to the design and development of a research proposal in kinesiology.

KINE 5308 - Leadership in Kinesiology

3 sem. hrs. Principles, practices and applied procedures in the organization, administration and supervision of school physical education programs.

KINE 5310 - Sport in Society
3 sem. hrs. A perspective of the nature and value of the study of the sociological aspects of sport. This course is designed to enhance the knowledge and methodology of research in sport sociology. Also explores emerging social issues that are germane to a sports environment and discusses solutions to those problems.

**KINE 5311 - Statistics in Kinesiology**

3 sem. hrs. A study of basic statistical concepts and their application to research problems in kinesiology. Topics include issues related to descriptive and inferential statistics. Prerequisite: KINE 4311 Measurement and Evaluation or a department approved statistics course.

**KINE 5312 - Sport Physiology**

3 sem. hrs. This course expands basic undergraduate exercise physiology principles and focuses on the role of exercise physiology in sports performance, applied and research settings. Prerequisite: KINE 4312 Exercise Physiology of Sport Performance.

**KINE 5313 - Assessment and Evaluation of Athletic Performance**

3 sem. hrs. Lecture An advanced assessment course designed to provide techniques for physiological, athletic, and sport-specific tests associated with athletic performance. Test selection, test administration, data analysis, and appropriate evaluation techniques will be presented.

**KINE 5314 - Principles of Strength and Conditioning**

3 sem. hrs. The purpose of this course is to provide theoretical and practical knowledge of the physiological, biomechanical, and administrative aspects of designing and supervising strength and conditioning programs for various populations.

**KINE 5315 - Concepts in Sport Business**

3 sem. hrs. Lecture An applied course designed to provide macro business theories and techniques specifically for the sport professional. Sport business models, financial systems, managerial procedures, and promotion concepts are addressed.

**KINE 5316 - Finance Management in Sport**

3 sem. hrs. lecture An in-depth analysis of the various tools, techniques, ratios, formulas, and other finance related information students will need to understand and
master in order to handle complex financial concerns in the workplace. The sport industry is a multi-billion dollar industry that generates revenue from areas ranging from youth sport to facility construction and much more. This course will examine how money helps drive sport and facility businesses and why those who can understand and apply financial management techniques will be more capable employees.

**KINE 5317 - Global Perspectives in Sport**

*3 sem. hrs. lecture* This course is an interdisciplinary examination of sport as a global phenomenon. Historical, cultural, economic and governance perspectives are considered.

**KINE 5318 - Sport Media and Broadcast Relations**

*3 sem. hrs. lecture* This course introduces students to the field of sport communication. They will learn about career options in this field. The course covers management, mass media, support services, entertainment and ancillary opportunities. In addition, this course introduces students to the process and practices of business communication through a conceptual and practical internal and public relations approach. Students are required to complete a number of writing and oral communication assignments including: 1) planned writing assignments to enhance students' writing skills, 2) improved writing skills as a course objective, 3) structured written instructions and evaluation criteria for assignments, 4) detailed instructions in conceiving, organizing, and presenting written material in ways appropriate to sport management organizations, 5) revised and peer reviewed assignments, and 6) graded written assignments as a major part of the grade.

**KINE 5325 - Program Design for Resistance Training**

*3 sem. hrs. lecture* This course presents information on the process of designing scientifically based resistance training programs, modifying and adapting programs to meet the needs of special populations, and understanding how designing programs works in the real world.

**KINE 5327 - Sport Biomechanics**

*3 sem. hrs.* An interdisciplinary approach to the qualitative analysis of human movement. Emphasis will be placed on the utilization of video capture and motion analysis software.

**KINE 5330 - Sport Promotion, Sponsorship and Licensing**

*3 sem. hrs. lecture* 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.

**KINE 5338 - Motor Development in Sport**

3 sem. hrs. A study of the theory and application of human motor development as it applies to the acquisition of motor skills as humans age. The course also addresses the regression processes of aging.

**KINE 5340 - Sport Psychology**

3 sem. hrs. A study of the theory and application of psychology as it applies to human behavior in sport and physical activity.

**KINE 5390 - Professional Seminar**

1-3 sem. hrs. Contemporary issues in Kinesiology: topics vary with professional identification of participants.

**KINE 5394 - Professional Field Experience**

3 sem. hrs. A graduate-level field-based experience to provide the student the opportunity to apply knowledge and theory related to exercise and sport science. This course is an elective course and listed in the Supplemental Course section of the degree plan. This course may also be taken at any time during the student's degree with approval of their faculty mentor.

**KINE 5397 - Graduate Research Project in Kinesiology**

3 sem. hrs. The research project is an alternative to the thesis and three semester hours of credit. The project should be completed in one semester of work with the possibility of more time depending upon the student's topic and design. This is an involved process and the final product includes: 1) Journal Abstract; 2) Journal Manuscript (choice of journal is decided by project chair); 3) Poster Presentation; and 4) Power Point Presentation (Defense). Unlike the thesis, all students that are fully accepted to the program automatically are eligible for the research project. Prerequisites: KINE 5307 and KINE 5311.

**KINE 5696 - Directed individual Study**

1-6 sem. hrs. Thesis in progress requires departmental approval. Investigative study on selected problems by students with particular needs. May be repeated when topics vary.
Programs will be designed for individual cases through special permission of the Department Chair and Dean.

KINE 5698 - Thesis in Progress

3-6 sem. hrs. Students are required to successfully complete a thesis under the direction and supervision of their thesis chair and committee members. The thesis will require a minimum of two semesters of work and possibly more depending upon their topic and design, thus students will be allowed to register for three hours each semester. The thesis option is designed for students that want to gain extensive experience in research and/or greater knowledge about a specific topic area. It is also designed for those that anticipate more advanced research (e.g., Ph.D.). Upon completion of their work there is a thesis defense. The final product includes: 1) Journal Abstract; 2) Journal Manuscript (choice of journal is decided by thesis chair); 3) Poster Presentation; and 4) Power Point Presentation (Defense). Prerequisites: KINE 5307 and KINE 5311.

Management

MGMT 5310 - Organizational Behavior and Communication

3 sem. hrs. Introduction to essential management and communication functions within the business firm and its environment. Topics include basic principles of organization behavior and management, the process of research, communication and management decision making, and issues in the global business environment. (This is a core course.)

MGMT 5320 - Organizational Behavior and Theory

3 sem. hrs. The study of individual, group, and intergroup behavior within organizations. Issues discussed include personality differences, power, politics, interpersonal relations, conflict management, work environment, satisfaction, performance, and team building. Prerequisites: MGMT 5310 or equivalent.

MGMT 5335 - Multinational Management

3 sem. hrs. A study of the values, relationships, social structures and cultural differences that affect the application of management processes in different international environments. Attempts are made to distinguish problems that stem from organizational goals and those due to cultural factors. Prerequisites: MGMT 5310 or equivalent.

MGMT 5350 - Entrepreneurship
3 sem. hrs. An analysis of the organization and operation systems appropriate to owner-operated business firms. Business functions are examined with particular attention given to establishing and operating the firm.

MGMT 5355 - Administrative Strategy and Policy

3 sem. hrs. An analysis of strategic decision making, policy, and strategy. Focus is on the integrative and multi-functional nature of organizational strategy decision. Intensive analysis of the influence of administrative decisions on organizational outcomes. Must be taken at the end of the program after completion of all advanced, non-elective courses. In unusual circumstances, it may be taken concurrently with the final non-elective courses with the written permission of the Director of Master’s Programs.

MGMT 5360 - Human Resource Management

3 sem. hrs. An analysis and critique of concepts, theories and practices in human resource management, including employment planning, selection and placement, training and development, compensation systems, and performance appraisals.

MGMT 5370 - Seminar

1-3 sem. hrs. Seminar in an identified topic in management. May be repeated for significantly different topics with written permission from the Director of Master's Programs. Prerequisite may vary depending on topic.

MGMT 5396 - Directed individual Research Or Readings

1-3 sem. hrs. Contact Director of Master's Programs.

Management Information Systems

MISY 5325 - Software Based Business Solutions

3 sem. hrs. Study of computer-based technologies for facilitating the analysis and evaluation of business problems. Provides the student with a case-driven analysis of evaluating and selecting the appropriate software tool to match the required management application. Software coverage may include a variety of available packages, such as word processing, spreadsheets, databases, ftp, e-mail, and electronic presentation. Prerequisites: MISY 2305 or equivalent.
MISY 5330 - Website Development for E-Commerce

3 sem. hrs. 3:0 This course provides an understanding of the principles and techniques for client-side development using HTML, XHTML and CSS. Text editors and the software tools such as Dreamweaver will be used. This course includes designing for web standard, accessibility, usability, and workflow for web design. Prerequisite: Graduate standing.

MISY 5335 - Business Data Base Management

3 sem. hrs. Concepts and methodology of data base planning, design, development, and management of the computerized data base for business-oriented applications. The logical models of hierarchical and network data bases are presented, but the emphasis is on the relational data base model. Exercises and assignments will be completed utilizing a relational DBMS package. Prerequisite: MISY 2305 or equivalent.

MISY 5340 - Electronic Commerce

3 sem. hrs. A study of the concepts of doing business via the Internet. General topics include electronic commerce history, opportunities, limitations, and risks. Technical discussions include the Internet, intranets, extranets, electronic payment systems, firewalls, security, protocols, servers, browsers, and ethics. Prerequisite: MISY 2305 or equivalent.

MISY 5345 - Business Data Communication Systems

3 sem. hrs. Characteristics of contemporary business data communication components, their configurations, and their impact on business-oriented applications. Includes the design, implementation and operation of peer-to-peer, and client-server network systems for organizational Intranets and Internet presence. Exercises and assignments will be completed using selected data communications facilities. Prerequisite: Graduate standing.

MISY 5350 - Managing the Information Systems Function

3 sem. hrs. This course provides an understanding of the role of information systems in businesses today. The focus of the course will be on management issues related to information systems. Major topics that will be covered include e-commerce, data management, networks, and management information systems.

MISY 5355 - Business Intelligence and Analytics
3 sem. hrs. Overview of important concepts of business intelligence, and the use of analytics, technologies, applications and processes used by organizations to gain data-driven insights. These insights and predictions can be used to aid decision-making and performance management across functional areas, including marketing, operations, and finance. Students will learn to extract and manipulate data, and create reports, scorecards and dashboards, including mobile apps. Prerequisite: Graduate standing.

MISY 5356 - Systems Analysis and Design

3 sem. hrs. 3:0 This course develops the student's ability to analyze and manage an existing information system within an organization, to identify information requirements, and to specify the functions of a new information system. Include cost/benefit analysis of proposed information systems. Exercises and assignments will develop the student's systems analysis and design skills. Prerequisite: Graduate standing.

MISY 5360 - Business Application Development

3 sem. hrs. 3:0 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. Prerequisite: Graduate standing.

MISY 5365 - Enterprise Resource Planning

3 sem. hrs. 3:0 A study of the management of information technology as it is practiced in organizations today. Traditional organizations are moving toward a more interconnected or networked business environment. A major focus is understanding the role and use of complex technology in the support of individual, workgroup, enterprise, inter-enterprise and international computing. This course will utilize a business process management approach through the use of enterprise software. Prerequisite: Graduate standing.

MISY 5366 - Data Warehousing and Data Mining for Business Intelligence

3 sem. hrs. 3:0 In the information age, organizations can and do collect massive amounts of data. Yet organizations are often "data rich" but "information and knowledge poor." This course is designed to prepare business professions who, by using analytical methods and data mining and data visualizations tools such as XLMiner, SAP Lumira and SAP Hana, will be able to harness the potential of data by extracting business intelligence that can be used to improve decisions and operations at various points in the value chain. Prerequisites: MISY 5325, MISY 5335 and ORMS 5310

MISY 5367 - Managing IT Projects
**3 sem. hrs. 3:0** This course covers issues related to managing projects in organizations. The course focuses on the management of projects and working as a team. Students are expected to draw on materials from other management information system courses, especially the Systems Analysis and Design, and Database Management courses. Prerequisite: Misy 5335 Business Database Management

**MISY 5370 - Seminar**

**1-3 sem. hrs.** Seminar in an identified topic in management information systems. May be repeated for significantly different topics with written permission from the Director of Master’s Programs. Prerequisite may vary depending on topic.

**MISY 5396 - Directed individual Research Or Readings**

**1-3 sem. hrs.** Contact Director of Master's Programs.

**Marine Biology**

Graduate standing is required for enrollment in 5000 and 6000-level courses. Exceptions can be made for outstanding undergraduate students with the Dean’s consent. For details, see “Graduate Study by Undergraduates” in the catalog section titled “Academic and Degree Requirements.” Weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the semester hours when appropriate. The laboratory hours shown are instructional time. In most cases, additional laboratory time will be required to complete assigned work. Prerequisites for entry into a course are indicated, but may be waived with permission of the instructor.

**Graduate Credit from other Disciplines and other Campuses**

Graduate students in the MS/PhD Marine Biology program may take courses from other disciplines such as BIMS, BIOL, CHEM, ESCI, GISC, FAMA, MATH and CMSS with approval from the student’s graduate committee or from the Marine Biology Program Coordinator if the committee has not yet been formed. Graduate students may also take courses from the Marine Biology and Marine Sciences Department at Texas A&M University at Galveston and Wildlife and Fisheries Sciences, and Oceanography and Biology Departments at Texas A&M University.

**MARB 5392 - Thesis Proposal**

**3 sem. hrs.** Thesis students must submit a completed proposal for their thesis project. A course section will be created for the student to enroll. Upon successful completion and submission of the proposal signed by the graduate committee of the student, students may
then register for MARB 5393 - Thesis Research. Open only to M.S. Thesis Degree Candidates in Marine Biology. Offered any semester upon request by a student and consent of the instructor.

**MARB 5393 - Thesis Research**

*3 sem. hrs.* Implementation of the Thesis Proposal, and the production of a rough draft of the thesis submitted to the graduate committee of the student for initial editing and comment. A course section will be created for the student to enroll. Prerequisite: MARB 5392 - Thesis Proposal. Offered any semester upon request by a student and consent of the instructor.

**MARB 5394 - Thesis Submission**

*3 sem. hrs.* Completion of the final draft of the thesis, signed by the graduate committee of the student and ready for binding and distribution. A course section will be created for the student to enroll. Prerequisite: MARB 5392 - Thesis Proposal. Prerequisite or Corequisite: MARB 5393 - Thesis Research. Offered any semester upon request by a student and consent of the instructor.

**MARB 5397 - Directed Research**

*3 sem. hrs. (3:0)* Emphasis on experimental design as related to selected biological topics. Application of research skills. For M.S. students selecting the non-thesis option. Students may register for up to 9 semester hours, but only 3 semester hours will count towards a non-thesis degree. Directed Research is only open to M.S. students. Offered any semester upon request by a student and consent of the instructor.

**MARB 5940 - Thesis Project Research**

*1-9 sem. hrs.* Research related to the M.S. project. Open only to M.S. students in marine biology with consent of the graduate advisor. Does not count as credit toward regular graded (non-research, non-variable credit) coursework for M.S. degree requirement in marine biology. Grade assigned will be "credit" (CR) or "no credit" (NC). Offered any semester upon request by a student and consent of the instructor.

**MARB 6102 - Graduate Research Seminar**

*1 sem. hrs. (1:0)* Current literature readings, study and presentation by students, faculty, or visiting scientists. Meets one hour weekly. Must be taken to fulfill degree plan requirements by all Marine Biology graduate students and recommended enrollment of once per year. Offered fall and spring semesters every year.
MARB 6301 - Coral Reef Conservation Issues

3 sem. hrs. (3:0) Overview of coral reef systems emphasizing 21st century challenges and conservation issues. BIOL 3428 - Principles of Ecology or equivalent. Offered spring semester every year.

MARB 6310 - Physiological Adaptations in Animals

3 sem. hrs. (3:0) A study of the physiological adaptations of animals to their environment, including osmoregulatory and temperature regulatory mechanisms. Prerequisite: BIOL 3430 - Physiology or equivalent. Offered fall semester of odd-numbered years.

MARB 6314 - Aquatic Animal Nutrition

3 sem. hrs. (3:0) The study of current concepts in aquatic animal nutrition including nutrient sources and requirements, deficiency effects, digestive/digestive/metabolic processes, formulation and processing of feeds, and practical feeding considerations for selected aquatic species. Offered fall semester of odd-numbered years.

MARB 6327 - Marine Restoration Ecology

3 sem. hrs. (3:0) Overview of the rapidly expanding practice of restoring degraded marine, estuarine, and coastal ecosystems. Teaching methods will include lectures, discussion, paper critiques, field visits, and restoration plans. Course will explore ecological theory as it applies to restoration, restoration planning and implementation strategies, and controversies surrounding the practice of restoration. Offered fall semester every year.

MARB 6328 - Fisheries Ecology and Management

3 sem. hrs. (3:0) Advanced study of theory and techniques in fisheries science including behavior of fisheries populations and applications to resource management with emphasis in tidal-influenced waters. Includes readings in the current literature and a research project. Offered fall semester every year.

MARB 6332 - Aquatic Living Resource Management

3 sem. hrs. (3:0) This course will provide introduction to the concepts, considerations, and strategies involved in natural fisheries resource management. Students will learn about the challenges, processes, and choices in fisheries management system. Ecosystem and legal considerations of the fisheries management will be discussed. Course activities
include lectures, in-class discussions, and critical literature reviews. Students will obtain fundamental knowledge and understanding of fisheries system and its management to effectively communicate with scientists, managers, and the general public. Offered on sufficient demand.

**MARB 6333 - Marine Benthic Ecology**

**3 sem. hrs. (3:0)** The ecology of benthic assemblages with emphasis on species and habitats below diver depths. Micro to mesoscale spatial patterns, including bathymetric distribution, abundance and size-structure, diversity gradients, energetics and feeding strategies, and zoogeography of the benthos will be covered. Hydrothermal vents, cold seeps and sea mount fauna will receive special attention. Offered spring semester of even-numbered years.

**MARB 6335 - Aquatic Microbiology**

**3 sem. hrs. (3:0)** Types and distribution of microorganisms in aquatic environments. Interactions with other organisms. Role in nutrient cycling, degradation of organic substances, pollution, water purification. Prerequisite: An undergraduate course in microbiology. Offered spring semester of odd-numbered years.

**MARB 6336 - Dynamics and Quantitative Models of Aquatic Resources**

**3 sem. hrs. (3:0)** This course is designed to introduce the general theories of fish population dynamics and to train the relevant analytical and statistical methods for modeling the behaviors and processes of the natural fish populations under exploitation. Offered on sufficient demand.

**MARB 6371 - Evolutionary Genetics**

**3 sem. hrs. (3:0)** An advanced introduction to evolutionary processes and their genetic basis, focusing on theoretical and experimental approaches to the study of population genetics, phylogeography, coalescence theory, evolutionary ecology, and molecular evolution. Prerequisites: BIOL 2416 - Genetics, or equivalent, and a college-level mathematics course, or permission of instructor. Offered spring semester of odd-numbered years.

**MARB 6373 - Marine Biodiversity and Conservation Science**

**3 sem. hrs. (3:0)** Biodiversity, including genetic diversity of individual populations to ecosystem diversity, will be addressed, with focus on the marine realm. Methods for assessing and quantifying diversity will be included. Threats to biodiversity, including
resource extraction, invasive species, habitat alteration, global warming and ocean acidification, will be covered, as will techniques for recovering and restoring damaged ecosystems. Marine ecosystem management will be discussed, including marine protected areas, and state, federal and international fisheries and resource management issues. Advanced courses in Ecology or Marine Biology would benefit students. Offered on sufficient demand.

**MARB 6392 - Dissertation Proposal**

*3 sem. hrs.* Ph.D. students must submit a completed proposal for their dissertation project. A course section will be created for the student to enroll. Upon successful completion and submission of the proposal signed by the graduate committee of the student, students may then register for MARB 6393 - Dissertation Research. Offered any semester upon request by a student and consent of the instructor.

**MARB 6393 - Dissertation Research**

*3 sem. hrs.* Implementation of the Dissertation Proposal, and the production of a rough draft of the dissertation submitted to the graduate committee of the student for initial editing and comment. A course section will be created for the student to enroll. Prerequisite: MARB 6392 - Dissertation Proposal. Offered any semester upon request by a student and consent of the instructor.

**MARB 6394 - Dissertation Submission**

*3 sem. hrs.* Completion of the final draft of the dissertation, signed by the graduate committee of the student and ready for binding and distribution. A course section will be created for the student to enroll. Prerequisite: MARB 6392 - Dissertation Proposal. Prerequisite or Corequisite: MARB 6393 - Dissertation Research. Offered any semester upon request by a student and consent of the instructor.

**MARB 6405 - Limnology**

*4 sem. hrs. (3:3)* Ecological relationships and productivity of freshwater communities, including rivers, lakes and wetlands. Focus is on interactions of the physical, chemical and biotic environment and influence of human activities on systems. Prerequisite: BIOL 3428 - Principles of Ecology, or equivalent. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered fall semester of odd-numbered years.

**MARB 6427 - Coastal Ecology**
4 sem. hrs. (3:3) Study of coastal environments and issues. Includes required field trips to Texas coastal areas. Prerequisites: BIOL 3428 - Principles of Ecology or BIOL 4436 - Marine Ecology or equivalent or permission of instructor. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered fall semester of odd-numbered years.

MARB 6430 - Marine Plankton

4 sem. hrs. (3:3) Investigation of the systematics, distribution and ecology of marine plankton. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester of even-numbered years.

MARB 6431 - Phycology

4 sem. hrs. (3:3) Study of the major groups of freshwater and marine algae; morphology, ecology, systematics, life cycles and physiology. Laboratories emphasize collection, identification and culturing techniques. Corequisite: Safety training given in SMTE 0092 - Biomedical Laboratory Safety Seminar is required for continued participation in this course. Offered fall semester of even-numbered years.

MARB 6436 - Marine Ecology

4 sem. hrs. (3:3) Advanced studies in structure and habitats of marine environments. Emphasis on factors influencing distribution of marine organisms, including field trips to areas along the Texas coast. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester every year.

MARB 6444 - Estuarine Organisms

4 sem. hrs. (3:3) Life history and ecology of estuarine organisms. Special emphasis on the identification of local forms. Required field trip and independent lab work. Prerequisites: BIOL 3413 - Invertebrate Zoology (or equivalent) and BIOL 3428 - Principles of Ecology (or equivalent), or permission of instructor. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered spring semester every year.

MARB 6446 - Tropical Ecology and Conservation

4 sem. hrs. (3:3) Ecological processes and conservation issues in the tropics. Laboratory focuses on field techniques used to study tropical forest ecology. Prerequisite: BIOL
3428 - Principles of Ecology, or equivalent, or permission of instructor. Corequisite: Safety training given in SMTE 0091 - Biological Laboratory Safety Seminar is required for continued participation in this course. Offered fall semester of even-numbered years.

**MARB 6590 - Special Topics**

1-5 sem. hrs. (1:0-3:4) An advanced study of a biological topic. May be repeated with full credit in another area of marine biology. Corequisite: When laboratory hours are included, safety training given in SMTE 0091 - Biological Laboratory Safety Seminar, SMTE 0092 - Biomedical Laboratory Safety Seminar, or SMTE 0093 - Chemistry Laboratory Safety Seminar is required for continued participation in this course. May be offered any semester: students should consult the online course schedule.

**MARB 6596 - Directed Independent Study**

1-5 sem. hrs. Study in areas of current interest. A total of six semester hours of Directed Independent Study may be counted towards the M.S. or Ph.D. degree. Offered any semester upon request by a student and consent of the instructor.

**MARB 6940 - Dissertation Project Research**

1-9 sem. hrs. Research related to the dissertation project. Open only to Ph.D. students in Marine Biology with consent of the graduate advisor. Does not count as credit toward regular graded (non-research, non-variable credit) coursework for Ph.D. degree requirement in Marine Biology. Offered any semester upon request by a student and consent of the instructor.

**Marketing**

**MKTG 5311 - Marketing Concepts**

3 sem. hrs. An examination of basic marketing activities involved in the flow of goods, services, and ideas from producer to consumer or industrial user. A managerial emphasis designed for students with limited or no academic experience in marketing. (This is a core course.)

**MKTG 5320 - Marketing Management**
3 sem. hrs. An advanced study of contemporary marketing management concepts, tools of analysis, and implementation of marketing programs. Prerequisite: MKTG 5311 or equivalent.

MKTG 5335 - Marketing in the International Environment

3 sem. hrs. A study of the environment within which a firm operating outside the U.S. considers the political, social, and economic variables that impact marketing decisions. Prerequisites: MKTG 5311 or permission of instructor.

MKTG 5360 - Research in Marketing

3 sem. hrs. An overview of the area of marketing research. A managerial orientation is used stressing such topics as the informational needs of marketing managers, the application of research in marketing management, decision models and concepts, and research concepts and data analysis methodology. Prerequisites: MKTG 5320.

MKTG 5370 - Seminar

1-3 sem. hrs. Seminar in an identified topic in marketing. May be repeated for significantly different topics with written permission from the Director of Master's Programs. Prerequisite may vary depending on topic.

MKTG 5396 - Directed individual Research or Readings

1-3 sem. hrs. Contact Director of Master's Programs.

Mathematics

MATH 5310 - Topics in Mathematics

3 sem. hrs. (3:0) May not be used for graduate credit towards the MS in mathematics. Course included to provide a suitable vehicle for anticipated future service courses. Prerequisite: Dependent on topics course offered. Grade assigned will be “credit” (CR) or “no credit” (NC).

MATH 5321 - Problem Solving and Mathematical Reasoning for Teachers

3 sem. hrs. (3:0) An investigation of problems that span a variety of domains with a focus on making and evaluating mathematical arguments, using tools such as
manipulatives and technology, identifying and analyzing the connections within and outside of mathematics, and using symbols and representations to communicate mathematical ideas.

MATH 5322 - Mathematics Assessment


MATH 5323 - Mathematics instruction and Mentoring

3 sem. hrs. (3:0) A study of how the use of appropriate mathematical content can create and support a mathematics classroom environment in which students are engaged in mathematical problem solving and how to use these understandings to be effective in supporting teacher development.

MATH 5324 - Principles of Reforming Mathematics Instruction

3 sem. hrs. (3:0) This course introduces participants to the theory and practice of teacher-led inquiry within mathematics education. The course prepares teachers to engage in a school-based mathematics education action research project. It is intended for in-service mathematics teachers.

MATH 5325 - Structure of Number Concepts

3 sem. hrs. (3:0) An in-depth investigation of real and complex number systems, base ten and other number bases, operations and algorithms, divisibility, Euclidean algorithm, congruence, modular arithmetic, and the Fundamental Theorem of Arithmetic, with an emphasis on quantitative and qualitative reasoning.

MATH 5326 - Structure of Patterns and Algebra

3 sem. hrs. (3:0) Algebraic reasoning incorporating the use of technology. This course includes investigations of patterns, relations, functions, and analysis, with a focus on representations and the relationships among them.

MATH 5327 - Structure of Geometry and Measurement
3 sem. hrs. (3:0) An investigation of concepts and principles in geometry and measurement with emphases on deductive reasoning and on inductive reasoning with the use of dynamic geometry software.

MATH 5328 - Structure of Probability and Statistics

3 sem. hrs. (3:0) An investigation of the principles and applications of probability and descriptive and inferential statistics.

MATH 5329 - Structure of Modeling with Rates of Change

3 sem. hrs. (3:0) A study of rates of change through modeling. Direct applications of rates of change to number concepts, algebra, geometry, probability, and statistics.

MATH 5331 - Evolution of Mathematical Systems

3 sem. hrs. (3:0) Covers the evolution of mathematical concepts and thought from ancient to modern times, including women and men who played key roles, from original and secondary sources. Provides a better understanding of the historical development of larger context for topics studied in other courses, and deepens understanding and appreciation of these topics. This course is intended to benefit current and future mathematics teachers. Prerequisite: MATH 5321 or consent of the instructor. Fall.

MATH 5332 - Integrating Technology in Mathematics Education

3 sem. hrs. (3:0) An introduction to technology appropriate for the mathematics classroom, including calculators, CAS systems, handhelds, computer software and multimedia. This course is intended for in-service mathematics teachers at the middle/high school level. Prerequisite: MATH 5321 or consent of the instructor. Fall.

MATH 5333 - Numerical Linear Algebra


MATH 5336 - Advanced Differential Equations

3 sem. hrs. (3:0) A continuation of MATH 3315, Differential Equations. Relying heavily on linear algebra concepts, this course covers linear systems of differential equations; introductory operator theory; existence, uniqueness and continuity of solutions; stability of equilibria; planar nonlinear systems; and the Poincaré-Bendixson Theorem. Several
applications are covered to illustrate the mathematical concepts. Prerequisites: MATH 3311 and MATH 3315. Spring odd years.

**MATH 5337 - Theory and Applications of Partial Differential Equations**

3 sem. hrs. (3:0) The purpose of this course is to study the mathematical theory and real-world applications of the three major categories of partial differential equations: elliptic equations, parabolic equations, and hyperbolic equations. Specific topics to be covered include: first-order equations, second-order elliptic equations, second-order parabolic equations, and second-order hyperbolic equations. Prerequisites: MATH 3311, MATH 3315, MATH 4301, MATH 4315, or by permission of instructor. As needed.

**MATH 5339 - Numerical Analysis**

3 sem. hrs. (3:0) Error estimation. Solution of non-linear equations. Interpolation. Numerical differentiation and integration. Finite differences and finite elements. Numerical methods for ODE's and PDE's. Prerequisites: MATH 3311, MATH 3315, MATH 3470, MATH 4315; also COSC 1435 or COSC 5311 or equivalent. Fall even years.

**MATH 5342 - Linear Statistical Models**

3 sem. hrs. (3:0) Review of basic concepts in probability theory. Principles of estimation and model building. Linear models, especially ANOVA and regression. Non-parametric alternatives. Prerequisites: MATH 3311, MATH 3342, and MATH 3470. As needed.

**MATH 5343 - Mathematical Theory of Statistics**

3 sem. hrs. (3:0)

This course is intended for graduate students that need a solid background on statistical theory. This is a one-semester course in probability and mathematical statistics. Topics include: basic probability, random variables, transformations and expectations, distributions and important families thereof, multiple random variables, random samples, notions of convergence, and an overview of point estimates and hypothesis tests. Prerequisites: MATH 3311, MATH 3342 and MATH 3470 or the equivalent, or instructor's permission. As needed.

**MATH 5344 - Spatial Statistics**
3 sem. hrs. (3:0) An introduction to methods of spatial statistics commonly used in scientific settings. Topics include the nature of geospatial sampling, analysis and modeling of spatial point patterns, and development and analysis of common continuous spatial models such as kriging. Additional topics to be covered, as time and student interest permit, include Bayesian modeling, hierarchical environmental modeling, and spatiotemporal modeling. Use of appropriate software is emphasized. Prerequisite: MATH 3342 or MATH 5315. As needed.

MATH 5348 - Optimization

3 sem. hrs. (3:0) Unconstrained optimization, necessary and sufficient conditions for solutions, basic algorithms. Constrained optimization, KKT conditions, linear programming, convex programming, algorithms. Prerequisites: MATH 4301. As needed.

MATH 5351 - Real Analysis

3 sem. hrs. (3:0) This course includes such topics as sequences and series of constants and functions, the Riemann integral, Fourier Series, and an introduction to Lebesgue measure and integration. Prerequisites: MATH 4301. Spring even years.

MATH 5354 - Abstract Algebra

3 sem. hrs. (3:0) Basic structure theorems for groups, rings, and fields. Additional topics selected from Sylow's theorem, symmetry groups, algebraic coding theory, and Galois theory. Prerequisites: MATH 4306.

MATH 5360 - Combinatorics and Graph Theory

3 sem. hrs. (3:0) Topics to include basic counting rules, connectivity, graph coloring and applications, chromatic polynomials, trees and their applications to searching and sorting, generating functions, recurrence relations, the Pigeonhole Principle, Eulerian and Hamiltonian chains and paths, and applications. Prerequisites: MATH 2305 and MATH 3313 or the equivalent. As needed.

MATH 5370 - Modeling of Natural Systems

3 sem. hrs. (3:0) This course is designed to expose science and technology majors to models of real problems arising in the environment and ecology. Students will learn how to create solvable models of the real world situations and how to find answers on the posted questions by using tools of mathematics and computing. There will be modeling and simulations of tides in the Gulf of Mexico, multi-species models of the food chains, circulation of carbon, water, and oxygen. Students will learn some new tools based on
calculus and elementary statistics such as numerical algorithms, Monte-Carlo methods, Markov Processes, multivariate analysis, evaluation of stability, methods of extrapolation (predictions) and interpolations. Prerequisite: MATH 1442 or MATH 2342, and MATH 2413 or MATH 5329, or equivalent.

**MATH 5375 - Applied Analysis**

3 sem. hrs. (3:0) Topics to include basic theory of Euclidean, Banach and Hilbert spaces, calculus of variations and optimal control, elements of system analysis, and elements of complex analysis. All theoretical topics will be illustrated by real application. Prerequisite: MATH 4301 or MATH 5351. As needed.

**MATH 5378 - Mathematical Modeling**

3 sem. hrs. (3:0) Modeling of applied problems using analytical, stochastic, and dynamical methods. Prerequisite: Completion of 24 semester hours towards the Applied and Computational option of the M.S. in Mathematics.

**MATH 5390 - Special Topics in Mathematics**

3 sem. hrs. (3:0) Prerequisite: Varies.

**MATH 5396 - Directed independent Study**

3 sem. hrs. (3:0) Study in areas of current interest. See College description for further details. Prerequisite: Permission of the instructor. May not be substituted for regularly scheduled offerings.

**MATH 5993 - Literature Review and Research**

1-9 sem. hrs. Res Reading, analyzing, and synthesizing appropriate mathematics and/or mathematics education research literature under supervision. May be repeated for credit. S/U/IP

**MATH 5994 - Proposal Research**

1-9 sem. hrs. (Res) This course develops an ability to independently investigate a technical topic of interest, and the skills necessary to successfully communicate on that topic. The student learns how to find, organize, assimilate, and report on technical information derived from published sources. Specific areas of study include literature searches, technical word processing, technical writing style, and oral presentation.
techniques. A final paper and a formal presentation are submitted in lieu of a final exam in the final semester.  A-F/IP

MATH 5995 - Thesis

1-9 sem. hrs. (MST) Students work with an advisor to complete and present their proposed thesis. Students may register for 3 to 9 semester hours per semester. Only 3 hours total will count toward the MS degree in mathematics. Prerequisite: MATH 5994 and a Thesis Proposal signed by the student's committee. Fall, Spring, Summer.

MATH 5997 - Project

1-9 sem. hrs. (MST) Students work with an advisor to complete and present their proposed research project. Students may register for 3 to 9 semester hours of directed research per semester. Only 3 hours total will count toward the MS degree in mathematics. Prerequisite: MATH 5994 and a Project Proposal signed by the student's committee. Fall, Spring, Summer.

MATH 6315 - Statistical Methods in Research I

3 sem. hrs. (2:2) This course is for graduate students in other disciplines and is designed to prepare them to use statistical methods in their research. This is a non-calculus exposition of the concepts, methods and usage of statistical data collection and analysis. Topics include descriptive statistics, the t-test, the one and two-way analysis of variance, multiple comparison tests, and multiple regression. Students also learn how to conduct these analyses using computer software and how to properly report their findings. Prerequisite: MATH 1442, MATH 3342, or the equivalent. Fall, Spring.

MATH 6316 - Statistical Methods Research II

3 sem. hrs. (2:2) This course is a continuation of MATH 6315. Topics include: statistical experimental design, randomized blocks and factorial analysis, multiple regression, chi-squared tests, analysis of covariance, non-parametric methods and sample surveys. Emphasis will be placed on the computer analysis of research data and how to properly report statistical findings. Prerequisite: MATH 6315. Spring.

MATH 6317 - Mixed Effects Models for Scientists

3 sem. hrs. (3:0) This course will deal with extensions to the regression and ANOVA that are frequently useful in dealing with ecological data. Topics include: using bootstrapping for significance testing; generalized additive models; using generalized least squares to deal with non-homogeneous data; working with fixed and random
factors; handling temporally correlated and spatially correlated data; and the generalized linear model (Poisson, logistic, and negative binomial regression). Prerequisite: MATH 6315 or MATH 6316; in particular, a good basic understanding of linear regression and at least exposure to multiple regression.

**Mexican American Studies**

These courses are designed to support graduate programs in other disciplines.

**MXAS 5310 - Seminar in Mexican American Themes**

3 sem. hrs. Philosophical and anthropological themes as expressed in music and literature, centering on awareness and consciousness within the cultural setting of the Mexican American/Chicano. May be repeated when topics vary.

**MXAS 5396 - Individual Study**

3 sem. hrs. Individual study, reading or research with faculty direction and evaluation. Offered on application to and approval of the program coordinator.

**Music**

These courses are designed to support graduate programs in other disciplines.

**MUSI PRE - Secondary Studio**

1 sem. hrs. This level of study is appropriate for music students who wish to add to their stock of secondary performance capabilities. It provides for one half-hour private instruction each week and requires a minimum of six practice hours each week from the student.

**MUSI PRE - Principal Studio**

2 sem. hrs. This level of study is appropriate for students who wish to extend their level of proficiency in their major performance area. It provides for one hour of private instruction each week and requires a minimum of ten practice hours each week from the student.

**Nursing**

The number of weekly lecture and laboratory hours associated with each course are designated by (lecture:lab) following the course semester hours. One lab hour = 3 contact
hours. Additional laboratory work may be required to complete assignments. All courses involving labs will require appropriate fees. Didactic courses are delivered through online technology. Students must have access to a computer to complete course work.

**NURS 5310 - Science in Nursing**

*3 sem. hrs. (3:0)* Exploration of the historical development and rationale of nursing theory. Examination of selected theories and conceptual frameworks, and their relationship to nursing practice and research. Emphasis is on the utilization of theories and models in nursing as a basis for a practice that provides a caring, comprehensive, and holistic approach to health care within a transcultural society. This course is delivered through online technology.

**NURS 5314 - Research Methods in Advanced Nursing Practice**

*3 sem. hrs. (3:0)* Critical examination of research methods in order to advance and integrate evidence into nursing practice and improve patient population outcomes. Particular attention is given to research appraisal and application, and the ethical aspects of research translation. This course is delivered through online technology. Prerequisite: Statistics and introductory research course.

**NURS 5315 - Health Policy and Cultural Diversity**

*3 sem. hrs. (3:0)* Health policy and cultural diversity are studied to provide foundations for meeting the needs of communities and societies. Current and proposed policies that influence contemporary health delivery are analyzed. This course is delivered through online technology.

**NURS 5316 - Introduction to Advanced Practice Role Development**

*3 sem. hrs. (3:0)* The course focuses on the development of knowledge and skills necessary for advanced practice. This includes, but is not limited to, negotiation, collaboration, crisis intervention, peer review, leadership, ethics, accountability and basic finances in advanced practice. Parameters of practice within various health care systems are integrated. This course is delivered through online technology.

**NURS 5322 - Advanced Pharmacological Concepts**

*3 sem. hrs. (3:0)* Study of pharmacotherapeutics across the life span with emphasis on clinical decision-making. Laws governing Advanced Practice Registered Nurses' prescriptive privileges are included when appropriate. Discussion is based on current
literature, research findings and case studies. This course is delivered through online technology. Prerequisite or co-requisite: NURS 5326.

**NURS 5323 - Finance for the Nurse Practitioner**

*3 sem. hrs. (3:0)* Study of fiscal aspects of private practice, when to seek the services of a lawyer, analysis of and monitoring the cost-effectiveness of clinical decisions, the design of payment systems, fiscal management, and developing collaborative and interdependent relationships. This course is delivered through online technology. Prerequisite: NURS 5310 and NURS 5314 or with permission of the Department Chair.

**NURS 5324 - Health Assessment for Advanced Practice**

*3 sem. hrs. 2:1*

Study and practice of complex skills for comprehensive health assessment and focus on the differentiation and interpretation of normal and abnormal findings. Selected laboratory techniques are included. Oral and written communication of findings in a collaborative relationship with other health care providers is emphasized. Variables related to rural and multicultural populations are incorporated into the total assessment. Opportunities are provided to develop skills necessary for the identification of health problems, while considering variables associated with multicultural populations across the lifespan. The lecture component of this course is delivered through online technology. Laboratory hours must be completed in appropriate settings approved by clinical faculty. Prerequisite: NURS5310 and NURS5314 or with permission of the Department Chair.

**NURS 5326 - Advanced Physiology with Pathophysiological Applications**

*3 sem. hrs. (3:0)* Study of normal physiologic and pathologic mechanisms of disease across the lifespan that serve as the foundation for clinical assessment, decision making and client health management in advanced practice nursing. This course is developed through online technology. Prerequisite: NURS 5310 and NURS 5314 or with permission of the Department Chair.

**NURS 5331 - Nursing informatics**

*3 sem. hrs. (3:0)* An introduction to the application of computers in nursing. Focuses on concepts and terminology related to computer technology, information management and their use in nursing leadership, nursing education, nursing practice, and nursing research.
Designed for graduate students. This course is delivered through online technology. Prerequisite: Computer Literacy.

**NURS 5341 - Wellness and Health Promotion**

3 sem. hrs. (3:0) A study of the complex integration of knowledge, research, and theory essential to developing clinical competence in the teaching-coaching function of the Advanced Practice Nurses. Selected models of health promotion, risk factors and early disease detection are explored. The course emphasizes the importance of situational, cultural, developmental, and individual perspectives in implementing disease prevention/health promotion activities. This course is delivered through online technology. Prerequisite: NURS 5310 and NURS 5314 or with permission of the Department Chair.

**NURS 5351 - Advanced Pharmacological Concepts for Nursing Educators**

3 sem. hrs. 3:0 Study of advanced pharmacotherapeutics across the life span for the nurse educator. Discussions are based upon current literature, research findings, and case studies. This course is delivered through online technology.

**NURS 5352 - Nursing Curriculum Planning, Development, and Evaluation**

3 sem. hrs. (3:0) This course explores theories and models that are applicable to nursing curriculum development. Guidelines for curriculum development, implementation and evaluation are examined. The significance of program outcomes are assessed for application to manage and refine nursing curriculum. This course is delivered through online technology. Prerequisite: NURS5310 and NURS5314 or with permission of the Department Chair. This course is designed for graduate nursing students.

**NURS 5353 - Theory and Concepts for the Nurse Educator**

3 sem. hrs. (3:0) Focuses on the scientific and theoretical foundations of nursing education; stimulates reflections on the character and aims of the nurse educator; examines the distinctive characteristics and roles of the educator in the diffusion and extension of knowledge through teaching and the advancement of knowledge through research and scholarship. Theories related to teaching and learning are explored. The concepts of role, change, curriculum, instruction and evaluation are introduced. This course is delivered through online technology. Prerequisite: NURS5310 and NURS5314 or with permission of the Department Chair.

**NURS 5354 - Assessment, Measurement, and Evaluation in Nursing**
3 sem. hrs. (3:0) Provides students with an overview of assessment, measurement, and evaluation strategies in the classroom and clinical areas. Students develop evaluation skills emphasizing unit, course and program outcomes. The process of evaluation within the teaching role is framed as a continuous quality improvement educational practice. Prerequisite: NURS 5310 and NURS 5314 or with permission of the Department Chair.

NURS 5355 - Instructional Teaching Strategies

3 sem. hrs. (3:0)

Focuses on teaching and learning for nurse educators in the classroom, clinical, and laboratory settings. Emphasis is placed on instructional theory, best teaching practices, and research-based instructional strategies that support a diverse, student-centered learning environment. Instructional strategies will be critiqued in relation to the fit with teaching content and course design/delivery. Instructional strategies will be assessed for their effectiveness to evaluate student learning and program outcomes. This course is delivered through technology. Prerequisite: NURS5310 and NURS5314 or with permission of the Department Chair.

NURS 5360 - Health Care Financial Management

3 sem. hrs. (3:0) Overview of concepts, principles and uses of basic accounting and budgeting information for the health care manager. Focuses on providing the nurse administrator with a basis for understanding the fiscal status of a health care organization. This course is cross-listed with HCAD 5325. This course is delivered through online technology. Prerequisite: NURS 5310 and NURS 5314 or with permission of the Department Chair.

NURS 5362 - Leadership Theories in Nursing Practice

3 sem. hrs. (2:3) Examines the relationship of leadership and management theory and processes to nursing practice in both urban and rural health care settings. The independent and interdependent functions of the nurse leader at various levels of decision making are identified and analyzed. Concepts basic to organizational functioning and role relationships within a transcultural framework are considered. A clinical laboratory experience provides students opportunities to analyze the effectiveness of leadership behaviors. The lecture component of this course is delivered through online technology. Laboratory hours must be completed in appropriate settings approved by clinical faculty. Prerequisites: NURS5310 and NURS5314 or with permission of the Department Chair.
NURS 5364 - Organizational Design and Behavior in Nursing Practice Environments

3 sem. hrs. (3:0) Focuses on the application and utilization of the theories, concepts and principles of organizational design and behavior in nursing leadership. Includes major theoretical viewpoints from organizational dynamics and processes, and their employment in nursing leadership environments. This course is delivered through online technology. Prerequisites: NURS 5310 and NURS5314 or with permission of the Department Chair.

NURS 5365 - Quality and Outcomes Management

3 sem. hrs. (3:0) Examines conceptual models of quality and their application to the management and evaluation of quality of care across health care settings. The role of outcomes measurement as a major indicator of quality of care is emphasized. This course is delivered through online technology. Prerequisites: NURS5310 and NURS5314 or with permission of the Department Chair.

NURS 5390 - Topics in Advanced Nursing Practice

1-3 sem. hrs. In-depth study of various leadership and clinical nursing practice areas. May be repeated when topics vary. Offered on sufficient demand.

NURS 5391 - Seminar in Nursing

1-3 sem. hrs. In-depth study and discussion of various topics relevant to nursing. May be repeated when topics vary. Offered on sufficient demand.

NURS 5396 - Directed independent Study

1-3 sem. hrs. Area of study interest. Requires the permission of the Dean before registration.

NURS 5398 - Graduate Research or Project

1-3 sem. hrs. Proposal development, project implementation or independent research under the direction of major professor. Students who have completed all requirements toward the Master of Science in Nursing degree except the thesis must enroll in this course each semester of the regular academic year under the direction of major professor. May be repeated a maximum of four times.

NURS 5399 - Thesis
3 sem. hrs. Independent research under the direction of a faculty member. Credit will not be recorded until thesis is accepted by the thesis committee.

**NURS 5459 - Education Practicum for the Nurse Educator**

4 sem. hrs. (1:9) Apply the roles of the nurse educator by using the nurse educator competencies as a framework for the practicum experience. Students will select an area of teaching either as an academic educator or as a clinical educator and work with a preceptor. This course requires the synthesis of theoretical knowledge from foundational courses to the design, implementation, and evaluation of a capstone project. Students will evaluate the responsibilities of the educator role in relation to meeting the goals of the practicum institution. This course requires 135 hours in a practicum setting. Students must achieve a B or above to earn credit for this course. The lecture component of this course is delivered through online technology. Laboratory hours must be completed in appropriate settings approved by clinical faculty. Capstone Course Prerequisite: All core and nurse educator specialty courses or with permission of the Department Chair.

**NURS 5469 - Patterns of Care Delivery**

4 sem. hrs. (1:9) Appraisal of various patterns of care delivery that develop in response to the evolving and increasingly complex resources in the health care delivery system. Students will complete a project evaluating the management and delivery of the continuum of care in one or more health care organizations. Students must earn a B or better grade to earn credit for this course. The lecture component of this course is delivered through online technology. Laboratory hours must be completed in appropriate settings approved by clinical faculty. Capstone Course. Prerequisites: All core and leadership specialty courses or with permission of the Department Chair.

**NURS 5624 - Advanced Health Assessment and Differential Diagnosis**

6 sem. hrs. (4:6) Study and practice of complex skills for comprehensive health assessment with focus on differentiation and interpretation of normal and abnormal findings across the lifespan. Focus extends to developing a comprehensive database to establish a list of differential diagnoses. Includes radiology, EKGs and common office tests performed in primary practice. Oral and written communication of findings in a collaborative relationship with other healthcare providers is emphasized. Variables related to rural and multicultural populations are incorporated into the total assessment. Students increase knowledge of anatomy, physiology, and communication skills. The clinical component of the course provides opportunity to interpret as well as practice complex assessment techniques. Students perform basic office tests and interpret other laboratory and diagnostic data as part of the assessment process. The lecture component
of this course is delivered through online technology. Laboratory hours must be completed in appropriate settings approved by clinical faculty. Prerequisite: Undergraduate health assessment course or BSN Level Competency Health Assessment Check-off for RN-MSN students; All Nursing Core Courses; NURS 5322 and NURS 5326 or with the permission of the Department Chair.

NURS 5644 - Management of Acute and Chronic illness I

6 sem. hrs. (3:9) Study of clinical management of commonly occurring acute and chronic conditions in primary health care settings across the lifespan. Content includes study of symptom complexes, pathophysiology, epidemiology, clinical management, and prevention of complications. Emphasis is on symptom analysis, diagnostic reasoning, differential diagnosis, and prescription of therapeutic regimens. Attention is given to research-based pharmacological and non-pharmacological treatments, and integration of nursing, developmental, family and transcultural theories to the diagnostic and management process. The clinical practice provides the opportunity for the student to perform comprehensive and episodic assessments, practice advanced skills in health assessment, diagnose commonly occurring illnesses, and suggest treatments under supervision in urban/rural communities. The lecture component of this course is delivered through online technology. Laboratory hours must be completed in appropriate settings approved by clinical faculty. Prerequisites: NURS5322, NURS5323, NURS5341, and NURS5624 or with permission of the Department Chair.

NURS 5645 - Management of Acute and Chronic illness II

6 sem. hrs. (3:9) Continued study of the clinical management of commonly occurring acute and chronic conditions in primary health care settings across the lifespan. Emphasis is on symptom analysis, diagnostic reasoning, differential diagnosis, and prescription of therapeutic regimens. The clinical practice provides the opportunity for the students to perform comprehensive and episodic assessments, practice advanced skills in health assessment, diagnose commonly occurring illness, and suggest treatments under supervision. The lecture component of this course is delivered through online technology. Laboratory hours must be completed in appropriate settings approved by clinical faculty. Prerequisite: NURS5644 or with permission of the Department Chair.

NURS 5746 - Integrated Clinical Practice: FNP

7 sem. hrs. (1:18) Continued study of assessment and clinical management of selected health problems frequently seen in primary health care. The clinical portion provides for the development of clinical competence as the student integrates previously acquired knowledge into the enactment of the multiple roles for the nurse practitioner, and allows
for a greater degree of interdependent practice based on the student's abilities and progress. Student may work with a preceptor in multicultural and rural communities. Students must earn a B or better grade to earn credit for this course. The lecture component of this course is delivered through online technology. Laboratory hours must be completed in appropriate settings approved by clinical faculty. Capstone Course. Prerequisite: NURS5645 or with permission of the Department Chair.

**NURS 6200 - Informatics and Technology for Advanced Practice**

*2 sem. hrs. 2:0* The examination of the use and mobilization of information and technology across organizations for insuring continuity of quality care. May require field-based activities.

**NURS 6211 - Introduction to Scholarly Project**

*2 sem. hrs. 2:0* Development of capstone project proposal. Requires presentation to DNP faculty for approval at the end of the course. Prerequisite: Graduate-level inferential statistics.

**NURS 6221 - Economics of Advanced Practice**

*2 sem. hrs. 2:0* Principles of health economics, reimbursement, budgeting, variance and financial evaluation methods as a framework of financial stability in primary care practice.

**NURS 6300 - DNP Leadership in Health Policy**

*3 sem. hrs. 3:0* Focus is on the use of political efficacy and competence to improve health outcomes and improve the quality of the health care delivery system. The interrelationships between policy, political trends, health care quality outcomes, access to care, and cost containment will be examined. May require field-based activities.

**NURS 6301 - Epidemiology and Statistics for Evidence-Based Practice**

*3 sem. hrs. 3:0* Principles of epidemiology and biostatics applied to the management of population health. Prerequisite: Graduate-level inferential statistics course.

**NURS 6302 - Genomics in Health Care**

*3 sem. hrs. 3:0* Focus is on the relationship between genes, environment, and health. Emphasis will be placed on concepts of prevention and treatment effectiveness within cultural care contexts. Ethical and legal considerations will also be addressed.
NURS 6303 - System Behavior and Impact on Health Care

3 sem. hrs. 3:0 Principles and application of organizational behavior that promotes quality care delivery in diverse healthcare settings. The microsystems framework for quality management will be applied to quality management in selected healthcare settings. May require field-based activities.

NURS 6304 - Application of Evidence in Practice I

3 sem. hrs. 3:0 Exploration of issues related to evidence-based practice in select clinical settings under the direction of faculty. Synthesizes key research related to clinical topics as part of systematic review of evidence. Requires field-based activities.

NURS 6305 - Principles of Nursing Education for Teaching and Patient Care

3 sem. hrs. 3:0 An overview of theoretical principles & guidelines used in the design & evaluation of educational programs. Focus is on adult education philosophies and learning theories and their impact on nursing education in multiple settings. Curriculum development at the institutional, course, and individual class levels including both academic and clinical settings will be examined.

Operations Management

OPSY 5315 - Operations Management

3 sem. hrs. Study of operations of manufacturing and service organizations. Introduction to operational design and control issues such as forecasting, capacity planning, facility location and layout, quality, JIT/lean philosophies and materials requirement planning. Emphasis on developing an operational strategy linking functional areas. Includes international, environmental, legal, and ethical aspects of operations. Prerequisite: ORMS 5310 or equivalent.

OPSY 5370 - Seminar

1-3 sem. hrs. Seminar in an identified topic in Operations Management. May be repeated for significantly different topics with written permission from the Director of Master's Programs. Prerequisite may vary depending on topic.

OPSY 5396 - Directed individual Research Or Readings
1-3 sem. hrs. Contact Director of Master's Programs.

Operations Research/Management Science

ORMS 5301 - Business Decision Analysis Tools

3 sem. hrs. An introduction to analytic tools for business and economic decision making. Topics include analytic methods appropriate for cost-volume-profit analysis, financial analysis and valuation, portfolio selection, capacity planning, job scheduling, process and facility design, market analysis, and decision tools needed in other courses. This is a prerequisite course and is not required for students who have completed MATH 1314 and MATH 1325 or equivalent.

ORMS 5310 - Statistical and Decision Analysis

3 sem. hrs. A study of analytical methods useful for business and economic decision making. Topics include descriptive statistics, probability, inferential statistical methods, and decision analysis. (This is a core course.)

ORMS 5370 - Seminar

1-3 sem. hrs. Seminar in selected business applications of quantitative methods. May be repeated for significantly different topics with written permission from the Director of Master's Programs. Prerequisite may vary depending on topic.

ORMS 5396 - Directed individual Research or Readings

1-3 sem. hrs. Contact Director of Master's Programs.

Physics

Graduate courses in physics are offered in support of graduate degree programs in computer science, education, environmental science, and mathematics. For details concerning these degree programs, consult the appropriate section of the catalog.

For Additional Information

Website: http://www.sci.tamucc.edu/~physweb/physics/physicshomepage.html

Campus address: Science and Technology Building, Room 319; phone (361) 825-2681
Mailing address: Physics Program, Unit 5800
College of Science and Technology
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5800

PHYS 5490 - Advanced Topics

1-4 sem. hrs. (1:0-3:2) Subject material variable. Advanced topics including literature research. May be repeated for credit when topics are sufficiently different. Prerequisite: Permission of instructor.

Political Science

These courses are designed to support the Master of Public Administration and other graduate programs.

POLS 5300 - U.S. Government institutions

3 sem. hrs. A survey of the major institutions of the U.S. national government, with special attention to the presidency, Congress, and the U.S. Supreme Court. Some comparative discussion of federalism, parliamentary systems of government, and proportional representation. Brief review of the U.S. Constitution, the federal court structure, and the role of Federal Reserve System. (Credit may not be given for both this course and PADM 5300.)

POLS 5302 - Policy Making and Public Administration

3 sem. hrs. Relationship of politics and administration with reference to the influence of administration and bureaucracy, legislative bodies, parties, political leadership, interest groups and other forces in the formation and execution of public policy in various levels of, primarily, American government. (Credit may not be given for both this and PADM 5302.)

POLS 5308 - Administrative Law

3 sem. hrs. Analysis of the nature of law, especially the law of administrative procedure. The course examines the separations and delegation of powers, the meaning and functioning of the Administrative Procedures Act, the scope of judicial review, and other
remedies against administrative actions. (Credit may not be given for both this and PADM 5308.)

**POLS 5330 - Public Policy Analysis**

**3 sem. hrs.** A survey of the approaches and analytical tools available in policy analysis. Special attention is given to the role of policy analysis in informing the process of change and reform in American society. The course gives students opportunities to research policy issues and teaches them how to think about any area policy. Students should gain an understanding of the various approaches of inquiry into policy problems. (Credit may not be given for both this and PADM 5325.)

**POLS 5340 - Environmental Policy**

**3 sem. hrs.** A study of the political factors that influence the environmental policy of the United States. Emphasis is on the policy process rather than the details of environmental regulations. South Texas issues are studied in order to understand the complexities facing public administrators at the local level. Offered on sufficient demand. (Credit may not be given for both this and PADM 5340.)

**POLS 5396 - Individual Study**

**3 sem. hrs.** Individual study, reading or research with faculty direction and evaluation. Offered on application to and approval of the program coordinator.

**Psychology**

**PSYC 5301 - Measurement and Statistics**

**3 sem. hrs.** The purpose and design of this course is to cover the research methodology and statistics used in psychological measurement and experimentation. The course is also designed to take students from generation of a research topic through design, data collection, statistical analysis, data interpretation, and the final write-up of a research report. Core course.

**PSYC 5321 - Biological Bases of Behavior**

**3 sem. hrs.** The study of the anatomy and physiology of the human nervous system including neural transmission, motor systems, speech and higher cortical functions with
special emphasis on the physiological changes associated with pathological conditions and their impact on human behavior. Core course.

**PSYC 5322 - Advanced Personality Theories**

3 sem. hrs. A survey of the major approaches to the study of personality. Psychoanalytic, trait, behavioral and humanistic paradigms will be studied with respect to theory, research, and therapeutic application.

**PSYC 5323 - Advanced Social Psychology**

3 sem. hrs. A survey of social psychological theory and research. Topics include attitudes, cognition, interpersonal relationships, social influence, prejudice, and group behavior. (This is a core course.)

**PSYC 5324 - Advanced Developmental Psychology**

3 sem. hrs. A review of research and theories on normal physical, cognitive, emotional, and social development from infancy to adolescence. (This is a core course.)

**PSYC 5325 - Advanced Cognitive Psychology**

3 sem. hrs. The study of mental processes and activities used in perceiving, remembering, thinking and understanding. Topics include perception, attention, memory, language, problem solving and decision making with emphasis on the application of these topics to clinical populations and diagnosis.

**PSYC 5341 - Graduate Psychopathology**

3 sem. hrs. Theories, processes and issues related to the development, evaluation, and classification of deviant behaviors.

**PSYC 5344 - Personality Assessment**

3 sem. hrs. Personality assessment and interpretation using standard instruments such as MMPI, CPI, TAT, and Rorschach.

**PSYC 5345 - Family Theory, Practice and Therapy**

3 sem. hrs. Provides an introductory survey of the major theories and theorists in the area of the psychological formulation of family theory. This course will cover various theories of family therapy as well as assessment of family dynamics, and the implications for the
application of family theory in practice. A review of the research done in the area and the applicability of the research findings in practice.

**PSYC 5348 - Projective Techniques**

*3 sem. hrs.* An in-depth study of projective techniques for personality assessment. The main instrument studied is the Rorschach Inkblot Test using the Beck system. Also covered are the Thematic Apperception Test (TAT), House-Tree-Person Projective Technique, and Draw-a-Person Techniques.

**PSYC 5350 - Introduction to Psychotherapy**

*3 sem. hrs.* The study of professional ethics and individual psychotherapy techniques.

**PSYC 5351 - Child Psychopathology**

*3 sem. hrs.* The course will take a developmental approach in explaining child psychopathology. The course will include a consideration of diagnostic, epidemiological, developmental, and psychophysiological determinants of behavior. Prerequisites: PSYC 5324 and PSYC 5341 or permission of instructor.

**PSYC 5355 - Group Psychotherapy**

*3 sem. hrs.* This course is designed to introduce the graduate student to the theoretical and applied issues related to the practice of group psychotherapy. Examines a variety of therapeutic groups as well as the issues related to the practice of group psychotherapy with special populations. Prerequisites: PSYC 5350 or permission of the instructor.

**PSYC 5360 - Seminar in Psychology**

*3 sem. hrs.* In-depth study of various topics within psychology such as those related to history, clinical, social, experimental and business and industrial. May be repeated when topics vary.

**PSYC 5395 - Thesis**

*3 sem. hrs.* Independent research under the direction of a faculty member. May be repeated to a total of six semester hours. Grade assigned will be "credit" (CR) or "no credit" (NC). By permission only.

**PSYC 5396 - Individual Study**
1-3 sem. hrs. Individual study, reading or research with faculty direction and evaluation. Offered on application to and approval of the program coordinator. No more than 6 hours will be counted towards the degree.

**PSYC 5398 - Clinical Practicum**

3 sem. hrs. Supervised experience in a placement such as a community mental health/mental retardation agency. May be repeated. (Limited to degree students in the Psychology program or graduates of the psychology program working on the LSSP [Licensed Specialist in School Psychology]). Liability insurance required. Enrollment is dependent on the number of suitable practicum sites available. Grade assigned will be “credit” (CR) or “no credit” (NC).

**PSYC 5443 - Intellectual Assessment**

4 sem. hrs. Instruction in the theoretical, ethical and practical application of intellectual assessment in a clinical setting using standardized instruments, such as the WAIS-IV and WISC-IV. Also reviews the current development and use of other instruments that assess cognitive function.

**Public Administration**

**PADM 5300 - U.S. Government institutions**

3 sem. hrs. A survey of the major institutions of the U.S. national government, with special attention to the presidency, Congress, and the U.S. Supreme Court. Some comparative discussion of federalism, parliamentary systems of government, and proportional representation. Brief review of the U.S. Constitution, the federal court structure, and the role of Federal Reserve System. (Credit may not be given for both this course and POLS 5300.)

**PADM 5301 - Theory and Practice of Public Administration**

3 sem. hrs. An introduction to the concepts, theories, literature, legal aspects, and practices of public administration and management. Topics include administrative behavior; program planning, management and evaluation; decision-making; structure and processes of organizations; and ethics.

**PADM 5302 - Policy Making and Public Administration**
3 sem. hrs. Relationship of politics and administration with reference to the influence of administration and bureaucracy, legislative bodies, parties, political leadership, interest groups and other forces in the formation and execution of public policy in various levels of, primarily, American government. (Credit may not be given for both this course and POLS 5302.) Prerequisite: PADM 5300 or permission of instructor.

PADM 5303 - Administrative Ethics

3 sem. hrs. A survey of ethical issues faced by public administrators. The course will provide a general grounding in the philosophical and theoretical foundations of ethical inquiry. Special attention will be given to ethical problems arising within hierarchical organizations and to the ethical implications of particular public policies.

PADM 5304 - Human Resource Management

3 sem. hrs. Analysis of the major personnel management problems and issues in the public sector. The functions of recruitment, selection, development, compensation, and employee relations will be studied. Special attention will be given to the legal environment of personnel. Prerequisite: PADM 5301.

PADM 5305 - Public Budgeting and Finance

3 sem. hrs. An analysis of the formation, management, and administration of fiscal policies at all levels of government in the United States. Basic financial management planning, preparation, presentation, and resource allocation analysis.

PADM 5306 - Public Sector Fiscal Management and Analysis

3 sem. hrs. This course takes an in-depth look at finance and focuses on budget and reform techniques, revenue sources, structure and control, the administration of debt and cash management; including strategies for reducing borrowing costs and increasing the interest earnings of government. Prerequisite: PADM 5305.

PADM 5308 - Administrative Law

3 sem. hrs. Analysis of the nature of law, especially the law of administrative procedure. The course examines the separation and delegation of powers, the meaning and functioning of the Administrative Procedures Act, the scope of judicial review, and other remedies against administrative actions. (Credit may not be given for both this course and POLS 5308.)

PADM 5310 - Public Organizations
3 sem. hrs. A course designed to develop an understanding about public sector organizations, their environments, and the political subsystems in which they exist. The course explores organization theory and administrative behavior to understand and diagnose organizational problems and dynamics in the public sector. Emphasis is placed on organization-environment relationships.

**PADM 5311 - Research Methods in Public Administration**

3 sem. hrs. Examination of analytical methods, research techniques, and models of inquiry in the social and administrative sciences. Topics may include problem definition; needs assessment; data gathering, processing and interpretation; survey research; secondary analysis; and demographics. Assumes computer literacy and completion of an introductory statistics course, or equivalent, prior to student's entry into the class. [Cross-listed with IDSY 5311.] Prerequisite: SOCI/PSYC 1342 [Common Course MATH 1342] or equivalent.

**PADM 5312 - Statistics for Public Administrators**

3 sem. hrs. Examination of the statistical techniques used by public administrators to include descriptive and inferential statistics. Use of SPSS for analysis of empirical and secondary data sources. Interpretation, analysis and presentation is emphasized. Integration of research design and statistical techniques. Prerequisite: PADM 5311.

**PADM 5331 - Managing the Non-profit Organization**

3 sem. hrs. Examination of the forces present and acting on non-profits, the effect of these forces on the non-profit world, position and reactions of the non-profit sector, and possible interventions at the macro and micro level.

**PADM 5332 - Resource Development for Non-profit Organizations**

3 sem. hrs. Examination of the theoretical and practical applications of fundraising. A study of government or non-profit agency grant and contract administration. Applications for responding to funding assistance and solicitations and grants. Contract preparation, evaluation, and presentation.

**PADM 5335 - Program Evaluation**

3 sem. hrs. This course is designed to help the pre- and in-service professional public manager conceptualize the program evaluation effort as a meaningful and understandable set of tasks. The course will examine various means of evaluating programs and enable
students to develop program evaluation skills, so that they become better contributors and consumers of evaluation and research reports.

**PADM 5360 - Strategic Planning**

*3 sem. hrs.* A seminar course that gives pre- or in-service managers the tools necessary to consider the long-term mission and direction of the agency and craft strategy and operations from both internal and external stakeholders to achieve those goals. Consideration of strategic planning as a process for implementing strategic management.

**PADM 5365 - Seminar in Public Administration - Capstone**

*3 sem. hrs.* The capstone course for the MPA program is an integrative approach applying the skills, knowledge and values considered, discussed and acquired throughout the core courses to selected public and administrative problems through analytical exercises and case studies. All other core courses must be completed prior to enrollment in the capstone. This is the exit requirement for the MPA program. This course must be taken during the last semester prior to graduation.

**PADM 5370 - Topics in Public Administration**

*3 sem. hrs.* Seminar in identified topics in Public Administration. May be repeated when topics vary. Offered on sufficient demand.

**PADM 5380 - Homeland Security and Public Administration**

*3 sem. hrs.* This course will provide an overview of the essential ideas that constitute the emerging discipline of homeland security. The course is designed for students interested in a broad overview of homeland security policies including topics related to emergency management, intelligence gathering and analysis, infrastructure security, protection of civil liberties, and counter terrorism strategies.

**PADM 5381 - Modern Terrorism and Counter Terrorism**

*3 sem. hrs.* This course will provide an introduction to the operational and organizational dynamics of modern terrorism from the Cold War to the present. This course will study terrorist organizations to understand the ideologies, cultures, structures and causative factors behind major movements. This course will also focus on U.S. Efforts to counter terrorism from the Cold War to the Global War on Terrorism.

**PADM 5382 - Emergency Management and Disaster Planning Practicum**
3 sem. hrs. This course will examine the public policies, procedures and programs for the management of hazards, emergencies and disasters through the use of case studies. It focuses on providing students hands-on experience in emergency management planning and response through the use of tabletop and field exercises. Students will be required to take this course last in the graduate certificate program.

PADM 5396 - Individual Study

3 sem. hrs. A carefully planned special study on an academic topic, Directed Individual Study (DIS) is a tutorial, directed and evaluated by a member of the graduate public administration faculty. Enrollment is restricted to graduate students who have demonstrated both academic ability and the capacity for independent work. Complete applications must be filed and approved by the MPA coordinator and the Dean of Liberal Arts in advance of registration. Prerequisites: 1) At least 6 semester hours of graduate course work in the field at Texas AandM University-Corpus Christi. 2) A minimum GPA of 3.0 on all work in the field at Texas AandM University-Corpus Christi. 3) At least one previous course with the supervising instructor. A maximum of 6 semester hours of 5396 may be counted towards the graduate degree. Offered on application to the program coordinator.

PADM 5397 - Internship

3 sem. hrs. Practical experience with a government or not-for-profit agency arranged in advance by the supervising professor. Periodic visits, consultations, and a final paper. Offered on sufficient demand and by application to the program coordinator.

Reading

READ 5310 - Emergent Literacy

3 sem. hrs. Language acquisition and functions of language are explored for beginning literacy (K-3). Emphasis will be on classroom strategies for promoting language development and literacy growth for children through the integration of the language systems (reading, writing, speaking, listening). Of particular concern will be children’s oral language, letter knowledge, reading and writing vocabularies, concepts about print, and auditory discrimination.

READ 5314 - College/Adult Literacy
3 sem. hrs. Theories and research on reading, writing, and study processes of college and adult students will be explored. Students will learn about program design, teaching/learning strategies, and assessment procedures appropriate for developmental college students and adult education.

**READ 5321 - Fundamentals of Elementary Reading instruction I**

3 sem. hrs. This course includes a study of methods, materials, and strategies for teaching reading. It is designed to provide graduate students with professional knowledge concerning current research, philosophical perspectives, essential program components, and pedagogical strategies essential to the teaching of reading. Enrollment limited to graduate students seeking initial teacher certification.

**READ 5322 - Fundamentals of Elementary Reading instruction II**

3 sem. hrs. This course includes a study of theoretical, research, and pedagogical aspects of the reading-writing connection for grades 4-8 students. There will also be an emphasis on content area reading and study skills as well as the writing process. Enrollment limited to graduate students seeking initial certification.

**READ 5323 - Fundamentals of Secondary Reading instruction**

3 sem. hrs. This course is designed to provide graduate students with professional knowledge concerning current research, theory, essential program components, and pedagogical strategies in secondary literacy. Application of strategies to the reading, writing, and learning needs to adolescents will be emphasized. Areas of consideration will include classroom assessment of literacy study reading, and integrating trade books into the content classroom. Enrollment limited to graduate students seeking initial certification.

**READ 5345 - Stages and Standards for Reading Development**

3 sem. hrs. This course emphasizes effective reading practices that reflect state content and performance standards. Particular emphasis is placed on the interrelated components of reading and how these components apply in reading instruction. Equal emphasis is placed on primary, middle school, and high school students. This course is required for the Master Reading Teacher Certificate.

**READ 5346 - Trends and issues in Literacy**
3 sem. hrs. In this course students will examine the recent and past trends in literacy and the political, cultural, and research-based forces that influenced those trends. Attention will be given to how those trends have impacted and are impacting literacy instruction.

READ 5350 - Multicultural Literacy

3 sem. hrs. This is a graduate level course that focuses on issues pertaining to multicultural literacy and biliteracy. This course examines the educational issues confronting English language learners linguistically diverse students in our schools today. This course is required for the Master Reading Teacher Certificate.

READ 5352 - Theoretical Models of Reading and Writing

3 sem. hrs. This course is designed to provide teachers opportunities to expand their knowledge of the theoretical ways in which reading and writing processes are related and the practical ways in which these parallel processes can be incorporated into the literacy curriculum.

READ 5355 - Teaching Literacy through Technology

3 sem. hrs. In this course students explore research on the use of computers and related technology to (a) develop a more responsive literacy curriculum, and (b) determine literacy management and evaluation procedures in the technology environment.

READ 5357 - Critical Literacy

3 sem. hrs. Attention is on the theoretical and philosophical foundations of critical literacy. Students expand the lens through which literacy in schools may be viewed and develop a language of critique for analyzing literacy in social, political, and economic contexts.

READ 5369 - Content Area Reading

3 sem. hrs. In this course graduate students examine the theoretical and functional aspects of literacy across the curriculum. Emphasis is placed on (a) ways to promote and develop students’ abilities to learn through text-based instruction, (b) ways to promote the acquisition of study skills, and (c) ways to assist struggling readers in a classroom situation.

READ 5371 - Diagnosis and Correction of Reading Problems
3 sem. hrs. In this course students learn techniques for diagnosis and correction of reading problems as they work with children experiencing difficulty in learning to read. Prerequisite: 6 hours of graduate Reading courses including READ 5345.

**READ 5372 - Classroom Assessment and instruction**

3 sem. hrs. Course attention is on the selection and administration of appropriate reading assessments for all students. Particular focus is given to the role and use of reading assessment for planning, designing, and adjusting instruction to promote literacy learning for all learners. This course is required for the Master Reading Teacher Certificate. Prerequisite: READ 5345.

**READ 5381 - Exploring the Literature of Children and Adolescents**

3 sem. hrs. This course will examine the historical, social, and pedagogical developments of the field of literature for children and adolescents.

**READ 5390 - Professional Seminar: Special Topics in Literacy**

3 sem. hrs. The course addresses issues relevant to literacy. It may be repeated when topics vary.

**READ 5392 - Psycho-sociolinguistics and Reading**

3 sem. hrs. This course explores the psychology of language as well as the social semiotics of language learning. Theories of cognition and sociolinguistics will be examined as they relate to literacy development in regular and specialized learning contexts. Prerequisites: 6 hours of graduate Reading including READ 5345.

**READ 5393 - Literacy Curriculum and Supervision**

3 sem. hrs. Components of comprehensive reading programs in schools and districts will be examined, and strategies for literacy curriculum design and staff development will be explored. Emphasis will be on the literacy professional as a change agent and promoter of educational innovation. Prerequisites: 15 hours of graduate Reading courses including READ 5345, READ 5371, and READ 5392.

**READ 5395 - Leadership and Literacy**

3 sem. hrs. This course emphasizes how to disseminate reading research to critical stakeholders involved in education. Techniques include, but are not limited to, coaching,
collaborating, mentoring, and consulting with colleagues. This course is required for the Master Reading Teacher Certificate. Prerequisite: READ 5345.

READ 5396 - Literacy Research Seminar

3 sem. hrs. This seminar is the culminating course in the graduate reading concentration. Current trends in literacy research, the critical examination of selected research studies, and the self-evaluation of professional needs and interests are included. This course calls for students to integrate information from previous classes with new information presented in this class in order to develop, conduct, and evaluate action-based research. Prerequisites: 21 hours of graduate Reading courses including READ 5345, READ 5371, and READ 5392.

READ 5696 - Directed individual Study

1-6 sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

READ 5697 - Reading Practicum

6 sem. hrs. Students will have an opportunity to apply their knowledge of reading instruction by teaching children and youth with reading difficulties. They will gain knowledge of: the organization and management of the reading program, as well as early intervention strategies and programs. Literacy leaders and their contributions to the knowledge base for reading and writing instruction will be reviewed. Course requirements include the development of case studies on the children and youth being tutored. Some emphasis will also be placed on the many roles of the reading professional. Prerequisites: 9 hours of graduate Reading courses including READ 5345 and READ 5371.

READ 6310 - Emergent Literacy

3 sem. hrs. Language acquisition and functions of language are explored for beginning literacy P-4. Emphasis will be on classroom strategies for promoting language development and literacy growth for children through the integration of language systems (reading, writing, speaking, listening). Of particular concern will be children’s oral language, letter knowledge, reading and writing vocabulary, concepts about print, and auditory discrimination. Doctoral students enrolled in this course will be expected to complete all assignments designated for master’s students and also complete additional specified assignments. Students who took this course as READ 5310 may not take the course as READ 6310.
READ 6314 - College/adult Literacy

3 sem. hrs. Theories and research on reading, writing, and study processes of college and adult students will be explored. Students will learn about program design, teaching/learning strategies, and assessment procedures appropriate for developmental college students and adults. In addition, doctoral students will study topics related to educating adults in professional situations. Students who took this course as READ 5314 may not take the course as READ 6314.

READ 6345 - Stages and Standards for Reading Development

3 sem. hrs. This course emphasizes effective reading practices that reflect state content and performance standards. Particular emphasis is placed on the interrelated components of reading and how these components apply in reading instruction. Equal emphasis is placed on primary, middle school, and high school students. This course is required for the Master Reading Teacher Certificate. Doctoral students will complete a major research paper on a topic to be approved by the professor. Students who took this course as READ 5345 may not take the course as READ 6345.

READ 6350 - Multicultural Literacy

3 sem. hrs. This is a graduate level course that focuses on issues pertaining to multicultural literacy and biliteracy. This course examines the educational issues confronting English Language Learners and culturally and linguistically diverse students in our schools today. Doctoral students will have assignments that go beyond those for master’s students. Students who took this course as READ 5350 may not take the course as READ 6350.

READ 6352 - Theoretical Bases for Literacy

3 sem. hrs. Course focus is on major theories of reading and literacy in terms of both processes and practices. It also attends to ways in which theory relates to the literacy curriculum.

READ 6356 - Writing for Publications in Higher Education

3 sem. hrs. This course addresses topics in writing for publication in higher education including the writing process, composition, organization, collaboration, and the identification of forums for dissemination of research and scholarship.

READ 6357 - Critical Literacy
3 sem. hrs. Attention is on the theoretical and philosophical foundations of critical literacy. Students expand the lens through which literacy in schools may be viewed and develop a language of critique for analyzing literacy in social, political, and economic contexts. Doctoral students have assignments that go beyond those for master’s students. Students who took this course as READ 5357 may not take the course as READ 6357.

**READ 6369 - Content Area Reading**

3 sem. hrs. In this course graduate students examine the theoretical and functional aspects of literacy across the curriculum. Emphasis is placed on (a) ways to promote and develop students’ abilities to learn through text based instruction, (b) ways to promote the acquisition of study skills, and (c) ways to assist struggling readers in a classroom situation. Doctoral students enrolled in this course will be expected to complete all assignments designated for the master’s level students and also complete additional specified assignments. Students who took this course as READ 5369 may not take the course as READ 6369.

**READ 6371 - Diagnosis and Correction of Reading Problems**

3 sem. hrs. In this course, students will become aware of the factors that influence reading achievement through the study and implementation of various assessments. Some attention will also be paid to instructional strategies. The primary focus will be on children who are having difficulty reading. Students who took this course as READ 5371 may not take the course as READ 6371.

**READ 6372 - Classroom Assessment and instruction**

3 sem. hrs. Course attention is on the selection and administration of appropriate reading assessments for all students. Particular focus is given to the role and use of reading assessment for planning, designing, and adjusting instruction to promote literacy learning for all learners. Students who took this course as READ 5372 may not take the course as READ 6372.

**READ 6380 - Advanced Studies in Literature for Children and Adolescents**

3 sem. hrs. This course will examine the historical, sociological, and pedagogical developments of the field of literature for children and adolescents and will emphasize teacher research and inquiry. The major emphasis of the course will focus on awareness of both traditional and contemporary literature and authors for children and adolescents.

**READ 6390 - Special Topics in Reading**
3 sem. hrs. The course addresses contemporary issues in education. It may be repeated when topics vary.

**READ 6391 - Evaluation of Literacy Methods, Materials, and Assessment**

3 sem. hrs. Reading professionals taking the course acquire the knowledge and strategies to evaluate literacy-related materials, methodologies, and assessment. In addition, they will develop a process to evaluate teacher-produced and commercial materials.

**READ 6392 - Psycho-sociolinguistics and Reading**

3 sem. hrs. This course explores the psychology and the social semiotics of language and their relationship to literacy teaching and learning. Theories of cognition and sociolinguistics will be examined as frameworks for better understanding literacy development. Semiotics is the study of the signs and symbols of language and deals with their functions in the syntactic, semantic, and pragmatic use of language. Doctoral students will complete a major research paper on a topic to be approved by the professor. Students who took this course as READ 5392 may not take the course as READ 6392.

**READ 6393 - Literacy Curriculum and Supervision**

3 sem. hrs. Components of comprehensive reading programs in schools and districts will be examined, and strategies for literacy curriculum design and staff development will be explored. Emphasis will be on the literacy professional as a change agent and promoter of educational innovation. Prerequisites: 9 hours of graduate Reading including READ 5345/6345, READ 5371/6371, and READ 5392/6392. Students who took this course as READ 5393 may not take the course as READ 6393.

**READ 6395 - Leadership and Literacy**

3 sem. hrs. This course emphasizes “how” to disseminate reading research to critical stakeholders involved in education. Techniques include, but are not limited to, coaching, collaborating, mentoring, and consulting with colleagues. This course is required for the Master Reading Teacher Certificate. Prerequisite: READ 5345 or READ 6345. Students who took this course as READ 5395 may not take the course as READ 6395.

**READ 6396 - Literacy Research Seminar**

3 sem. hrs. In this doctoral-level course in reading/literacy research, attention goes to historical and current trends in literacy research, the critical examination of selected reading research studies, and self analysis of personal and professional interests and needs. This course calls for students to integrate information from previous graduate
classes with information presented in this class to analyze and implement reading/literacy research. Doctoral students enrolled in this course will be expected to complete all assignments designated for the master’s level students and also complete additional specified assignments. Students who took this course as READ 5396 may not take the course as READ 6396. Prerequisite: Six graduate hours in Reading coursework.

**READ 6398 - Advanced Reading Supervision Practicum**

3 sem. hrs. In this course, reading specialists will be provided with an opportunity to apply their supervisory skills in a practical situation. Students will observe and evaluate inservice teachers, as well as make suggestions for improvement. Course requirements include completion of teacher evaluation summaries; development of observation forms; description of a district-wide reading program; and planning and implementation of an inservice workshop. Prerequisite: READ 5697 or READ 6697, READ 6391, READ 6352, EDLD 6333, EDLD 6392.

**READ 6399 - Advanced Literacy Research Seminar**

3 sem. hrs. This course is designed to familiarize doctoral students with (a) historical avenues of literacy research, (b) current trends in literacy research, and (c) procedures for conducting personal research leading to a doctoral dissertation in some aspect of literacy education. Prerequisite: EDLD 6333.

**READ 6696 - Directed Individual Study**

1-6 hrs. sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

**READ 6697 - Reading Clinic Practicum**

6 sem. hrs. In this course students will have an opportunity to apply their knowledge of reading instruction by teaching children with reading difficulties. In addition, students will gain knowledge of strategies for comprehension, word recognition and study skills. Literacy leaders and their contributions to the knowledge base for reading and writing instruction will be reviewed. Course requirements include the development of case studies. Doctoral students have additional assignments that go beyond those required of master’s students. Students who took this course as READ 5697 may not take the course as READ 6697. Prerequisites: READ 5371 or READ 6371.

**Science, Mathematics and Technology Education**
Graduate courses in Science, Mathematics and Technology Education are offered in support of graduate degree programs in computer science, education, the sciences, and mathematics. For details concerning these degree programs, consult the College of Science and Engineering section of the catalog.

For Additional Information

Website: http://smte.tamucc.edu

Campus address: Science and Technology Building, Room 207; Phone (361) 825-2819

Mailing address: Science, Mathematics and Technology Education Program, Unit 5811
College of Science and Technology
Texas A&M University-Corpus Christi
6300 Ocean Drive, Corpus Christi, Texas 78412-5811

SMTE 0091 - Biological Laboratory Safety Seminar

0 sem. hrs. This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

SMTE 0092 - Biomedical Laboratory Safety Seminar

0 sem. hrs. This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

SMTE 0093 - Chemistry Laboratory Safety Seminar

0 sem. hrs. This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of
hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

**SMTE 0094 - Geology Laboratory Safety Seminar**

**0 sem. hrs.** This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

**SMTE 0095 - Physics Laboratory Safety Seminar**

**0 sem. hrs.** This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

**SMTE 0096 - Environmental Science Laboratory Safety Seminar**

**0 sem. hrs.** This non-credit course is designed as an on-line offering that must be passed by students each semester and at a grade of 100%. Students will be responsible for taking safety courses with different course numbers of SMTE, as each lab must meet different safety requirements as specified by the A&M System, depending on the types of hazardous materials used in each lab. Students will not be charged a fee for taking these courses.

**SMTE 5004 - Teaching Assistant Seminar**

**0 sem. hrs.** Examination of contemporary theories of teaching and learning. Basic lesson design, teaching skills, assessment, multicultural education, time management, classroom management, lab safety, and other required training skills required for laboratory. Course content will be linked to participants' experiences as teaching assistants. Course is taken as 0 credit hour. Offered fall and spring semesters every year.

**Sociology**
SOCI 5396 - Individual Study

3 sem. hrs. Individual study, reading or research with faculty direction and evaluation. Offered on application to and approval of the program coordinator.

SOCI 6312 - Community Development

3 sem. hrs. Ethical perspectives on community development; processes by which groups within a community work together to fulfill community needs through inter-institutional cooperation; establishing cross-institutional linkages; public and private resources for community development; structures and processes of inter-institutional cooperation. This course is open only to students admitted to doctoral study.

SOCI 6313 - Regional Analysis

3 sem. hrs. Sources of data for defining social, economic, demographic, educational, and cultural characteristics of a region; modes of data analysis for ascertaining regional resources and problems; review and analysis of data relative to South Texas Region. This course is open only to students admitted to doctoral study.

Spanish

SPAN 5320 - Seminar on Peninsular Literature

3 sem. hrs. Detailed studies concentrating on themes, specific authors, and literary movements. May be repeated when topics vary.

SPAN 5330 - Seminar in Spanish-American Literature

3 sem. hrs. Detailed studies concentrating on themes, specific authors, and literary movements. May be repeated when topics vary.

SPAN 5340 - Seminar in Spanish Linguistics

3 sem. hrs. Detailed aspects of Spanish linguistics, such as history of the Spanish language, dialectology, sociolinguistics, morpho-syntax, Spanish in the United States, bilingualism, or Spanish in the Americas. May be repeated when topics vary.

SPAN 5396 - Individual Study
3 sem. hrs. Individual study, reading or research with faculty direction and evaluation. Offered on application to and approval of the program coordinator.

SPAN 5699 - Workshop in Spanish

1-6 sem. hrs. Consideration of current problems and approaches in Spanish language, literature or teaching. May be repeated when topics vary. May be offered on a “credit” or “no-credit” basis.

Special Education

SPED 5310 - Psychoeducational Testing

3 sem. hrs. Provides the competencies needed to be proficient in individual testing, scoring, and interpretation of tests for individual psychoeducational assessment within the context of special education. Instructor's permission required. Prerequisites CNEP 5371 and CNEP 5374.

SPED 5311 - Advanced Assessment

3 sem. hrs. Educational Diagnosticians are typically charged with administering the assessments that assist multidisciplinary teams with special education eligibility determinations and the planning of individualized education plans (IEPs). In this course, academic and cognitive assessments are combined for interpretations, students are exposed to a variety of testing instruments, and Full and Individual Evaluations are developed for various categories of disability. Students will learn how to administer, score and interpret the Woodcock Johnson III Cognitive, and apply the Cattell-Horn-Carroll (CHC) Theory of Cognitive Abilities, to practice the Cross-battery assessment.

SPED 5315 - Individuals with Exceptionalities in the Schools

3 sem. hrs. Basic information and skills for working with individuals with exceptionalities in a variety of settings. Includes current trends, issues and research pertaining to individuals with disabilities. Students who have taken SPED 5315 may not enroll in SPED 6315.

SPED 5319 - Introduction to Low-Incidence Disabilities

3 sem. hrs.
This course introduces students to the field of low-incidence disabilities. Students will explore foundational concepts including: definition and etiology, family and professional partnerships, special education law, and standards based IEPs.

SPED 5320 - Application of Learning Principles

3 sem. hrs. This course trains teachers, administrators, counselors and diagnosticians to use a variety of applied learning principles to increase student learning and minimize disruptive behavior.

SPED 5321 - Supporting Access for Students with Low-Incidence Disabilities

3 sem. hrs. This course focuses on areas of universal design, assistive technology, and resources that support the learning and independence of diverse learners both in school and community settings. Class sessions will be held both on campus and in community settings.

SPED 5324 - Survey of Assistive Technology

3 sem. hrs. This course is an introduction to assistive technology for individuals with disabilities.

SPED 5325 - Technology for inclusion

3 sem. hrs. This course will focus on the use of assistive technology to support and facilitate inclusion of students with disabilities in the classroom. Prerequisite: ETEC 5301.

SPED 5326 - Assistive Technology Assessment

3 sem. hrs. This course will provide systematic procedures for the assessment of individual student's assistive technology needs. Legal issues of assistive technology and its impact on public education will be addressed. Prerequisite: ETEC 5301.

SPED 5327 - Motor Activity Programs for individuals with Disabilities

3 sem. hrs. This course examines the significant role of motor activity in the lives of people with disabilities. Major programmatic approaches to adapted physical activity are presented.
SPED 5340 - Individuals with Multiple Disabilities

3 sem. hrs. Advanced study of the adaptations, approaches, and supports necessary to meet the educational needs of students who have communication, intellectual, motor, sensory, and/or medical impairments.

SPED 5380 - Students with Behavior Disorders

3 sem. hrs. This course will focus on characteristics and classifications of children and adolescents with behavior disorders. Intervention orientations and associated education/treatment approaches for children and adolescents will be explained.

SPED 5385 - Foundations in Language Minority Special Education

3 sem. hrs. The philosophical and legal foundations of bilingual special education and bilingual education in the United States will be examined. Bilingual special education and bilingual education will be defined and the rationale for these programs will also be explained. Moreover, language minority education program models will be described and aspects associated with bilingualism will be discussed. Special emphasis will be placed on a perusal of school-community dynamics relevant to language minority special education.

SPED 5386 - Reading and Language Strategies for Students with Exceptionalities

3 sem. hrs. This course focuses on reading and language strategies for teaching language majority and language minority students with exceptionalities.

SPED 5387 - Content-area Strategies for Students with Exceptionalities

3 sem. hrs. This course focuses on content-area strategies for teaching language majority and language minority students with exceptionalities.

SPED 5390 - Professional Seminar

1-3 sem. hrs. Topics in Special Education vary with professional identification of participants. Instructor’s permission required.

SPED 5397 - Special Education Field Experience

3 sem. hrs. A field experience in which the student will demonstrate competencies to design and implement IEPs for language majority and language minority students with
exceptionalities. Prerequisites: SPED 5315, SPED 5380, SPED 5320, and SPED 5387. Grade assigned will be “credit” (CR) or “no credit” (NC).

**SPED 5399 - Individualized Programs for Students with Exceptionalities: Practicum**

3 sem. hrs. A practicum in which the student will demonstrate competencies in designing and implementing individualized education programs (IEP). Instructor's permission required. Prerequisites: CNEP 5371, CNEP 5374, SPED 5310, SPED 5315, and SPED 5387. Grade assigned will be “credit” (CR) or “no credit” (NC).

**SPED 5696 - Directed individual Study**

1-6 sem. hrs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.

**SPED 6315 - Individuals with Exceptionalities in the Schools**

Basic information and skills for working with individuals with exceptionalities in a variety of settings. Includes current trends, issues and research pertaining to individuals with disabilities. Students who have taken SPED 5315 may not enroll in SPED 6315.

**Theatre**

**THEA 5370 - Seminar in Theatre**

3 sem. hrs. Selected topics that investigate the history, theory, and production of drama including Dramatic Criticism, Technical Theatre, Directing Problems, and Theatre History. May be repeated when topics vary.

**THEA 5371 - Styles of Acting**

3 sem. hrs. Intensive exploration of various performance styles for the actor from the Classical to Contemporary Periods. Prerequisite: THEA 3375 or equivalent.

**THEA 5372 - Stage Direction**

3 sem. hrs. Intensive study and practice in the principles of stage direction including stage movement, script analysis, theatre aesthetics, and audience analysis. Prerequisite: THEA 4360 or equivalent.
THEA 5384 - Theatre Production

1-3 sem. hrs. An applied production experience in which students perform in a play, work back stage or on a stage crew, direct 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 and department chair in advance of registration. As part of the application process the number of credit hours will be determined by the instructor. May be repeated twice for credit.

THEA 5396 - Individual Study

3 sem. hrs. Individual study, reading or research with faculty direction and evaluation. Credit for this course is limited to 6 hours in any degree plan. Offered on application to and approval of the program coordinator.

Faculty, Regents, and Administration

Graduate Faculty

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V |
| W | X | Y | Z |

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Adjunct Graduate Faculty; B.A., Washington College; M.S.Ed., Southern Illinois University; Ed.D., Texas A&M University-Commerce.

Pirkey, Trey
Adjunct Graduate Faculty; B.S.N., M.S.N, F.N.P., Texas A&M University.

Pollack, Jennifer
Associate Graduate Faculty; B.A., Northwestern University; M.S., Ph.D., University of South Carolina.

Prue-Owens, Kathy Kay
Adjunct Graduate Faculty; B.S.N., University of Nebraska-Kearney; M.N., University of Washington; Ph.D., University of Arizona.

Rappaport, Bethany
Adjunct Graduate Faculty; B.S.N., M.S.N., N.P., University of Texas at Galveston.

Reese, Elizabeth
Adjunct Graduate Faculty; B.S., Towson State University; M.A., Texas A&M University-Corpus Christi; Ph.D., Pennsylvania State University.

Rivera, Esmeralda
Adjunct Graduate Faculty; B.S.N., F.N.P., The university of Texas-Pan American; M.S.N., A.N.P., The University of Texas at Houston.
Ross, Alicia

Special Appointment; B.A., Baldwin-Wallace College; M.F.A., Rochester Institute of Technology.

Rossell, Debra

Adjunct Graduate Faculty; B.S.N., Texas Women’s University; M.S.N., University of Texas-Arlington.

Sample, Janice

Adjunct Graduate Faculty; B.S., East Texas State University; B.S.N., University of Texas-Arlington; M.S.N., University of Arkansas; F.N.P., University of Texas at Tyler.

Schmidt, Rhonda

Adjunct Graduate Faculty; B.S.N., Stephen F. Austin State University; M.S.N., F.N.P., University of Texas at Galveston.

Simmons, Heather

Assistant Clinical Professor of Nursing; B.S., Middle Tennessee State University; M.S., Barry University

Simmons, Steven

Adjunct Graduate Faculty; B.A., M.A., Texas A&I University; Ed.D., East Texas State University.

Smith, Dru

Special Appointment; B.S., M.S., Ph.D., Ohio State University.

Smith, Richard A.

Special Appointment; B.S., M.S., Texas A&M University-Corpus Christi; Ph.D., University of Georgia.
Smith, Leslie
Adjunct Graduate Faculty; B.S.N., Baylor University; M.S.N., University of Texas at Arlington.

Smith, Victoria
Special Appointment; B.A., Marshall University; M.S., Texas A&M University-Corpus Christi; Ed.D., Texas A&M University-Kingsville.

Sukauskaite, Audra
Special Appointment;

Thomas, Andrew
Special Appointment; B.S., McGill University; M.S., Ph.D., University of British Colombia.

Thornberry, Amy
Adjunct Graduate Faculty; B.S.N., University of Texas at Austin; M.S.N., Texas A&M University-Corpus Christi.

Tinterra, Ping “Charlene”
Associate Graduate Faculty; B.S., Yung-Ta College of Technology and Commerce, Taiwan; B.B.A., Soochow University, Taiwan; M.S., Texas A&M University-Kingsville; Ed.D., Texas A&M University-Corpus Christi.

Torres, Judge Amanda Nicole
Special Appointment; B.A., Texas A&M University-College Station; J.D., Saint Mary’s University School of Law.

Vega, Robert
Adjunct Graduate Faculty; B.S., Texas A&M University-Galveston; M.S., Corpus Christi State University; Ph.D., Texas A&M University.
Vela, Norma Vilches
Clinical Assistant Professor of Nursing; BSN, University of Texas, Austin; MSN, University of Phoenix.

Wetz, Miahael

Winemiller, Kirk
Special Appointment; B.A., M.S., Miami University-Oxford Ohio; Ph.D., University of Texas.

Wood, Tony
Special Appointment; A.S., Del Mar College; B.S., Corpus Christi State University; MS, American Military University, American Public University System.

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**Emeritus Faculty and Administrative Officers**

(As of May 2011)

Since 1994 Texas A&M University-Corpus Christi has awarded emeritus status to distinguished former faculty members and administrators in recognition of significant contributions to the University. Many emeritus faculty members and administrators continue to serve the University during their retirement.

**Presidents Emeritus**

Furgason, Robert R.
Vice Presidents Emeritus
Davis, Wallace, Vice President Emeritus for Academic Affairs.

**Deans Emeritus**
Bakke, Ruth M., Dean Emeritus, College of Science and Engineering.
Cox, Robert L., Dean Emeritus, College of Education.
Marinez, Diana Marinez, Dean Emeritus, College of Science & Technology
Richards, John M., Dean Emeritus, College of Business.
Wagenschein, Miriam, Dean Emeritus, College of Liberal Arts.

Faculty Emeritus

Barnes, Stephen S., Professor Emeritus of Chemistry.
Berkebile, Alan, Professor Emeritus of Geology.
Carpenter, John M., Professor Emeritus of Management.
Carrillo, Leonardo, Professor Emeritus of Mexican American Studies.
Cross, Wilton Ray, Professor Emeritus of Educational Leadership
Drum, Randell, Professor Emeritus of Education.
Ellzey, Roy S., Professor Emeritus of Computer Science.
Freeman, Janice R., Professor Emeritus of Biology.
Freeman, Joyce F., Professor Emeritus of Biology.
Haswell, Richard, Professor Emeritus of English.
Haynes, Herbert R., Professor Emeritus of Computer Science.
Howard, Ronald M., Professor Emeritus of Education.
Joyner, Betty C., Professor Emeritus of Management.
Knight, Earnest Leon, Professor Emeritus of Marketing.

Maroney, Robert E., Professor Emeritus of Education.
Mead, David, Professor Emeritus of English.

McMinn, Robert D., Professor Emeritus of Economics.
Meyer, Patricia, Professor Emeritus of Early Childhood Education.
Norrell, Clarence L., Professor Emeritus of Education.
Pennington, Marie, Associate Professor Emeritus of Kinesiology.
Purdy, Ross, Professor Emeritus of Sociology.
Stevenson, John W., Professor Emeritus of Accounting.
Treviso, Albert D., Professor Emeritus of Education.
Wagenschein, Miriam, Professor Emeritus of Sociology.
Weiner, Lawrence, Professor Emeritus of Music and Composer-in-Residence Emeritus.

Graduate Council

The purpose of the Graduate Council is to consider all matters relating to graduate programs at Texas A&M University-Corpus Christi and to recommend practices and
policies that enhance the quality of the University’s graduate programs. The Graduate Council serves as the advisory body to the Graduate Dean. The membership is available here.

The Texas A&M University System (As of May 2011)
Board of Regents
The membership is available here.

Administration (As of May 2011)
Officers of the Administration can be found here.

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.

**Full Time**
A degree-seeking undergraduate attempting 12 or more semester hours in a semester. A degree-seeking graduate student attempting 9 semester hours in a semester.

**GPA**
Grade Point Average. Please check elsewhere in this catalog for method of calculation.

**Graduation**
The ceremonial completion of a degree program. The degree is not awarded until all academic requirements are certified as completed. The student initiates application for graduation at point of registration for last term of study. Application must be processed for each attempt.

**Graduate Student**
A student who holds a baccalaureate degree and is enrolled in a graduate program of study.

**Hold**
A note placed in a student record which restricts a particular activity. Only the office which places a hold can remove it.

**Late Registration**
A period beginning with the first day of classes and ending on or before the census date during which registration may occur. Special permission may be required. A late registration fee is assessed.

**Matriculation**
The initial registration as a degree-seeking student toward a particular degree. A student matriculates once for each degree.
**Non-Degree Student**

One taking classes without the expectation of receiving a degree. A nondegree student is neither part time nor full time, and is not classified as freshman, sophomore, junior, or senior.

**Pre/Co Requisite**

A requirement that must be completed before/at the same time a course may be attempted.

**Registration**

Reserving space in a course (a process called tallying) followed by payment of all tuition and fees: it is a two-part process. Registration is not completed until payment has occurred.

**Restricted Course**

One for which admission is limited to a particular classification of student. A student who has been enrolled in error can be removed administratively.

**Transcript**

A record of a student's academic history at the University. It is prepared by the Office of Admissions and Records. Please check with that office for preparation schedule and fees.

**Withdrawal**

The process of dropping **all** classes for a given term. A check-out process is involved, and the student is not associated with the University until he/she seeks reinstatement for a subsequent term.

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**B: Course Abbreviations**

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>
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</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>Program</td>
<td>Code</td>
<td>Department</td>
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<td>----------------------------------------------</td>
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</tr>
<tr>
<td>Accounting</td>
<td>ACCT</td>
<td>Business</td>
</tr>
<tr>
<td>Anthropology</td>
<td>ANTH</td>
<td>Liberal Arts</td>
</tr>
<tr>
<td>Art</td>
<td>ARTS</td>
<td>Liberal Arts</td>
</tr>
<tr>
<td>Astronomy</td>
<td>ASTR</td>
<td>Science and Technology</td>
</tr>
<tr>
<td>Bilingual/ESL/Multicultural</td>
<td>BIEM</td>
<td>Education</td>
</tr>
<tr>
<td>Biology</td>
<td>BIOL</td>
<td>Science and Technology</td>
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<tr>
<td>Biomedical Sciences</td>
<td>BIMS</td>
<td>Science and Technology</td>
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<tr>
<td>Business Administration</td>
<td>BUSI</td>
<td>Business</td>
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<tr>
<td>Business Law</td>
<td>BLAW</td>
<td>Business</td>
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<tr>
<td>Chemistry</td>
<td>CHEM</td>
<td>Science and Technology</td>
</tr>
<tr>
<td>Coastal and Marine System Science</td>
<td>CMSS</td>
<td>Science and Technology</td>
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<tr>
<td>Communication</td>
<td>COMM</td>
<td>Liberal Arts</td>
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<tr>
<td>Computer Science</td>
<td>COSC</td>
<td>Science and Technology</td>
</tr>
<tr>
<td>Counselor Education/Educational Psychology</td>
<td>CNEP</td>
<td>Education</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>CRIJ</td>
<td>Liberal Arts</td>
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<tr>
<td>Dance</td>
<td>DANC</td>
<td>Liberal Arts</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>ECED</td>
<td>Education</td>
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<tr>
<td>Economics</td>
<td>ECON</td>
<td>Business</td>
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<tr>
<td>Education/Student Teaching</td>
<td>EDUC</td>
<td>Education</td>
</tr>
<tr>
<td>Educational Administration</td>
<td>ECED</td>
<td>Education</td>
</tr>
<tr>
<td>Educational Curriculum &amp; Instruction</td>
<td>EDCI</td>
<td>Education</td>
</tr>
<tr>
<td>Field</td>
<td>Code</td>
<td>College</td>
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<td>--------------------------------------------</td>
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<tr>
<td>Educational Foundations</td>
<td>EDFN</td>
<td>Education</td>
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<tr>
<td>Educational Leadership</td>
<td>EDLD</td>
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<td>Educational Technology</td>
<td>ETEC</td>
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<tr>
<td>Engineering</td>
<td>ENGR</td>
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<tr>
<td>Engineering Technology</td>
<td>ENTC</td>
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<tr>
<td>English</td>
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<tr>
<td>Environmental Science</td>
<td>ESCI</td>
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<tr>
<td>Finance</td>
<td>FINA</td>
<td>Business</td>
</tr>
<tr>
<td>Fisheries and Mariculture</td>
<td>FAMA</td>
<td>Science and Technology</td>
</tr>
<tr>
<td>French</td>
<td>FREN</td>
<td>Liberal Arts</td>
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<tr>
<td>Geographic Information Science</td>
<td>GISC</td>
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</tr>
<tr>
<td>Geography</td>
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<td>Liberal Arts</td>
</tr>
<tr>
<td>Geology</td>
<td>GEOL</td>
<td>Science and Technology</td>
</tr>
<tr>
<td>Geospatial Surveying Engineering</td>
<td>GSEN</td>
<td>Science and Technology</td>
</tr>
<tr>
<td>German</td>
<td>GERM</td>
<td>Liberal Arts</td>
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<tr>
<td>Health</td>
<td>HLTH</td>
<td>Education</td>
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<tr>
<td>Health Care Administration</td>
<td>HCAD</td>
<td>Nursing and Health Sciences</td>
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<tr>
<td>Health Sciences</td>
<td>HLSC</td>
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<tr>
<td>History</td>
<td>HIST</td>
<td>Liberal Arts</td>
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<tr>
<td>Honors</td>
<td>HONR</td>
<td>Honors Program</td>
</tr>
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<td>Kinesiology</td>
<td>KINE</td>
<td>Education</td>
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<tr>
<td>Management</td>
<td>MGMT</td>
<td>Business</td>
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<tr>
<td>Field</td>
<td>Code</td>
<td>College</td>
</tr>
<tr>
<td>--------------------------------------------</td>
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</tr>
<tr>
<td>Management Information Systems</td>
<td>MISY</td>
<td>Business</td>
</tr>
<tr>
<td>Marketing</td>
<td>MKTG</td>
<td>Business</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MATH</td>
<td>Science and Technology</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>MEEN</td>
<td>Science and Technology</td>
</tr>
<tr>
<td>Mexican American Studies</td>
<td>MXAS</td>
<td>Liberal Arts</td>
</tr>
<tr>
<td>Military Science</td>
<td>MSCI</td>
<td>Education</td>
</tr>
<tr>
<td>Music</td>
<td>MUSI</td>
<td>Liberal Arts</td>
</tr>
<tr>
<td>Music (ensemble)</td>
<td>MUEN</td>
<td>Liberal Arts</td>
</tr>
<tr>
<td>Music (applied)</td>
<td>MUAP</td>
<td>Liberal Arts</td>
</tr>
<tr>
<td>Nursing</td>
<td>NURS</td>
<td>Nursing and Health Sciences</td>
</tr>
<tr>
<td>Occupational Training &amp; Development</td>
<td>OCTD</td>
<td>Education</td>
</tr>
<tr>
<td>Operations Management</td>
<td>OPSY</td>
<td>Business</td>
</tr>
<tr>
<td>Operations Research/Management Science</td>
<td>ORMS</td>
<td>Business</td>
</tr>
<tr>
<td>Philosophy</td>
<td>PHIL</td>
<td>Liberal Arts</td>
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<tr>
<td>Physics</td>
<td>PHYS</td>
<td>Science and Technology</td>
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<tr>
<td>Political Science</td>
<td>POLS</td>
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<td>Psychology</td>
<td>PSYC</td>
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<tr>
<td>Public Administration</td>
<td>PADM</td>
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<td>Reading Education</td>
<td>READ</td>
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<td>Science, Mathematics and Technology Education</td>
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<tr>
<td>Social Work</td>
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<tr>
<td>Sociology</td>
<td>SOCI</td>
<td>Liberal Arts</td>
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</tbody>
</table>
C: Prevention of Alcohol Abuse and Illicit Drug Use

Texas A&M University-Corpus Christi is committed to a campus-wide plan to educate students and employees about alcohol and drug issues, discourage the irresponsible use of alcoholic beverages, and prohibit the unlawful use, possession or distribution of controlled substances. The University will act to ensure compliance with all local, state, and federal laws, System policies and University rules and procedures dealing with controlled substances, illicit drugs, and the use of alcohol. The Student Handbook and Code of Conduct provides information on alcohol and drug rules and university sanctions. To review the Student Code of Conduct online, go to http://judicialaffairs.tamucc.edu.

Alcohol and Drug Rules

The University prohibits the use or possession of alcoholic beverages on campus by any individual under the age of 21. Failure to comply with this rule violates state law and the rules governing student conduct and will subject the individual to disciplinary action.

Students of lawful age under Texas Statutes may possess and/or consume alcoholic beverages in the privacy of their rooms or apartments in campus residence facilities. However, residence hall occupants and their guests must comply with state and local statutes concerning possession, sale, and consumption of alcoholic beverages. Any use of alcoholic beverages should be in moderation. Therefore, bulk quantities of alcohol (kegs, cases, party balls, etc.) are not allowed on campus or in residence facilities. Loud or disruptive behavior, interference with the cleanliness of residence facilities, or drinking habits that are harmful to the health or education of an individual or those around him/her are reasons for appropriate disciplinary action by the University.
With limited exceptions, the possession of open containers and the consumption of beer, wine, and/or distilled spirits is prohibited in all public areas of the campus. For the purposes of this rule, residence hall balconies and patios are considered public areas. Although students of lawful age may possess and consume alcoholic beverages in the privacy of their rooms or apartments, all alcoholic beverages transported through public areas on the University grounds and in residence facilities must be unopened and concealed.

All members of the University community are expected to abide by state and federal laws pertaining to controlled substances and illicit drugs. Standards of conduct strictly prohibit the unlawful manufacture, distribution, possession or use of controlled substances, illicit drugs or drug paraphernalia on University property, at University-sponsored activities, and/or while on active duty. Individuals may use prescription medications that are medically necessary and prescribed by a licensed physician.

While the University has limited jurisdiction when alcoholic beverages and illegal drugs are consumed off-campus, members of the University community are encouraged to consider these regulations as a guideline for responsible and lawful behavior. Any recognized student organization that plans to include alcohol at an official function off-campus must obtain permission from Student Activities under the University risk management guidelines. Failure to comply with this requirement will be reason for appropriate disciplinary action by the University.

**Alcohol and Drug Use Prevention Program**

To implement an effective drug and alcohol abuse prevention plan, the University will use both formal and informal channels of communication to: 1) disseminate information describing patterns of addiction and the physical, mental, and emotional consequences that result from the abuse of alcohol and controlled/illegal substances, 2) distribute information that describes and encourages the use of counseling and treatment modalities available to both students and employees in the local and regional area, and 3) make available to the campus population referrals to local treatment centers and counseling programs. These referrals will be made within a supportive, confidential, and non-punitive environment under the auspices of the University Health Center, Counseling Center, and/or Human Resources.

**University Sanctions**

Students suspected or found in violation of University drug or alcohol rules and regulations will be notified in writing to appear for a hearing with a judicial affairs officer. Procedures for hearings are outlined in the Student Code of Conduct.
A student found responsible for violating the rules and regulations will be subject to sanctions commensurate with the offenses and any aggravating and mitigating circumstances. Disciplinary actions in cases involving alcohol and drug-related violations result in sanctions up to and including suspension or expulsion from the University and referral for prosecution. Any disciplinary action imposed by the University may precede and be in addition to any penalty imposed by an off-campus authority. Students will be advised of available alcohol and drug counseling at the University Counseling Center and/or referred to a community organization. The University Counseling Center and the University Health Center can provide assistance and referral to appropriate community agencies.

Advisors and faculty members have the responsibility to supervise student activities on all trips. Faculty members should inform students that actions violating state laws, local regulations, and University rules regarding alcohol and drugs will not be permitted on any University trip. Students who violate these guidelines regarding alcohol and drug use on field trips will be subject to disciplinary action.

**Health Risks**

Alcohol abuse can cause many health-related problems. Approximately 150,000 deaths annually are directly related to alcohol abuse and/or alcoholism. Alcohol abuse can lead to alcoholism, premature death through overdose, and complications involving the brain, heart, liver, and many other body organs. Alcohol abuse is a prime contributor to suicide, homicide, motor vehicle deaths, and other accidental causes of death.

Alcohol abuse also causes liver disease, gastritis, and anemia. Alcohol abuse interferes with psychological functions, causes interpersonal difficulties, and is involved in many cases of child abuse. Alcohol abuse also disrupts occupational effectiveness and causes legal and financial problems. Alcohol used in any amount by a pregnant woman can cause birth defects.

The abuse of illicit drugs can result in a wide range of health problems. In general, illicit drug use can result in drug addiction, death by overdose, death from withdrawal, seizures, heart problems, infections (i.e., HIV/AIDS, hepatitis), liver disease, and chronic brain dysfunctions. Other problems associated with illicit drug use include psychological dysfunctions such as memory loss, thought disorders (i.e., hallucinations, paranoia, psychosis), and psychological dependency. Additional effects include occupational, social, and family problems as well as a reduction in motivation. Drug use by a pregnant woman may cause addiction or health complications in her unborn child.

**Campus Resources**
A&M-Corpus Christi offers a variety of programs to promote healthy lifestyles and substance-free alternatives. Students can become involved with the planning of drug and alcohol education programs by contacting the Division of Student Affairs at 361-825-2612.

University Counseling Center - The University Counseling Center offers students individual counseling, educational programming and support groups focused on alcohol and other drug use, abuse and addiction. An Alcohol Education Program for Minors is also available for minors cited/charged with alcohol-related offenses (MIP, DUI, and Public Intoxication). For more information, call 361-825-2703 or visit the web site at http://counseling.tamucc.edu.

University Health Center - The University Health Center can provide information about the health risks of drug and alcohol abuse, as well as general medical care for students. For more information, call 361-825-2601.

I-ADAPT - I-ADAPT (Islander’s Alcohol and Drug Abuse Prevention Team) is committed to promoting healthy choices among the A&M-Corpus Christi campus community in order to reduce the negative consequences of alcohol and drug use/abuse. For more information, call 361-825-2612.

National Collegiate Alcohol Awareness - Each year, I-ADAPT plans a variety of interactive and educational events during the month of October in conjunction with National Collegiate Alcohol Awareness Week. Call 361-825-2703 for more information.

University Police Department - The University Police Department educates the University community about drug and alcohol issues as well as enforces local, state and federal law. For more information, call 361-825-4444.

Annual Security Report - This report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by A&M-Corpus Christi; and on public property within, or immediately adjacent to and accessible from, the campus. The report also includes institutional policies concerning campus security, such as policies concerning sexual assault, and other matters. Obtain a copy of this report by contacting the University Police Department 361-825-4444 or by accessing the following web site: http://falcon.tamucc.edu/~police/UPD/statis.htm.

**D: Hazing**

The following is a summary of Chapter 37, subchapter F. (§§ 37.151-157) of the Texas Education Code, which prohibits hazing in Texas public or private high schools. Texas
Education Code § 51.936 applies Chapter 37’s prohibition on hazing to institutions of higher education. This summary of Chapter 37 is provided as required by § 51.936(d).

The Education Code defines hazing as “any intentional, knowing, or reckless act, occurring on or off the campus of an educational institution, by one person alone or acting with others, directed against a student, that endangers the mental or physical health or safety of a student for the purpose of pledging, being initiated into, affiliating with, holding office in, or maintaining membership in an organization.” The statute contains a list of conduct which constitutes hazing.

Hazing is a criminal violation under Texas law. A person may be found guilty of criminal conduct for hazing, encouraging hazing, permitting hazing, or having knowledge of the planning of hazing incidents and failing to report in writing his/her knowledge to the Dean of Students or other appropriate official of the institution.

Failing to report hazing is a Class B misdemeanor, as is hazing that does not result in serious bodily injury. Hazing that results in serious bodily injury is a Class A misdemeanor. Hazing resulting in death is a state jail felony. An organization found guilty of hazing may be fined $5,000 to $10,000 or, for an incident causing personal injury or property damage, an amount double the loss or expenses incurred because of the hazing incident.

It is not a defense to prosecution that the person hazed consented to the hazing activity.

Any person reporting a specific hazing incident to the Dean of Students or other appropriate institutional official is immune from civil and criminal liability unless the report is in bad faith or malicious.

This state law does not limit or affect an educational institution’s right to enforce its own penalties against hazing.

E. Student Travel Rule

1. Overview

Texas A&M University–Corpus Christi is supportive of student travel and recognizes that the safety of its students is of the utmost importance. The requirements outlined below apply to student travel that is more than 25 miles from campus to an activity that is organized, sponsored and/or funded by the University or by an organization properly registered at the University. Students traveling on behalf of the University must obtain prior approval from the appropriate department. This rule applies to travel by car, truck,
van, bus and airplane. It must be read in conjunction with University Procedure 13.04.99.C1.01, Student Travel Procedures.

2. Travel Safety Guidelines

During travel situations specified above, students must abide by the following safety guidelines.

1. Drivers and passengers must abide by all federal and state laws. In accordance with State law, drivers and passengers must use seat belts or other available safety restraints.
2. Drivers must possess a valid driver’s license that is appropriate for the classification of vehicle being driven.
3. Drivers, occupants, and their luggage should not exceed the vehicle manufacturer’s recommended capacity.
4. Operator fatigue should be considered when selecting drivers. On lengthy trips, alternate drivers should be used to avoid fatigue.

3. Vehicle Options

Listed below are the basic means of travel available to students:

1. Rental Vehicles: Students traveling using a rental vehicle must comply and abide with all University and rental provider rules, regulations, and stipulations.
2. Vans: Fifteen (15) passenger vans may be used; however, only nine occupants, including the driver, may ride in the van. Nothing may be loaded on top of the van, and all cargo should be loaded evenly. Cargo limit must meet safety requirements. It is preferred that a University employee drive the van.
3. Personal Vehicles: The driver must have adequate motor vehicle insurance and the vehicle must meet all state safety and registration requirements.
4. Commercial Carrier (airplane, bus, train, etc.) Students traveling by commercial transportation must comply with all rules specific to the carrier. This includes laws and regulations regarding carry-on luggage and weight restrictions.

4. Additional Standards

This rule is considered to be a minimum standard. Departments, units, and/or student organizations may mandate additional standards as deemed necessary to address the unique requirements associated with a particular type of student travel.