

CATALOG NUMBER
GRADUATE COURSES
ANNOUNCEMENTS FOR SESSION 2009-2011

Accreditations, Certifications and Approved Programs

Southern Association of Colleges and Schools
Texas A&M University-Kingsville is accredited by the
Commission on Colleges of the
Southern Association of Colleges and Schools
(1866 Southern Lane, Decatur, Georgia 30033-4097: Telephone number
404-679-4501) to award bachelor's, master's and doctoral degrees

Department of Human Sciences' Didactic Program in Dietetics and Dietetic Internship
by the Commission on Accreditation for Dietetics Education of the American Dietetic Association
(216 W. Jackson Blvd., Chicago, IL 60606-6995, 312/899-5400)

Chemistry Program by the American Chemical Society (certified program)

Graduate Program in Communication Sciences and Disorders accredited by the Council on
Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-
Language-Hearing Association

Department of Music by National Association of Schools of Music

Program in Social Work by the
Commission on Accreditation of the Council on Social Work Education

College of Business Administration by Association of Collegiate Business Schools and Programs

Teacher/Educator Certification Accredited by the Texas State Board of Educator Certification

Undergraduate Programs in Chemical, Civil, Electrical and Mechanical Engineering by the
Accreditation Board for Engineering and Technology (ABET)

Undergraduate Program in Industrial Technology
by the National Association of Industrial Technology (NAIT)

Kingsville, Texas 78363-8202
361-593-2111
A Member of The Texas A&M University System

Memberships:

AACTE Leadership Institute for Department Chairs	Conference of Southern Graduate Schools
American Association of Colleges for Teacher Education	Council for Opportunity in Education
American Association of Family and Consumer Sciences	Council for Undergraduate Research
American Association of Hispanics in Higher Education	Council of Higher Education Accreditation
American Association of State Colleges and Universities	Council of Public University Presidents
American Association of University Women	Hispanic Association of Colleges and Universities
American College Personnel Association	International Association of University Presidents
American Council on Education	National Association for Bilingual Education
American Library Association	National Association of Schools of Music
American Society of Engineering Education	National Association of Student Financial Aid Administration
Association for the Advancement of Collegiate Schools of Business	National Collegiate Athletic Association
Association for Computing Machinery	National Intramural Recreational Sport Association
Association of Institutional Research	Texas Association Chicanos in Higher Education
Association of Texas Colleges and Universities	The College Board
Association of Texas Graduate Schools	

GENERAL INFORMATION

Purpose of the Catalog

This catalog is the official bulletin of Texas A&M University-Kingsville for the years 2009-2011, in which are published the record of the year closing, the announcements for the coming year and the official regulations which will be in effect during the coming year. Fees and policies (except standards and requirements for degrees) are, however, subject to change. This catalog may be viewed via the Internet at <http://www.tamuk.edu/academics/catalog/>.

The courses of instruction announced herein are those that are available for offering during the sessions of 2009-2011. Courses to be offered during any one semester or summer term are announced in the *Blue and Gold Connection (Web for Students/Faculty)* prior to registration for a particular semester or term. To meet evolving needs, the university does reserve the right to make changes in courses and to offer only those for which a sufficient number of students register.

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

Student Responsibility

Each student is responsible for knowing the academic regulations in the **Catalog**. Unfamiliarity with these regulations does not constitute a valid reason for failure to fulfill them.

Equal Opportunity Policy

In compliance with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and Executive Order 11246, Texas A&M University-Kingsville is open to all persons regardless of race, color, religion, sex, national origin, age or disability who are otherwise eligible for admission as students. A&M-Kingsville does not discriminate on the basis of disability in admission or access to its programs.

A&M-Kingsville is an Equal Opportunity/Affirmative Action Employer, and no applicant or employee will be discriminated against because of race, color, age, religion, sex, national origin or disability in any personnel action. This university will not enter knowingly into contractual agreements for services or supplies with any firm failing to follow fair employment practices.

Family Educational Rights and Privacy Act of 1974 and Amendments Thereto

This act is designated to protect the privacy of education records, to establish the right of students to inspect and review their education records and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students have the right to file complaints with the Family Educational Rights and Privacy Act Office (FERPA) concerning alleged failures by the institution to comply with the act.

Texas A&M University-Kingsville accords all rights under the law to all students. No one outside the institution shall have access to nor will the institution disclose any information, other than directory information, from a student's education records without the written consent of the student, except to personnel within the institution, to officials of other institutions in which the student seeks to enroll, to persons or organizations providing student financial aid, to accrediting agencies carrying out their accreditation function, to persons in compliance with judicial order and to persons in an emergency in order to protect the health or safety of students or other persons. All these exceptions are permitted under the Act.

In compliance with the Family Educational Rights and Privacy Act of 1974, information classified as "Directory Information" may be released to the general public without the consent of the student. The following is designated as directory information:

Student's name, a local and home address, telephone number, major or minor, current class schedule, status (full or part-time registration), classification, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received and all previous educational agencies or institutions attended.

Students reserve the right to suppress any information from being released without his or her consent. Any student wishing to withhold any or all of this information should notify the Office of the Registrar. The university assumes that failure on the part of any student to specifically request the withholding of directory information indicates individual approval for disclosure.

Standards of Campus Conduct

Members of the university community assume full responsibility for compliance with Texas laws and for proper self-conduct. In addition to behaving according to the ordinary conventions of adult society, members of the university community are bound by university rules and regulations conducive to creating a positive campus atmosphere and general academic well-being.

The code for student conduct is set forth in the *Student Handbook*. Specific attention is given there to rules addressing academic misconduct, hazing, sexual harassment and substance abuse, including alcohol abuse and the illicit use of drugs. Grievance procedures and guidelines for sanctions are outlined.

Standards of conduct for university employees are detailed in the Texas A&M University *System Policies*. The Texas A&M University-Kingsville *Faculty Handbook* sets forth rules and regulations governing academic freedom and responsibility, sexual harassment, substance abuse, conflict of interests, research policies and other professional issues. Grievance procedures are set forth there.

In order to create a healthy and pleasant atmosphere, a campus-wide smoking policy designates only certain areas for smoking.

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.

Both failing to report hazing and hazing that does not result in serious bodily injury are Class B misdemeanors. Hazing that results in serious bodily injury is a Class A misdemeanor. Hazing resulting in a death is a state jail felony. An organization found guilty of hazing may be fined \$5,000 to \$10,000 or, for incidents causing personal injury or property damage, an amount double the loss or expenses incurred due to 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 the right of an educational institution's right to enforce its own penalties against hazing.

The Education Code defines hazing as “any intentional, knowing, or reckless act occurring on or off the campus of an educational institution, by one person 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.

Student Right-to-Know and Campus Security Act, Public Law 101-542 and Amendments Thereto

This act is designed to provide prospective or entering students with information concerning (a) campus security policies and procedures, security services available, campus crime statistics and alcohol and drug use policies; (b) completion or graduation rate of full time certification-seeking or degree-seeking undergraduate students; and (c) graduation rate of student athletes who receive athletic scholarships. This information is contained in an annual report available in the library.

University Assessment

Students enrolled at Texas A&M University-Kingsville are required to participate in university assessment activities for the evaluation and improvement of university programs and curricula.

Supplementary University Publications

Student Handbook (published by the Student Affairs Office)

Faculty Handbook (published by the Academic Affairs Office)

Faculty-Staff Directory (published by the Publications Office)

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ACADEMIC CALENDAR

Academic Year 2009-2010

Dates and Times Subject to Change. Official Calendar and Registration information appears online at <http://emscalendar.tamuk.edu/>.

Fall Semester 2009

Aug. 3	5 p.m.	<u>Graduate and Undergraduate Students</u> - Deadline to file Application for Degree Candidacy in December 2009 with Academic College Dean.
Aug. 3		Tuition emergency loans start.
Aug. 13		Payment Deadline. A \$35 Late Payment Fee will be assessed for registering and/or paying after this date.
Aug. 13		Book emergency loans start.
Aug. 17		General Faculty/Staff Meeting, Jones Auditorium.
Aug. 17-18		Meetings of deans with departmental chairs.
Aug. 17-18		Departmental meetings.
Aug. 18	9 a.m.	Residence hall check in.
Aug. 18-21		Welcome Week.
Aug. 20		First class meetings of all regular students.
Aug. 22		First class meetings of all Saturday students.
Aug. 27	1 p.m.	Freshman Convocation
Aug. 27-Sept. 4		Permission from the adviser, professor, chair and dean to register or change classes.
Sept. 4	5 p.m.	Deadline for students applying for graduation to complete the Change of Name Request form with the Office of the Registrar.
Sept. 4	5 p.m.	NO REGISTRATION BEYOND THIS POINT. Twelfth Class Day. Census Date.
Sept. 7		Labor Day holiday.
Sept. 11	5 p.m.	Last day for students completing graduation requirements in December to file Application for Candidacy forms with the Office of the Provost and Vice President for Academic Affairs and to pay graduation fees.
Sept. 22		Five-week point.
Sept. 29	9 a.m.	Five-week grades due.
Oct. 1 - Nov 15		Period for students planning May 2010 or August 2010 graduation to apply for Application for Candidacy forms with deans of their colleges.

Oct. 29	5 p.m.	Last day to drop a course with an automatic Q.
Oct. 30		Title IV 60% of semester.
Oct. 30		Book and tuition emergency loans due.
Nov. 2		Registration for spring semester 2010 begins.
Nov. 26-27		Thanksgiving holidays.
Dec. 1	5 p.m.	<u>Graduate and Undergraduate Students</u> - Deadline to file Application for Degree Candidacy in May 2010 with Academic College Dean.
Dec. 7	5 p.m.	Last day to drop a course or withdraw from the university.
Dec. 7-10		Dead Week.
Dec. 9		Last class day.
Dec. 10		Study Day (no classes).
Dec. 11-12 and 14-17		Final examinations for fall semester.
Dec. 15	9 a.m.	Graduating students' grades due.
Dec. 18		Commencement.
Dec. 19	Noon	Residence halls close.
Dec. 21	9 a.m.	All grades due via the web at Blue and Gold Connection.

Spring Semester 2010

Dec. 1	5 p.m.	<u>Graduate and Undergraduate Students</u> - Deadline to file Application for Degree Candidacy in May 2010 with Academic College Dean.
Dec. 1		Tuition emergency loans start.
Jan. 13		Book emergency loans start.
Jan. 13		Payment Deadline. A \$35 Late Payment Fee will be assessed for registering and/or paying after this date.
Jan. 15	5 p.m.	Deadline for students applying for graduation to complete the Change of Name Request form with the Office of the Registrar.
Jan. 18		Martin Luther King, Jr. Day holiday.
Jan. 19		General Faculty/Staff Meeting, BES 100.
Jan. 19		Meetings of deans with departmental chairs.
Jan. 19		Departmental meetings.
Jan. 20	8 a.m.	First class meetings of all regular students.
Jan. 22	5 p.m.	Last day for students completing graduation requirements in May to file Application for Candidacy forms with the Office of the Provost and Vice President for Academic Affairs and to pay graduation fees.
Jan. 23	9 a.m.	First class meetings of all Saturday students.
Jan. 27-Feb 4		Permission from the adviser, professor, chair and dean to register or change classes.

Feb. 4	5 p.m.	NO REGISTRATION BEYOND THIS POINT. Twelfth Class Day. Census Date.
Feb. 24		Five-week point.
Feb. 26		Book and tuition emergency loans due.
Mar. 3	9 a.m.	Five-week grades due.
Mar. 15-21		Spring Break.
Mar. 22	8 a.m.	Classes resume.
Mar. 31		Last day to drop a course with an automatic Q.
Apr. 2		Good Friday holiday - Classes not in session.
Apr. 5		Registration for Summer Sessions 2010 and Fall Semester 2010 begins.
Apr. 6		Title IV 60% of semester.
May 3	5 p.m.	<u>Graduate and Undergraduate Students</u> - Deadline to file Application for Degree Candidacy in August 2010 with Academic College Dean.
May 10	5 p.m.	Last day to drop a course or withdraw from the university.
May 10-13		Dead Week.
May 12		Last class day.
May 13		Study Day (no classes).
May 14-15 and 17-20		Final examinations for spring semester.
May 18	9 a.m.	Graduating students' grades due.
May 21		Commencement.
May 24	9 a.m.	All grades due via the web at Blue and Gold Connection.

TEXAS A&M UNIVERSITY-KINGSVILLE

The Texas A&M University System

Michael D. McKinney, *Chancellor*

Board of Regents

Bill Jones, Austin, *Chairman*
Phil Adams, Bryan
Richard Box, D.D.S., Austin
Anthony Cullins, Student Regent, Dallas
Morris Foster, Houston
Lupe Fraga, Houston
Gene Stallings, Powderly
Ida Clement Steen, San Antonio
Jim Schwertner, Austin
James P. Wilson, Sugar Land

Texas A&M University-Kingsville University Administration

Steven H. Tallant

President

College Hall 201. MSC 101. Extension 3207.

G. Allen Rasmussen

Interim Provost and Vice President for Academic Affairs

College Hall 250. MSC 102. Extension 3108.

Jose Garcia

Interim Vice President for Finance and Administration

College Hall 206. MSC 144. Extension 2410.

J. Randy Hughes

Vice President for Institutional Advancement

College Hall 232. MSC 136. Extension 2800.

Manuel R. Lujan

Vice President for Enrollment Management

College Hall 221. MSC 227. Extension 4060.

Terisa Remelius

Vice President for Student Affairs

College Hall 220. MSC 103. Extension 3612.

Robert J. Diersing
Associate Provost for Information Technology and Chief Information Officer
College Hall 231. MSC 215. Extension 3964.

Thomas Fields
Interim Associate Vice President for Research and Graduate Studies
Cousins Hall 105. MSC 118. Extension 2808.

Duane Gardiner
Interim Associate Vice President for Academic Affairs
College Hall 250. MSC 102. Extension 3098.

Maria L. Gonzalez
Assistant Vice President for Student Affairs
Eckhardt Hall 225. MSC 181. Extension 2431.

Frank B. Ureno
Associate Vice President and Dean of Students
Memorial Student Union 306. MSC 122. Extension 3606.

Paula Hanson
Comptroller
College Hall 122A. MSC 104. Extension 2897.

David Standish
Executive Director of University Facilities
Support Services Building 103. MSC 111. Extension 3280.

Map

LOCATION

Texas A&M University-Kingsville serves an area comprising the citrus region of the Rio Grande Valley, extensive ranch and farm land, productive oil and gas regions and the expanding industrial area along the Gulf Coast.

Kingsville, the county seat of Kleberg County, is a city of approximately 26,000. It is situated 160 miles southeast of San Antonio, 220 miles south of Austin, 40 miles southwest of Corpus Christi and 120 miles north of Brownsville. The altitude is about 75 feet.

Buildings and Grounds

Texas A&M University-Kingsville has more than 1,600 acres of land located at 11 different sites. The main campus consists of more than 85 buildings with approximately 1.997 million square feet of floor space and occupies approximately 250 acres of land located in the northwest quadrant of the City of Kingsville. The University Farm is on 545 acres of land located about one-half mile north of the main campus. The university also operates the Citrus Center near Weslaco, Texas; a marine sciences ecology research area on Baffin Bay; and the Texas A&M University-Kingsville System Center in San Antonio, Texas.

HISTORY

Texas A&M University-Kingsville had its origin as a public institution in the teacher college movement that swept Texas in the early 1900s. Shortly after the institution's inception as South Texas State Teachers College in 1925, its role was expanded to embrace a wider array of programs typically authorized for comprehensive universities, including the graduate program that began in 1935. The historical expansion of the university's role was reflected in the change of its name to Texas College of Arts and Industries in 1929 and to Texas A&I University in 1967. The university became the nucleus of the University System of South Texas in 1972. In 1989, the university, along with other USST institutions, became a member of The Texas A&M University System. The System Board of Regents in 1993 voted to change the name of the university to Texas A&M University-Kingsville, effective September 1, 1993.

Texas A&M University-Kingsville System Center-San Antonio

On January 27, 2000, the Texas Higher Education Coordinating Board approved a proposal for the creation of the Texas A&M University-Kingsville System Center-San Antonio. The State Legislature asked The Texas A&M University System (TAMUS) to create the center. The System Center-San Antonio is in response to a clear and documented need among South San Antonio residents. The center and its programs are the result of research, surveys and other studies conducted by the TAMUS, Palo Alto College and the Alamo Community College District. The System Center brings junior- and senior-level course offerings and master's degree programs to South San Antonio. The first classes were offered in the fall 2000 semester. The Texas A&M-Kingsville System Center offered programs in business administration (accounting, computer information systems, finance, general business, international management, management, marketing, Master of Business Administration), education (interdisciplinary studies, kinesiology, master of education programs) and arts and sciences (criminology, psychology, sociology, biology,

communications, English, history, mathematics, political science). The center also offers the Bachelor of Applied Arts and Sciences (BAAS) program and a graduate –level Alternative Teacher Certification Program.

MISSION OF THE UNIVERSITY

The mission of Texas A&M University-Kingsville is to develop well-rounded leaders and critical thinkers who can solve problems in an increasingly complex, dynamic and global society. Located in South Texas, the university is a teaching, research and service institution that provides access to higher education in an ethnically and culturally diverse region of the nation. Texas A&M-Kingsville offers an extensive array of baccalaureate and master's degree programs, and selected doctoral and professional degrees in an academically challenging, learner-centered and caring environment where all employees contribute to student success.

UNIVERSITY HOUSING AND RESIDENCE LIFE AND DINING SERVICES

Thomas D. Martin, *Director of University Housing and Residence Life*
Lewis Hall. MSC 108. Extension 2300.

Applying for University Housing and Residence Life

In order to be assigned to a university residence hall, a student must (a) submit a Housing Reservation/Damage Deposit Application, (b) forward the application and a \$150 room reservation and damage deposit to the University Housing and Residence Life Office and (c) complete a Housing Agreement. Students are encouraged to read the agreement along with the terms and conditions carefully before signing and returning it to the university. When the agreement is signed and returned, it becomes a binding agreement between the student and the university for both fall and spring semesters while the student is enrolled at Texas A&M University-Kingsville.

Room Reservation and Damage Deposit

The \$150 room reservation and damage deposit is retained throughout the period of residence of the student as a guarantee against damage and unwarranted depreciation. The deposit will be returned to the student after termination of residence with the amount assessed for damages or any other university debt, if any, deducted from the \$150.

The deposit will be forfeited if the student (a) cancels the room reservation after the stated cancellation deadline for the semester or session for which it was made; (b) moves from the residence hall before the end of the semester; (c) does not check in by the last day of regular registration for the semester or session for which the reservation was made; or (d) does not officially check out of the residence hall upon termination of residency.

Cancellation Dates

A student whose plans change about attending A&M-Kingsville must notify the Residence Life Office in writing by the appropriate cancellation deadline. Failure to cancel a Housing reservation by the deadlines listed below will result in the automatic forfeiture of the \$150 deposit. Those who cancel prior to the deadline dates will receive a refund of \$100 from the \$150 deposit.

Fall Semester: August 1	Summer I: May 1
Spring Semester: December 1	Summer II: June 1

Written cancellation requests may be received in person, by mail or fax to the University Housing and Residence Life Office. Notification submitted to other departments other than the University Housing and Residence Life Office do not comply with this requirement. Cancellation requests will be reviewed under the terms and conditions of the housing agreement.

Students who apply for housing **after** the cancellation deadlines stated above and then wish to cancel their housing arrangements, will have their request reviewed based on the

student's special request. If the request for cancellation is approved, the Housing charges may be removed; however, the Housing Reservation/Damage Deposit may be forfeited.

Residence Halls

Rooms in each residence hall accommodate two students. Each hall has a laundry room, vending area, small kitchen and common lobby available for student use. Cable television (including HBO) service is available in each student room. Students eat their meals in the Tejas Room Cafeteria located in the Memorial Student Union. Housing rates are listed at the end of this section. Rules governing residence hall living and dining room conduct are set forth in the *Student Handbook* and *Residence Life Guidebook*. All residence halls are smoke-free.

James E. Turner-Carrie Lee Bishop Hall is a three-story, air-conditioned complex accommodating 368 women and 392 men. The complex is located on the west end of the campus. Men live in Turner Hall, and women live in Bishop Hall. Each side of the complex has its own study room, lounge, computer lab and television room. Central bathroom facilities are located on each floor. Turner Hall has a courtyard equipped with a barbecue pit, picnic table and basketball half court. Bishop Hall has two courtyards, one of which features a volleyball court. Room furnishings in both halls include pull-out beds, built-in desks and bookshelves. Also provided are two bulletin boards, two chairs, two chest-of-drawers, two closets, two Ethernet ports and one local phone line.

John F. Lynch Hall is a two-story, air-conditioned hall for 200 women. It is located across the street from the Memorial Student Union. The hall has a large lounge/TV area, computer lab and a study room. Room furnishings include two height adjustable twin beds with lofting capabilities, desks and bookshelves, two chairs, a chest-of-drawers, two closets, two Ethernet ports and one local phone line. Lynch Hall has a sundeck available for its residents. Its two-person, suite-style design provides students with the opportunity to share a bathroom with suite mates connected to the adjoining rooms.

J.C. Martin Jr. Hall (A Side) is a three-story, air-conditioned hall for 200 students. Room furnishings include two beds and a chest-of-drawers, a built-in desk and bookcase, two closets, two chairs, two Ethernet ports and one local phone line. Central bathroom facilities are located on each wing. The main lobby is shared with Martin Hall (B Side). A student must be 21 years of age or have 60 credit hours to be eligible to live in Martin Hall (A side). Martin Hall (A side) has a computer lab, workout room, study room and an outdoor courtyard which includes a sand volleyball court.

J. C. Martin Jr. Hall (B Side) is a three-story, air-conditioned residence hall for 204 men. Martin Hall is located across the parking lot from Turner-Bishop Hall on the west side of campus. The hall has a large lounge/TV area, a computer lab and a study room. Room furnishings include two beds and a chest of drawers, a built-in desk and bookcase, two closets, two chairs, two Ethernet ports and one local phone line. Central bathroom facilities are located on each wing. Martin Hall has an outdoor courtyard which includes a basketball half court.

Co-ed Residence Halls

Lewis Hall and Martin Hall (A Side) are co-ed residence halls with an optional meal plan. In order to reside in Martin Hall, a student must have 60 hours of acceptable credit with the university or be 21 years of age. In order to reside in Lewis Hall, a student must have 90 hours of acceptable credit with the university, be a graduate student or be 22 years of age.

Lorine Jones Lewis Hall is a three-story, air-conditioned hall for 90 students living in single rooms. Lewis Hall is designed on a suite plan with two rooms sharing a bathroom. Room furnishings include a desk area, a bed, a chest-of-drawers, a night stand, two chairs, two closets, two Ethernet ports and one local phone line. A student must be 22 years of age or have 90 credit hours to be eligible to live in Lewis Hall. Lewis Hall is a 24 hour quiet hall. The hall has a large lounge/TV area and a computer lab.

New Residence Hall

Our new residence hall is a four-story, air-conditioned hall with 600 beds, in two-and four-bedroom units. Students under 21 years of age or less than 60 hours will be required to have a meal plan. Room furnishings will include a large, twin size bed, chest of drawers, a desk and chair, and a closet. Each will have one or two bathrooms depending on your choice of unit. While bedrooms will be private, residents will share a common living area and kitchenette. In addition, cable television and Internet services, will be provided in each room and living room. Residents will also have access to a telephone line in the living room, wireless internet, study labs, a large lounge and meeting rooms. On-site mail boxes, and conveniently located administrative offices.

Meal Plans

With the exception of Lewis Hall, Martin Hall (A side) and Bishop Hall 1-South, all residence halls require the purchase of a meal plan in addition to housing. During the fall and spring semesters, the student may select from a variety of meal plans on the housing agreement. Any changes to the student's initial meal plan selection must be made within seven days after check-in. (This does not include the block plan, which cannot be changed.) Requests for changes to the meal plan are handled at the University Housing and Residence Life Office.

Payment must be made for both the room and the meal plan. No credit will be allowed for nights not spent in the hall or meals missed. Meal plans are not transferrable from one person to another. Students who purchase a meal plan will be issued meal privileges on their student ID card. It is the student's responsibility to promptly make arrangements to pay room and board fees in order to obtain and maintain meal privileges. Failure to obtain an ID card/meal privileges does not exempt the student from the obligation to pay the full amount for room and board fees due. The student will be charged a replacement fee for the loss of the ID card. Replacements are obtained at the ID Center located in the Memorial Student Union.

Housing Payment Procedures

Upon being assigned to a residence hall, the housing fees will be added to the student's account (which includes tuition and other student fees). It shall be the student's responsibility to make prompt arrangements for payment.

The student may pay the full amount due or arrange to pay under the university's deferred payment plan. The first payment is equal to half of the charges due plus a \$30 administrative fee and is due on or before the designated payment deadline. The remaining amount is due in two quarter payments. Students selecting the deferred payment plan must arrange for and sign the payment plan at the Business Office. Make sure that all classes and housing charges are included as only one plan is allowed. The following policies and procedures will apply:

- a. Students receiving university-sponsored financial aid are expected to pay all financial obligations owed the university at the time they receive the financial aid.
- b. The Business Office will send invoices to the student's billing address. Hall payments must be made on or before the due date, or a \$15 late fee will be assessed.
- c. If a scheduled payment becomes 10 days delinquent, notification will be forwarded to stop meals. **The student will still be responsible for paying for meals which have been stopped because of non-payment.** Students who have their meals stopped for non-payment are encouraged to meet with the business services manager, whose office is located in the Business Office at College Hall, to discuss payment arrangements.
- d. A "hold" will be placed on the student's records for delinquent payments. A student will not receive his/her grades, transcript or be allowed to register for future semesters until such hold is cleared. Non-payment will also result in loss of future housing privileges.
- e. Failure to pay account in full by the end of each contracted semester or session will result in the student's account being referred to the University Collection Department to begin collection procedures. If satisfactory payment arrangements are not made with the University Collection Department, the account will be sent to an outside collection agency. The student will then be responsible for paying additional collection agency fees of up to 33% of the unpaid balance.
- f. Refund of unused room and board fees due to early check-out will be paid in the following order when applicable: a) Financial Aid refund; b) outstanding university debts; c) remaining portion to the student.

Refunds

Students withdrawing or terminating from the university during a semester or term will receive a refund of housing fees prorated on a calendar basis up to the semester midpoint (and in accordance with financial aid guidelines where applicable). Students withdrawing or terminating from the residence hall after mid semester point will not be eligible to receive a housing and board refund. (Refer to housing agreement for further information.)

Miscellaneous Housing Information

- a. The university will make all residence hall, room assignments and reassignments as necessary. The university cannot guarantee assignment to a particular hall or a specific roommate. First preference is given to students who resided in the halls the previous long semester and contracted to return to the halls. New applicants are assigned on a space available basis, according to the date that the housing contract is received and provided that the student has been admitted to the university. Not placing a deposit or submitting incomplete application forms can also delay the assignment process.
- b. All students are initially assigned a roommate at the beginning of the semester. Should a student's roommate not check-in to the hall, that student will be requested to consolidate with another person.
- c. Specific roommate requests are accommodated as possible. Students with roommate preferences must mutually request each other on the housing agreement, request the same hall and include their prospective roommate's ID number. Both agreements must also be received by the June 1 priority deadline (for fall semester assignment). Not being admitted to the university, not placing a deposit or submitting incomplete forms can also delay assignment.
- d. Due to space limitations, private rooms cannot be reserved in advance. Private rooms are assigned from a waiting list after the 12th class day if space is available. There is an additional charge for a private room. The university does reserve the right to place two people in a room that has been assigned as a private room if space is needed. A refund will be made to the person who has paid for a private room (prorated from date the private room is relinquished).
- e. In signing a housing agreement, the student agrees to reside in that room for the time specified in the agreement. This agreement is personal and may not be transferred or assigned to another person. If the student fails to enroll at the university, advance notice of residence hall cancellation must be provided in writing. Under the terms of the housing agreement, moving from the residence hall without an authorized release from the agreement will not terminate the student's fiscal obligations.
- f. Residence halls and dining halls are closed between the fall and spring semesters and during university holidays. The residence hall calendar and the housing and food service contract show the specific times that the residence halls are open and when meals are served. During periods when classes are not in session, housing may be made available if the university determines there is sufficient demand. In such instances, additional rent may be required of each student desiring accommodations. The amount will be determined by the Residence Life Office, and students will be consolidated into one hall.

Residence Hall Association

Composed of student representatives from each residence hall, the association represents the entire residence hall population. Its purpose is to provide effective lines of communication among the house councils and with the Residence Life Office; to coordinate the programs, activities and government of the individual residence halls; to arbitrate any

disputes pertaining to house council operating procedures; and to recommend policies affecting all residence halls. Each residence hall has its own house council.

DINING SERVICES

Steven D. Kauf, *Food Service Director*

Memorial Student Union 213. MSC 124. Extension 3119.

Sodexo Food Service is the sole provider of food services on campus. The Tejas Room in the Memorial Student Union is an all you can eat for one price buffet and the servicing location for the multiple board plans available, including continuous meal service. It is open daily when school is in session. Additionally, there are retail operations including a Pizza HutExpress, a Sub Sandwich shop, the Starbucks Coffee Shop and a Freshens Yogurt and Ice Cream in the MSU. Most meal plans include specific dollar allocations for retail purchases as well as regular meals. You can also purchase bonus bucks – money put on your ID that can be used at any Sodexo location. Sodexo also operates a full-service catering operation that can handle everything from coffee service to full service dinner banquets to large wedding receptions and even special events off campus. There are many opportunities for student employment in food services.

SUMMARY OF HOUSING AND BOARD RATES

The university reserves the right to change housing fees on 30 days' notice.

Residence Halls

Fall and Spring Semesters

One Payment Plan

Deferred Payment Plan

1st payment due upon execution of note;

one half of fees plus \$30

2nd payment = one fourth of fees

3rd payment = one fourth of fees

Semi-Private Room and Board Rates (Fall or Spring) with Carte Blanche meal plan and \$75 credit line

<i>Men's Residence Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Martin Hall - A	\$2,565	\$1,313	\$642	\$642
Martin Hall – B	\$2,565	\$1,313	\$642	\$642
Turner Hall	\$2,565	\$1,313	\$642	\$642
<i>Women's Residence Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Bishop Hall	\$2,3565	\$1,313	\$642	\$642
Lynch Hall	\$2,700	\$1,380	\$675	\$675
<i>Co-ed Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Lewis Hall	\$2,950	\$1,505	\$738	\$738
New Hall – 2 Bedroom	\$3,805	\$1,933	\$951	\$951
New Hall – 4 Bedroom	\$3,630	\$1,845	\$908	\$908

**Semi-Private Room and Board Rates (Fall or Spring)
with 14 Meals per week plan and \$100 credit line**

<i>Men's Residence Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan*</i>		
Martin Hall - A	\$2,510	\$1,285	\$628	\$628
Martin Hall - B	\$2,510	\$1,285	\$628	\$628
Turner Hall	\$2,510	\$1,285	\$628	\$628
<i>Women's Residence Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Bishop Hall	\$2,510	\$1,285	\$628	\$628
Lynch Hall	\$2,645	\$1,353	\$661	\$661
<i>Co-ed Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Lewis Hall	\$2,895	\$1,489	\$724	\$724
New Hall – 2 Bedroom	\$3,750	\$1,905	\$938	\$938
New Hall – 4 Bedroom	\$3,575	\$1,818	\$894	\$894

**Semi-Private Room and Board Rates (Fall or Spring)
with 10 Meals per week plan and \$100 credit line**

<i>Men's Residence Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Martin Hall – A	\$2,410	\$1,235	\$603	\$603
Martin Hall – B	\$2,410	\$1,235	\$603	\$603
Turner Hall	\$2,410	\$1,235	\$603	\$603
<i>Women's Residence Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Bishop Hall	\$2,410	\$1,235	\$603	\$603
Lynch Hall	\$2,545	\$1,303	\$636	\$636

<i>Co-ed Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Lewis Hall	\$2,795	\$1,428	\$699	\$699
New Hall – 2 Bedroom	\$3,650	\$1,855	\$913	\$913
New Hall – 4 Bedroom	\$3,475	\$1,768	\$869	\$869

**Semi-Private Room and Board Rates (Fall or Spring)
with 10 Meal per week plan**

<i>Men's Residence Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Martin Hall – A	\$2,330	\$1,195	\$583	\$583
Martin Hall – B	\$2,330	\$1,195	\$583	\$583
Turner Hall	\$2,330	\$1,195	\$583	\$583
<i>Women's Residence Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Bishop Hall	\$2,330	\$1,195	\$583	\$583
Lynch Hall	\$2,465	\$1,263	\$616	\$616
<i>Co-ed Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Lewis Hall	\$2,715	\$1,388	\$679	\$679
New Hall – 2 Bedroom	\$3,570	\$1,815	\$893	\$893
New Hall – 4 Bedroom	\$3,395	\$1,728	\$849	\$849

**Room and Board Rates (Fall or Spring)
with 45 Meals Block Plan and \$50 Credit Line
(Must be 21 years or have 60 credit hours)**

<i>Men's Residence Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Martin Hall - A	\$1,810	\$935	\$453	\$453
Martin Hall - B	\$1,810	\$935	\$453	\$453
Turner Hall	\$1,810	\$935	\$453	\$453

<i>Women's Residence Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Bishop Hall	\$1,810	\$935	\$453	\$453
Lynch Hall	\$1,945	\$1,003	\$486	\$486
<i>Co-ed Halls</i>	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Lewis Hall	\$2,195	\$1,128	\$549	\$549
New Hall – 2 Bedroom	\$3,050	\$1,555	\$763	\$763
New Hall – 4 Bedroom	\$2,875	\$1,468	\$719	\$719

Residence Hall with Optional Meal Plan

	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Martin Hall - A side only (Men)	\$1,510	\$785	\$378	\$378
Bishop Hall – 1-S only (Women)	\$1,510	\$785	\$378	\$378
Lewis Hall - Coed	\$1,895	\$978	\$474	\$474

Additional Cost for Private Room

	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
All Halls <i>except Lewis, \$350 is included</i>	\$350	\$205	\$87.50	\$87.50

Board Only Plan

	<i>One Payment Plan</i>	<i>Deferred Payment Plan</i>		
Carte Blanche w/\$75	\$1,055	\$558	\$264	\$264
14 meals per week w/\$100	\$1,000	\$530	\$250	\$250
10 meals per week w/\$100	\$900	\$480	\$225	\$225
10 meals per week w/\$100	\$820	\$440	\$205	\$205
45 meal block plan w/\$50	\$300	\$180	\$75	\$75

EDUCATIONAL EXPENSES

Patricia C. Hayes, *Bursar*

College Hall 102. MSC 104. Extension 3818.

Estimated Nine-Month Budget

The following nine month budgets are offered as estimates of reasonable expected expenses. These estimates are based on a 10 credit hour course load and are subject to change.

Texas A&M University-Kingsville Budget for 2008-2009 (Texas Resident) Fall and Spring (award year/semester)

	On campus	Off Campus
Tuition & Fees	\$4,214/\$2,107	\$4,214/\$2,107
Books & Supplies	\$826/\$413	\$826/\$413
Room & Board	\$4,874/\$2,437	\$6,436/\$3,218
Transportation	\$1,758/\$879	\$2,188/\$1,094
Personal Expenses	\$2,510/\$1,255	\$2,510/\$1,255
Total	\$14,182/\$7,091	\$16,174/\$8,087

Texas A&M University-Kingsville Budget for 2008-2009 (Nonresident) Fall and Spring (award year/semester)

	On campus	Off Campus
Tuition & Fees	\$9,834/\$4,917	\$9,834/\$4,917
Books & Supplies	\$826/\$413	\$826/\$413
Room & Board	\$4,874/\$2,437	\$6,436/\$3,218
Transportation	\$1,758/\$879	\$2,188/\$1,094
Personal Expenses	\$2,510/\$1,255	\$2,510/\$1,255
Total	\$19,802/\$9,901	\$21,794/\$10,897

Married couples and single head of household may add additionally to their budgets for each dependent child. Child care allowance is added for each dependent child under age 12.

Financial Obligations

Students are expected to pay all financial obligations to the university when due. Failure to meet such obligations will result in a student's record being placed on a hold status and may result in the student not being able to take final examinations, receive official transcripts or enroll for another semester. Failure to make room and board payments on time may result in the loss of meal privileges and eviction from the university residence hall. In addition, the University has the right to forward any unpaid accounts to a collection agency. The student will be responsible for any attorney fees and/or any collection costs necessary for the collection of any amount not paid when due. In all cases, the student will be duly notified and given a reasonable length of time to clear the obligation before the enforcement of disciplinary action.

Students receiving university sponsored financial aid are expected to pay all financial obligations owed the university at the time they receive the financial aid. Students who are working on campus will have the opportunity to cash paychecks to pay financial obligations.

NOTE: Census day of the semester is the day that all tuition and mandatory fees must be paid in full. If all tuition and mandatory fees are not paid in full, a class or classes will be dropped for non-payment. The census day of the long semesters (fall and spring) is the 12th class day. The census day for the summer terms is the 4th class day. Census day is a drop day, if all tuition and mandatory fees are not paid in full.

Mandatory Tuition and Fees

Students who do not pay mandatory tuition and fees in full by established deadlines will be dropped from one or more classes, according to the unpaid balance due. Students who establish a valid payment plan by established deadlines will not be dropped.

Payment Plans

The following plans are available to assist students with the payment of tuition, fees, room and meals.

1. Deferred Payment of Tuition and Fees

Students selecting the deferred payment plan may pay tuition and fees in **three** payments. There is a \$30 administrative fee for choosing the deferred payment plan. Students who select a deferred payment plan are subject to the following provisions:

- a. Students receiving university sponsored financial aid equal to or greater than their tuition and fees **must** pay in one payment. All financial aid funds received after selection of deferred payment plan will be applied to account balance until paid in full.
- b. A late payment penalty of \$15 will be assessed for any deferred payment not made on or before the due date.
- c. 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 pay in full prior to the end of the semester may be denied credit for the work done that semester.

2. **Emergency Tuition Loan Plan (Tuition and Fees)**

The Emergency Tuition Loan Plan is a short-term loan offered by the University and must be paid back to the University within a given amount of time. This plan covers tuition and all mandatory fees. It is available to students who do not owe a prior balance on their student account and a fee of \$15 is charged to establish the plan. Financial aid funds received after selection of this plan will be applied to the account balance until paid in full. Any balance remaining after the due date is subject to 5% annual interest accrued monthly.

Charge Card Privilege

Students may pay tuition and fees, including room and board, with an American Express, MasterCard or Visa. Credit card payments may be made via TouchNet over the web, or by calling the Business Office.

Concurrent Enrollment at Other Public Institution of Higher Education

Students must present to the Registrar on the day they register evidence of previous enrollment for the same semester, number of hours enrolled and receipt showing the total tuition and other registration fees paid at another public institution in order to be eligible for provisions of Senate Bill 250 "Tuition Limit in Cases of Concurrent Enrollment."

Returned Item Policy

When a bank returns an unpaid item (i.e., check, credit card, money order) that has been submitted to the university, the following procedure will apply:

1. The Business Office will mail a notification by certified mail within 3 business days to the individual who submitted the returned item to the university. This notice will indicate the amount of the item, the \$25 returned item charge, and the reason the item was returned. The individual is given 10 days from receipt of notification to clear the returned item using cash, cashier's check or money order. Only payment in full will be accepted. The university will not accept a personal check or a credit card in payment for a returned item. In the event the certified mail is unaccepted and returned to the university, the university will attempt to deliver the notification to the student through one of his/her classes. The university will also attempt to reach the individual by phone. The individual will be given 10 days from this contact to clear the item.
2. A registration and transcript hold will be placed on the individual's record. After an individual has two or more items returned to the university, checks will no longer be cashed for that individual. If an individual stops payment on a check presented to the university, the university reserves the right to refuse acceptance of future checks for payment of university charges.
3. In those instances where a student fails to redeem a returned item and charge within the 10 day period, the university will initiate one or more of the following courses of action:
 - a. If the item was given in payment of tuition and fees or is in excess of \$100, the student may be withdrawn from all classes at the university. The Business Office will notify the Registrar's Office of the requested withdrawal. The

Registrar's Office will withdraw the student as of that date and notify the student, all instructors and any other offices that may need to take action (i.e. International, Student Services, Dean of Students). The student will receive a refund only if the withdrawal occurs prior to or during the percentage refund dates for the semester. Any refund resulting from the withdrawal will be held to be applied toward the returned item. If the student is withdrawn after midpoint of the session, the grade entered on his/her transcript will be at the discretion of each instructor.

- b. Returned items for less than \$100 may be referred to the Student Services Office for disciplinary action.
- c. In those instances where the returned check and charge have not been redeemed after two notification attempts, the university may take the check to the district attorney (or county attorney) and file a complaint with that office. Any further action on the matter will follow the legal process as prescribed by the respective attorney's office.

Resident vs. Nonresident Student Status

All students attending A&M-Kingsville who are nonresidents of Texas will be charged additional tuition in accordance with state law. The responsibility of registering under the proper residence is placed upon the student. If there is any possible question of the right to legal residence in Texas under state law and university rules, the student must raise the question with the Office of Admissions and have such question settled prior to registration. There can be no change of residence unless authorized by the Registrar. Students must pay the correct fee at the beginning of each semester or term for which they register. An attempt on the part of a nonresident to evade the nonresident fee may lead to expulsion from the university. Legal resident information forms to assist students in determining their proper legal status are available in the Registrar's Office or the Office of Admissions. Additional information concerning tuition rates can be found in Texas Education Chapter 54 Tuition and Fees.

Military Residence

Military persons stationed in Texas who wish to avail themselves or their dependents of military residence provisions of state law must submit during their first semester of enrollment in which they will be using the waiver program, a statement from an appropriately authorized officer in the service certifying that they (or a parent) will be assigned to duty in Texas on the census date of the term they plan to enroll, and that they are not in Texas only to attend training with Texas units. Such persons shall pay resident tuition so long as they reside continuously in Texas or remain continuously enrolled in the same degree or certificate program (enrollment in summer semester is not required to remain continuously enrolled).

RESIDENT FEES
 2008-2009 Texas Resident Fees
 Long Session (Fall or Spring)
Graduate

Hour	Tuition	Graduate Differential	Designated Tuition	Student Service	Athletic Fee	Computer Use Fee	Library Access Fee
1	120	18	80	13	15	14	7
2	120	36	160	26	30	28	14
3	150	54	240	39	45	42	21
4	200	72	320	52	60	56	28
5	250	90	400	65	75	70	35
6	300	108	480	78	90	84	42
7	350	126	560	91	105	98	49
8	400	144	640	104	120	112	56
9	450	162	720	117	135	126	63
10	500	180	800	130	150	140	70
11	550	198	880	143	165	154	77
12	600	216	1120	156	180	168	84
13	650	234	1120	169	195	182	91
14	700	252	1120	182	195	196	98
15	750	270	1120	195	195	210	105
16	800	288	1120	208	195	224	112
17	850	306	1120	221	195	238	119
18	900	324	1120	234	195	252	126
19	950	342	1120	247	195	266	133
20	1000	360	1120	250	195	280	140

ADDITIONAL FEES:

\$3 will be charged for International Education Fee

\$10 will be charged for Transcript Fee

\$49 will be charged for Hospital Fee

\$40 will be charged for Student Center Fee

\$10 will be charged for ID Fee

\$25 will be charged for Advising Fee

Add \$50 tuition, \$18 graduate differential, \$14 computer use fee and \$7 library access fee for each hour over 20. All other fees remain the same. **MINIMUM TUITION: \$120**

Non-refundable fees: late payment fee, drop fees and deferred payment plan processing fees.

3-Peat Fee: A \$100 per semester credit hour fee will be assessed after the 20th class day (15th for summer sessions) of the semester for attempting a class for the third and subsequent times.

The university reserves the right to change fees upon board approval.

NONRESIDENT FEES
2008-2009 Nonresident - U.S. and Foreign Fees
Long Session (Fall or Spring)
Graduate

Hour	Tuition	Graduate Differential	Designated Tuition	Student Service	Athletic Fee	Computer Use Fee	Library Access Fee
1	331	18	80	13	15	14	7
2	662	36	160	26	30	28	14
3	993	54	240	39	45	42	21
4	1324	72	320	52	60	56	28
5	1655	90	400	65	75	70	35
6	1986	108	480	78	90	84	42
7	2317	126	560	91	105	98	49
8	2648	144	640	104	120	112	56
9	2979	162	720	117	135	126	63
10	3310	180	800	130	150	140	70
11	3641	198	880	143	165	154	77
12	3972	216	1120	156	180	168	84
13	4303	234	1120	169	195	182	91
14	4634	252	1120	182	195	196	98
15	4965	270	1120	195	195	210	105
16	5296	288	1120	208	195	224	112
17	5627	306	1120	221	195	238	119
18	5958	324	1120	234	195	252	126
19	6289	342	1120	247	195	266	133
20	6620	360	1120	250	195	280	140

ADDITIONAL FEES:

\$3 will be charged for International Education Fee

\$10 will be charged for Transcript Fee

\$49 will be charged for Hospital Fee

\$40 will be charged for Student Center Fee

\$10 will be charged for ID Fee

\$25 will be charged for Advising Fee

Add \$331 tuition, \$18 graduate differential, \$10 computer use fee and \$7 library access fee for each hour over 20. All other fees remain the same. **MINIMUM TUITION: \$331**

Non-refundable fees: late payment fee, drop fees and deferred payment plan processing fees.

3-Peat Fee: A \$100 per semester credit hour fee will be assessed after the 20th class day (15th for summer sessions) of the semester for attempting a class for the third and subsequent times.

The university reserves the right to change fees upon board approval.

MANDATORY FEES *(All fees are payable at registration.)****Student Service Fee***

A service fee of \$13 per semester credit hour is charged to all students attending the university. This fee is used to support student activities such as the Student Government Association, student musical organizations, *The South Texan*, the New Student Orientation and numerous other student activities

Athletic Fee

An athletic fee of \$15 per semester credit hour is charged to all students attending the university. Students paying \$195 (13 or more semester hours) are entitled to free admission to all varsity and recreational sports, athletic contests and other special activities.

Computer Use Fee

A fee charged at \$14 per semester credit hour used to purchase computers to maintain student labs on campus and to create new facilities for students.

Library Access Fee

This fee is charged at \$7 per semester credit hour used to fund the electronic network and the maintenance of the library.

International Education Fee

This fee is charged at a flat rate of \$3 per semester. Funds are used to support cultural diversity within the student body and to enhance student knowledge of other countries through international study and scholarships.

Transcript Fee

This fee is charged at a flat rate of \$10 per semester. Funds are used to pay the cost of printing transcripts upon request for current and former students as well as to enhance our ability to serve our students' needs through the electronic transcript process.

Hospital Fee

A flat fee charged at the rate of \$49 per semester. Funds are used to support the Student Health Center, supplies and all operational needs of that center.

Student Center Fee

A flat fee charged at the rate of \$40 per semester. Funds are used to support special activities for the students. In addition, a portion has been used for the renovation of the Memorial Student Union.

ID Card Fee

This is a flat fee that is charged at \$10 per semester. Funds will be used to support the new student IDs and the cost of operation.

MISCELLANEOUS FEES

General Property Deposit

Each student must pay a one time charge of \$10 to ensure the institution against losses, damages and breakage in libraries and laboratories. It is refundable upon request after the student graduates or withdraws, less any loss, damage or breakage caused by the student.

Laboratory Fee

For each laboratory course a fee of \$2 to \$36 is charged depending upon cost of materials used in the course.

Kinesiology Fee

For each kinesiology service course, EDKN 1102 through EDKN 1249, the student will be charged a special fee of \$4 for towel service. In specified courses, an additional fee may be charged.

Applied Music Fees

For personal lessons on keyboard, wind, string or percussion instrument or voice lessons, a fee of \$75 per semester credit hour is charged.

Music Fees

Instrument Rental Fee.....\$3 per semester
Marching Band members for three uniform cleanings\$10 per semester

Visitor's Fee

The fee for visiting a course for a person other than a full-time student is the same as that required for registration for credit. A full-time student pays no additional fee for visiting a course.

Automobile Registration Fee

All persons who operate a vehicle on university property, regularly or occasionally, are required to register those vehicles with the University Police Department and to obtain a parking permit for a designated area or areas. All student vehicles operated on the university campus must be registered within one week after classes begin. No refunds will be issued after one week from the date classes begin. Detailed information on parking and traffic regulations, penalties for failing to register a vehicle and other traffic and parking violations, methods of obtaining refunds, procedures to follow when changing automobiles, location where vehicle may be parked and a specific breakdown of fees to be paid will be available at the time of registration.

Other Fees

Late Payment Fee\$35
Bachelor's Graduation Fee.....\$35
Undergraduate (domestic) Application Fee\$15
Graduate (domestic) Application Fee.....\$35
International Application Fee\$50
Master's Graduation Fee, Plan One (pending Board approval)\$121
Master's Graduation Fee, Plan Two and Plan Three\$43
Doctor's Graduation Fee (pending Board approval)\$194
R.O.T.C. Special Service Fee, Per Semester\$5
Thesis-Binding Fee for extra copy\$9

Fines and Breakage Loss

Students must pay all fines before they can receive a transcript of their credits or can register in the university.

Students registered for courses in chemistry will be notified at the end of a semester of breakage or loss of equipment and will be required to pay the amount due at the Business Office.

Students are expected to exercise reasonable care of university property; an assessment will be made for any deliberate misuse.

REFUND OF FEES

The Higher Education Amendments of 1998 (HEA98) represent a major shift in the return of Title IV Federal Financial Aid when a student withdraws from the university. The policy governs all federal grant and loan programs (Pell, SEOG, Stafford Loans, Perkins and PLUS loans), but does not include the Federal Work-Study program.

In general, the law assumes that a student “earns” **approved (verified)** federal financial aid awards in proportion to the number of days in the term prior to the student’s complete withdrawal. If a student completely withdraws from school during a term, the school must calculate, according to a specific formula, the portion of the total scheduled financial assistance that the student has earned and is therefore entitled to retain, until the time that the student withdrew. If a student receives (or the university receives on the student’s behalf) more assistance than he/she earns, the unearned funds must be returned to the Department of Education or to the Federal Stafford or parent’s Federal PLUS loan lenders. If a student’s charges are less than the amount earned, and a refund is due, the student may be able to receive those additional funds. **Students who have not completed the verification process are ineligible to receive any financial aid.**

The portion of the federal grants and loans that the student is entitled to receive is calculated on a percentage basis by comparing the total number of days in the semester to the number of days that the student completed before he/she withdrew. The policy governs the earned and unearned portions of the student’s Federal Title IV Financial Aid only. It determines how much, if any, the student and/or the school may need to return. This policy does not affect the student’s charges. The university’s withdrawal policy will be used to determine the reduction, if any, in the student’s tuition and fee or room and board charges. **The student is responsible for paying any outstanding charges to the university.**

Withdrawal Policy

When a student withdraws from the university during the first twenty (20) days of classes during a long semester, six (6) days during a summer session and two (2) days during an intersession, the university will refund a portion of the tuition and fees charged to a student. The percentages refunded are as follows:

Fall/Spring

- a. prior to the first class day – 100%
- b. during the 1st, 2nd, 3rd, 4th and 5th class days – 80%
- c. during the 6th, 7th, 8th, 9th and 10th class days – 70%
- d. during the 11th, 12th, 13th, 14th and 15th class days – 50%
- e. during the 16th, 17th, 18th, 19th and 20th class days – 25%
- f. after the 20th class days – none

Intersession

- a. prior to the first class day – 100%
- b. during the 1st class day – 80%
- c. during the 2nd class day – 50%
- d. after the 2nd class day – none

Summer Session

- a. prior to the first class day – 100%
- b. during the 1st, 2nd and 3rd class day – 80%
- c. during the 4th, 5th and 6th class day – 50%
- d. after the 6th class day – none

The “first class day” is determined by the beginning of a semester, summer session or intersession. The “first class day” is not defined by individual courses. Please refer to the academic calendar for the first class day date.

The refund will be returned to the student only if the student **did not** receive financial aid assistance from either Title IV programs or state programs. In the cases where the student did receive assistance from these programs, the refund will be returned to the programs in the following order: Unsubsidized Loan, Subsidized Loan, Perkins Loan, PLUS Loan, Pell Grant, FSEOG Grant, TPEG Grant, RPEG Grant, NPEG Grant and Texas Grant.

The student’s official withdrawal date will be determined by the university as:

- a. the date the student began the university’s withdrawal process.
- b. the midpoint of the semester if the student withdraws without notifying the university.
- c. the student’s last day of attendance at an academically-related activity as documented by the university.

If it is determined that the university must return to the Title IV programs monies in excess of any tuition and fees or room and board, the student will be responsible for those monies.

Any grant funds that the student is required to return to the federal programs are considered an overpayment. The student must either repay the amount in full to the university within 45 days of notification of the overpayment or make satisfactory payment arrangements with the Department of Education Collections that the student owes an overpayment. At that point, until the student pays the amount in full to the Department of Education or makes repayment arrangements with the Department of Education, **the student will lose his/her eligibility to receive future federal financial aid at any institution.**

Federal Policy Regarding “Unofficial Withdrawals”

The Federal Regulations GEN 0403 provides guidance on the application of Return to Title IV aid requirements. This new guidance requires institutions to closely monitor the attendance of students who receive Title IV aid.

At the end of every semester, grade evaluations are completed to determine compliance with this new regulation. The Federal government assumes that students who do not receive a passing grade in any class attempted and/or receive incomplete grades have unofficially withdrawn from the institution. This assumption requires Texas A&M University-Kingsville to formally document the attendance of students who receive all “F’s” or “I’s” in classes attempted in that period.

If a student earns a passing grade in at least one course, the Return to Title IV policy is not applicable.

Upon Dropping a Course or Courses

A 100% refund difference of applicable tuition and fees collected will be made for courses from which students drop within the first 12 days of a semester or within the first four days of a summer term. There will be no refunds for courses dropped after the first 12 days of a semester or after the first four days of a summer term.

Refund Policies

The following policies are used for refunds:

- a. Refunds are mailed according to published schedules from the Business Office. All refunds will be mailed to the billing address provided by the student.
- b. Financial aid residual balances may now be directly deposited into an appropriate bank account. Direct deposit arrangements must be made in advance.
- c. Any financial obligations owed the university will be deducted from the refund before the balance is mailed to the student.
- d. A student who is required to withdraw because of failure in the work of a previous semester will receive a refund in accordance with the above schedule.
- e. Fees paid for correspondence and/or extension courses will not be refunded after the student receives the lesson outline in correspondence courses or after the first meeting of the extension center course.
- f. No refunds will be made on visitors' fees.

STUDENT FINANCIAL AID PROGRAMS

Ralph Perri, *Director, Office of Student Financial Aid Services*
Memorial Student Union 105. MSC 115. Extension 3911.

There are various forms of financial aid available to students who qualify. The objective of the Office of Student Financial Aid Services is to provide assistance through grants, scholarships, loans and college work-study to qualified students.

Applicant Eligibility

To be considered for financial aid, an applicant must:

- Be a citizen or permanent resident of the United States.
- Have completed the Free Application for Federal Student Aid (FAFSA) by the appropriate deadline.
- Be enrolled at least half-time (6 semester credit hours).
- Not be in default on a student loan.
- Not owe a refund on a federal grant.
- Demonstrate financial need.
- Not be enrolled in a seminary or in a program leading to ordination or licensed to preach for a religious sect or be a member of a religious order.
- Students must re-apply for financial assistance every year by completing the requirements stated above. The award does not continue automatically beyond the award period.
- Meet the requirements of the Satisfactory Academic Progress Policy.

Federal regulations require a student to be making satisfactory progress toward the completion of a degree or certification in order to be eligible to receive Title IV funds. The Office of Student Financial Aid Services applies this rule to ALL students applying for any aid. Students should review the Satisfactory Academic Progress Requirements.

Application Process

How to Apply

Students should apply for financial aid as soon as possible. Considerable amount of lead time needs to be considered when applying for financial aid.

Priority Deadlines

Fall/Spring – April 1

Spring – November 1

Summer – March 2

1. Apply for a student and parent **Federal PIN number online** at <http://www.pin.ed.gov/PINWebApp/pinindex.jsp>. This PIN will allow the student to access and sign the Free Application for Federal Student Aid (FAFSA).

2. Complete the **FAFSA online** at <http://www.fafsa.ed.gov/>. The form can be completed via the Internet; the processing center returns a Student Aid Report (SAR) to the student via e-mail in approximately 7-10 working days. It is imperative that this form be retained for future reference. TAMU-Kingsville's Office of Student Financial Aid Services will receive a copy of the SAR if designated as a school of choice by the student when completing the FAFSA. Texas A&M University-Kingsville's **Federal School Code is 003639**. By completing the FAFSA, a student may be considered for both federal and state financial aid. There are three primary types of financial aid – grants, loans and student employment.
3. The student will be notified via e-mail when the Student Aid Report (SAR) is ready for review and has been forwarded to TAMU-Kingsville. If the SAR has errors, it should be corrected online at <http://www.fafsa.ed.gov/> using the student's Federal PIN.
4. Students can monitor their application status online at the Blue and Gold Connection at <http://www.tamuk.edu/bluegold/>. The U.S. Department of Education may randomly select students for the verification process. If selected, the Office of Student Financial Aid Services will request specific documents to complete the students' financial aid application. Students will be notified of any additional documentation that may be required.
5. In order to be eligible for federal funding, a student **MUST** be a fully admitted, degree-seeking student. To apply for admission to Texas A&M-Kingsville, a potential student may contact the Office of Admissions, Texas A&M University-Kingsville, MSC 105, Kingsville, Texas 78363-8202, (361) 593-2315 or logon at <http://www.tamuk.edu/>.
6. Applications for scholarships can be obtained at the Javelina Online Scholarship Program at https://tamuk.scholarships.nelnet.net/CMXAdmin/Cmx_Content.aspx?cpId=239.
7. Students will be notified via e-mail when the financial aid award has been made. Students must accept or decline the awards. Once the application process is complete, the Office of Student Financial Aid Services will create an award package. Students should monitor their financial aid eligibility and awards on the Blue and Gold Connection at <http://www.tamuk.edu/bluegold/>. Information will be provided there regarding qualified aid. Grants and scholarships will be readily available, but loans may require additional paperwork. Work-Study may be awarded also, but it is the responsibility of the student to obtain a position within the university in order to receive the funds. Students should have other resources available should the financial assistance awarded not cover the total educational expenses.

Contact the Office of Student Financial Aid Services for additional information at:

Office of Student Financial Aid Services
700 University Boulevard, MSC 115
Kingsville, Texas 78363-8202
1-800-687-6000 or (361) 593-3911 or (361) 593-2875
financial.aid@tamuk.edu
Webpage: <http://www.tamuk.edu/finaid>

Contact the Department of Education at:
Federal Student Aid Information Center
1-800-4-fed-aid (1-800-433-3243)
9 a.m. to 8 p.m. (Eastern time)

Satisfactory Academic Progress Policy

Federal regulations require a student to be making satisfactory progress toward the completion of a degree or certification in order to be eligible to receive Title IV funds. The Office of Student Financial Aid Services at Texas A&M-Kingsville applies this rule to **ALL** students applying for any financial aid.

Academic Progress Standards

The various federal and state regulations governing student financial assistance programs require that an institution develop standards to measure students' reasonable progress toward a degree objective. Students who do not make reasonable progress, even if they are determined to be needy, will not be eligible for financial assistance. The following qualitative and quantitative standards must be met to remain eligible for and retain financial aid at the university.

Qualitative Measures of Academic Progress

The qualitative measure of academic progress is a grading scale of 0.00 to 4.00, based on the student's enrollment classification.

Doctoral and graduate students who have previously attended the university must maintain a cumulative grade point average of 3.0 to be eligible for financial assistance.

Quantitative Measures of Academic Progress

In addition to maintaining a minimum grade point average, students must demonstrate acceptable progress toward a degree or certificate objective in order to remain eligible for financial aid. Students cannot receive financial aid beyond a specified total of attempted credit hours, and they must pass a certain percentage of the credit hours for which they enroll. These requirements are summarized as total credit hours and ratio of passed hours to attempted hours stated below.

Hours passed do not include grades of **I** (incomplete), **U** (unsatisfactory), **Q** (withdrawal) or **QI** (withdrawal identifier for Senate Bill 1231). Courses that have been repeated will be counted for each enrollment as hours attempted and will be counted as hours passed if a grade other than **I**, **U**, **Q** or **QI** is received.

Graduate Students

Cumulative grade point average: 3.0

Ratio of passed hours to attempted hours: 67%

Total hours including transferred credit: 54 credit hours

Doctoral Students

Cumulative grade point average: 3.0

Ratio of passed hours to attempted hours: 67%

Total hours including transferred credit: 100 credit hours

Appeal Process

Students who are denied financial assistance may appeal the decision.

Appeal Procedure

If mitigating/extenuating circumstances exist, a student may initiate an appeal through the Office of Student Financial Aid Services. The appeal form may be obtained at the Office of Student Financial Aid Services, Memorial Student Union Room 106 or at the following website: <http://www.tamuk.edu/finaid/onlineforms.asp>. Copies of all supporting documentation should be attached to the appeal.

Failure to provide the required documentation will result in the denial of the student's appeal or a request for additional information. All information will become a part of the student's confidential financial aid record and cannot be returned.

The student will receive notification from the Office of Student Financial Aid Services in two to four weeks regarding the status of the appeal. Appeals submitted at the beginning of a semester may require additional time for review and response.

Approval of Appeal: If the appeal is approved, the student will be awarded on a probationary basis for one semester. Failure to demonstrate academic progress for the probationary term will result in the cancellation of all future financial aid. No future appeals will be accepted.

Denial of Appeal: If the appeal is denied, the student may appeal for future aid only after the student has completed a minimum of six hours at his/her own expense and the student has met the minimum standards of satisfactory academic progress for that semester.

Reinstatement of Eligibility

Students who have been denied financial aid on the basis of academic progress may appeal for reinstatement of eligibility when they attain satisfactory academic progress. If assistance is granted, the award will not be retroactive, but will be given for the remainder of the academic year. For example, at the conclusion of the fall semester, a student may receive an award for the spring semester.

Monitoring of Academic Progress

Academic progress is reviewed at the end of each academic term. Failure to maintain satisfactory progress will result in the denial or cancellation of all future aid.

The Office of Student Financial Aid Services may administratively grant one probationary semester of assistance for students whose academic progress has changed to “not in good standing” at the conclusion of their enrollment term at Texas A&M University-Kingsville.

Unofficial Withdrawal from the University

For any student receiving federal Title IV funds who unofficially withdraws or does not earn a passing grade, federal regulations require a refund. Such refunds must be calculated based on the 50% point within the semester or term. A student may demonstrate an official enrollment date later than the 50% date and in such cases the later date will be used in the calculation.

The calculation **may result in the student owing funds** to the University and/or the U.S. Department of Education. Also, any future financial aid funds will be cancelled.

Satisfactory Academic Progress Requirements for Students Enrolled in 5305, 5306, 6305, 6397, 6399, 6998 and 6999 Classes

To be considered for financial aid on a full-time basis, students enrolled in any of the aforementioned classes must notify the Office of Student Financial Aid Services.

Students who are placed on Financial Aid Suspension because of an IP will have to submit an appeal which will be evaluated by the Satisfactory Academic Progress Committee.

INSTITUTIONAL GRANTS

Resident Public Educational Incentive Grant (RPEG)

Students must meet the priority deadlines, complete a Free Application for Federal Student Aid (FAFSA) every year and demonstrate financial need. The minimum award for an academic year is \$1000 and the maximum award is \$2000 per semester.

Graduate Tuition Grant

The Graduate Tuition Grant is awarded to graduate students who meet the priority deadlines, complete a Free Application for Federal Student Aid (FAFSA) every year and demonstrate financial need. The minimum award an academic year is \$400 per semester and the maximum award is \$2000 per semester.

LOANS

Federal Stafford Loan

Federal Stafford Loans are a major form of self-help aid and are available through the Federal Family Educational Loan Program (FFELP). The payments on the Federal Stafford Loans must be started six months after a student graduates, leaves the university or drops below half-time enrollment. In order to receive a Stafford loan, a FAFSA must be completed yearly as part of the application process.

A student must be enrolled at least half-time (5 hrs) and demonstrate financial need as determined by the information on the FAFSA in order to receive a student loan.

There are two types of student loans: subsidized and unsubsidized. Subsidized loans are when the government pays the interest during the time in which the student is attending school. Unsubsidized loans are when the student is responsible for paying the interest for the duration of his or her college career. The student also has the option to have the interest capitalized or added on to the total amount of the loan.

The amount that a graduate student can borrow under the Stafford Loan Program is stated below:

Graduate and Professional Students	
Year	Max. (subsidized and unsubsidized)
For any year of study	\$20,500 – no more than \$8,500 of this amount may be subsidized
Graduate and professional students	\$138,500 – no more than \$65,500 of this amount may be subsidized

**As long as the student does not exceed his/her cost of attendance.

The total amount of debt that the student can have from all Stafford loans combined is \$138,500 as a graduate or professional student (no more than \$65,000 of this amount may be subsidized loans). The graduate debt limit includes any Stafford loan received as an undergraduate.

If the student is a first-time borrower at Texas A&M University-Kingsville, he/she will have to participate in a Pre-loan Counseling Session offered by the Office of Student Financial Aid Services. For more information on **Pre-loan Counseling Sessions** go to <http://mappingyourfuture.org/>.

The payments on the loans will start after the student has graduated, leaves school or has dropped below half-time. The student has a six-month grace period before he/she begin to repay the loans. When a student leaves school or drops below half-time, enrollment notification will be sent as to when repayment of loans are due to begin. However, the student is responsible for beginning repayments even if he/she does not receive this information. Also, if a student withdraws or falls below half-time enrollment, the student will need to attend Loan Exit Counseling. This can be done in two ways, the first is to watch an exit video or go online at <http://mappingyourfuture.org> to complete the exit counseling.

Upon leaving Texas A&M University-Kingsville, the student must attend an Exit Counseling Session provided by the Office of Student Financial Aid Services. For more information on **Exit Counseling Sessions** go to <http://mappingyourfuture.org>.

Perkins Loan Program

The Federal Perkins Loan Program provides funds for low-interest, long-term loans in order to help needy undergraduate, graduate and special students defray the cost of higher education. The program was established under the National Defense Education Act of 1958 and is funded by the federal government and the University.

Student Eligibility and Application

Students must meet the priority deadlines in order to be considered for this loan due to limited funding. Students desiring a Perkins Loan must meet all Federal Title IV eligibility requirements.

To be eligible for the Federal Perkins Loan, a student must be a citizen or permanent resident of the United States, enrolled and in good standing on at least a half-time basis and must have demonstrated exceptional financial need as determined by the Student Aid Report. In addition, the student must not owe a refund on any federal grant and must not be in default on a Stafford, Hinson & Hazelwood or a National Direct Student Loan at any institution. Students with the greatest financial need are given priority.

Student Reporting Requirements

A student must inform the university of any changes in his/her name or social security number, address or enrollment.

Aggregate Loan Limits

Graduate students are eligible to borrow \$8,000 for each year of graduate study. The total debt a student can have outstanding as a graduate student is \$60,000. (This includes any Perkins Loans a student has borrowed as an undergraduate.) In no case, however, may a student receive a loan in an amount which exceeds the demonstrated financial need.

Grace Period

Borrowers are entitled to a six-month grace period after ceasing to be at least a half-time student before the repayment period begins. New borrowers "grace period" is nine months (as of 1987-88).

Interest Rate

The Perkins Loan carries a simple interest rate of 5 percent which begins to accrue at the time of repayment.

Repayment

Monthly payments of not less than \$30 begin in the seventh month and the entire indebtedness must be repaid within ten years.

Deferments

A deferment may be filed after a student enters repayment status.

Pre-Loan Counseling

First-time borrowers are required to attend a pre-loan counseling session. The purpose of the pre-loan counseling session is to advise the student of his/her rights and responsibilities as a borrower.

Rights and Responsibilities of a Borrower

A borrower will be provided a copy of the promissory note and repayment schedule. The information will disclose the full amount of the loan, the interest rate and when repayment will begin. Also included is the following:

- Complete list of charges connected with making the loan (including whether those charges are deducted from the loan or whether the student must pay them separately).
- Yearly and total amounts that can be borrowed, and the maximum and minimum repayment periods.
- An updated statement of all the loans owed to the school; an estimate of what the total debt will be and what the monthly payments will be.
- An explanation of default and its consequences.
- An explanation of refinancing and consolidation options.
- A statement of deferment conditions and the conditions under which the Department of Defense will repay the loan.
- A reminder that the entire balance and interest can be repaid at any time, without penalty.

The loan must be repaid according to the repayment schedule. If the borrower cannot do this, he/she must notify the school immediately. The borrower must notify the University if he/she graduates, transfers to another school, drops below the half-time status, or if a change is made in name, address or social security number. The borrower must notify the University of anything that affects his/her ability to repay the loan or eligibility for deferment or cancellation. **NOTE: BEFORE THE BORROWER LEAVES THE UNIVERSITY, HE/SHE MUST ATTEND AN EXIT INTERVIEW.** Contact the Perkins Loan Clerk at (361) 593-3716.

Loan Cancellation

The program provides for cancellation of interest and indebtedness for full-time teachers in designated public or non-profit elementary or secondary schools, full-time teachers of handicapped children, full-time staff members employed in Head Start programs, members of the armed services in an area qualifying for special pay, as well as death and/or total and permanent disability.

Exit Interview

Any time a student graduates, transfers, drops below half-time, withdraws or does not enroll for one semester and fails to pre-register for the upcoming semester, he/she must attend an exit interview. Students can contact the Perkins Loan Clerk at the Business Office at (361) 593-3716.

Institutional Loan

TAMU-K Loan

In addition to long-term, government-sponsored loans, the Office of Student Financial Aid Services also administers a short-term loan known as an "Institutional Loan" for TAMU-K students in need of emergency aid.

Emergency Loan – is a temporary loan that must be paid to the university within a given amount of time. This type of loan is only given if the student has not received a disbursement check.

Book Emergency Loan – The amount ranges from \$50 to \$200. Two hundred dollars (\$200) is the maximum amount allowed. The Emergency Loan will be taken out of a student's disbursement check when it is received.

OTHER UNIVERSITY SUPPORT SYSTEMS

A university consists of more than classrooms. In addition to teaching, faculty are engaged in research, publication, professional growth and development activities, university service and advisement. Students grow through participation in the extracurricular activities the university sponsors. The following sections offer some indication of campus life at Texas A&M University-Kingsville. More detail can be found in the *Student Handbook* and the *Faculty Handbook*.

This survey omits a number of very important components of the university whose work, nevertheless, contributes to campus comfort and the smooth functioning of university operations including such divisions as accounting, bursar, development, facility management, human resources, payroll, physical plant, procurement and general services, among others.

CAMPUS GOVERNING BODIES

The Student Government Association is the highest governing body for students at Texas A&M University-Kingsville. It makes recommendations to the university administration for improving student life. The student government is composed of the executive, legislative and judicial branches. The student body elects the President, Vice-President and the Senators during a general student election held each spring. The Dean of Students or his/her designee advises the SGA.

The Faculty Senate, established by the Constitution of the General Faculty, is a body of 30 faculty members elected for three-year terms from the six undergraduate colleges and the library. The Faculty Senate is responsible for the overall educational policies of the university as well as noncurriculum matters that it feels the need to address. It is instrumental in creating the *Faculty Handbook*.

In 1990, the Staff Council was created to address the various specific concerns of five groups of personnel: secretarial-clerical, nonfaculty professional, technical, crafts and services. Consisting of 24 members elected for two-year terms, the council provides a means for this important group of campus employees to voice those concerns to the administration.

CO-CURRICULAR ACTIVITIES

Although the focus of the university is intellectual, it also fosters the broad mental, physical and spiritual well-being of the campus community. To this end, a variety of non-academic programs are offered to enhance student learning and personal development. For information about campus activities and leadership opportunities, contact the Office of Student Activities, (361) 593-2760.

Associate Vice President and Dean of Students

Frank B. Ureno, *Associate Vice President and Dean of Students*
Memorial Student Union 306. MSC 122. Extension 3606.

The Associate Vice President and Dean of Students (AVP/DOS) exercises broad responsibility for the student services of the university. The office is responsible for improving the quality of life for students and assisting them in attaining their educational goals; for promoting an environment which aids in the students' emotional, social, cultural and ethical development; and working with all academic colleges and departments as an advocate for students' rights. The Associate Vice President and Dean of Students assists the Vice President for Student Affairs in creating and implementing programs, services and activities which are consistent with the university's mission. The Associate Vice President and Dean of Students oversees the Memorial Student Union, Student Leadership Development, Student Activities, New Student Orientation, the Student Government Association, the ID Center, the Post Office, student discipline, shuttle service and specific retention programs. In addition, the office has a liaison relationship with Sodexo on Campus Food Services and Barnes and Noble Javelina Bookstore. The Associate Vice President and Dean of Students also has oversight of certain councils and committees that are charged with providing cultural and enrichment programs to the University community.

Memorial Student Union

Seferino Mendieta, *Director, Memorial Student Union and Student Activities*
Memorial Student Union 301. MSC 133. Extension 2769.

The Memorial Student Union (MSU) is the center of social life on the campus. It includes multiple dining areas, student lounges, the CueShack Game Room, two large ballrooms, meeting areas, ID Center and student related offices. The Memorial Student Union sponsors dances, games and tournaments, welcome and hospitality programs and campus food service. Recognized student organizations may schedule use of the facilities; there is no charge for normal use. Outside organizations must pay a fee. The Office of the Associate Vice President and Dean of Students is located in the Memorial Student Union, along with the Office of Student Activities, the Women's Center, Student Financial Aid Office, Barnes and Noble Javelina Bookstore, the Post Office, Student Government Association, Food Service and *The South Texan* student newspaper.

Student Activities

Seferino Mendieta, *Director, Memorial Student Union and Student Activities*
Memorial Student Union 301. MSC 133. Extension 2769.

The Department of Student Activities serves as the resource hub for all student organizations. Student Activities provides many services to the Texas A&M University-Kingsville student organizations, such as registering organizations, producing directories, providing advising services and helping student groups with operational assistance. The department provides many cultural, educational, recreational and social programs for the campus community. Some examples are Homecoming, Family Day, Fall Carnival, Spring Fling and the Mr. and Miss Texas A&M University-Kingsville Scholarship Pageants. In

addition to serving over 125 student organizations, Student Activities also provides a variety of specialized leadership programs such as the Women's Leadership Institute, Freshman Leadership Academy and the South Texas Leadership Institute. The department provides full-time support to Greek Life, Orientation Programs, the Javelina Mentor Program and the Campus Activities Board. The department also includes activities related to Recreational Sports and Community Services. Believing campus involvement is essential to student success, the Texas A&M-Kingsville Department of Student Activities completes a student's education.

Orientation Programs

Chaye S. Pena, *Assistant Director of Student Activities*
SUB 301. MSC 133. Extension 4064.

Hoggie Days pre-orientation and registration programs are offered throughout the summer and provide the first step for all newly admitted students on their way to becoming Texas A&M University-Kingsville community members. Participation in a Hoggie Days session is a requirement for all new, first-time students with less than 30 credit hours.

Javelina Welcome, the University's official welcome week, begins the first week of fall semester classes. During this program, students will move into their residence halls, attend study skill seminars and information sessions, as well as participate in several campus activities and traditions. Families are welcomed to attend; participation by new students is required at some events.

The South Texan

The South Texan, a weekly newspaper, offers a means to bring student concerns to the academic community, to ascertain and express student opinion, to train future professional journalists, to publish official announcements and policies and to provide the campus with a general interest newspaper from the student perspective. The editor is selected by the Student Publications/Media Committee, and must have taken basic journalism classes and have an overall grade point average of 2.5 or better. A paid staff, chosen by the editor with the advice and consent of the faculty adviser, is chiefly responsible for newspaper production. Volunteer help from throughout the student body is always welcome.

Recreational Sports

Charles Espinoza, *Director for Recreational Sports*
Steinke Physical Education Center, Room 8. MSC 198. Extension 3057.

Intramural Sports

A wide variety of individual, dual and team sports are offered each semester. Individuals are provided the opportunity to socialize, learn leadership skills, exercise and win the title of INTRAMURAL CHAMPION in each sport. Championship T-shirts are awarded in every sport. In a select number of sports, opportunities are available to compete at regional and national levels.

The Fitness Center

The Fitness Center is housed in the Steinke Physical Education Center (SPEC) and is available to all Texas A&M-Kingsville students, faculty and staff with a proper I.D. The fitness center has a wide range of exercise equipment (treadmills, stair climbers, elliptical trainers, stationary bikes, weight machines and a free weight area). The Fitness Center provides programs in the areas of fitness, training and aerobics.

Cheerleading

Team spirit is a vital part of any college atmosphere. The Texas A&M-Kingsville cheerleading program offers students the opportunity to get involved, learn leadership, develop athletic skills and promote team work. In support of the athletic department, the cheerleaders perform at all basketball and football games and attempt to cheer at other athletic events when possible. Tryouts for the cheer team are held in the spring semester in late March.

Informal Recreation

The Steinke Physical Education Center (SPEC) is home to Javelina basketball and volleyball. When not being utilized by classes and athletics, the center is available to all students, faculty and staff for recreational use. The SPEC offers the following recreational facilities: a multi-purpose gym (basketball, volleyball, etc.), racquetball courts, a swimming pool, bowling alley and the Fitness Center. Equipment is available for check out from the "cage."

Intercollegiate Athletics

Scott Gines, *Athletic Director*

McCulley Hall 105. MSC 202. Extension 2411.

Nationally ranked athletic teams for men and women are a tradition at the university. Athletic teams for women include volleyball, basketball, cross country, track and field and softball. Athletic teams for men include football, basketball, baseball, cross country and track and field. Each enrolled student may attend all scheduled home athletic events free of charge with a validated Student I.D.

UNIVERSITY SERVICES

The university provides a number of services for the university community. These are free or have minimal charges.

International Student Services

Mildred Slaughter, *Assistant Director*
Cousins Hall 226. MSC 176. Extension 3317

Specialized services for international students include new student orientation, assistance with matters dealing with the Department of Homeland Security, social security, health insurance, employment, academic and personal issues. The International Student Organization is coordinated through this office and provides an opportunity for social interaction, information and cultural exchange.

Immigration status as an approved student will be granted upon submission and review of the stated documents. An I-20 form will be issued from the International Student Services Office. International students applying for admission are reminded that possession of an I-20 form from this university does not relieve them of the responsibility to comply with United States immigration procedures.

International Student Health Insurance

All international students enrolled in any university in The Texas A&M University System are required to have an approved health (medical) insurance plan at all times. Coverage must be renewed before the premium expires and there should be no lapse in coverage. Students are required to purchase insurance coverage on a semester or annual basis.

International Student Orientation

New and transfer international students are required to participate in a special orientation session prior to registering for their first semester at Texas A&M-Kingsville. The mandatory orientation session is conducted by staff in the International Student Services office.

Life Services and Wellness (LSW)

Dianne Brown, PhD, LPC/LSW, *Director*
1210 Retama Drive. MSC 112. Extension 3991.
<http://www.tamuk.edu/sass/lifeservices>

Life Services and Wellness (LSW) serves the physical, emotional and distinct academic needs of Texas A&M-Kingsville students. Our mission is to raise students' awareness on physical, emotional, social, spiritual, intellectual and occupational dimensions to produce life changing results, and to provide a teaching and learning environment which helps students acquire lifelong learning skills and obtain educational success. LSW includes Counseling, Health Care Services, Disability Services for Students, Testing Services and a Wellness Program. All services and information provided to/from students is confidential and will not be released without written permission from the student. Office hours are Monday through Friday, 8:00 a.m. to 5:00 p.m., except on major holidays or during semester breaks.

Counseling

1210 Retama Drive. MSC 112. Extension 3991.

<http://www.tamuk.edu/sass/lifeservices>

Challenge, frustration, growth and change are all a part of the college experience. Professionally trained staff are readily available to students to provide counseling for personal, educational and life-decision concerns. All services, with the exception of selected specialized tests, are free. All testing and counseling sessions are confidential to the limits provided by the law, and no information can be released within or outside the university without the individual's consent. Services provided include individual counseling, career counseling, crisis intervention and consultation and outreach. Scheduled appointments are preferred; walk-ins are welcome.

Health Care Services

1210 Retama Drive. MSC 112. Extension 2904.

<http://www.tamuk.edu/sass/lifeservices>

Health Care Services provides quality medical care to students enrolled at Texas A&M-Kingsville while classes are in session. All registered students pay a health service fee that includes unlimited visits to see medical providers and to obtain medications at low costs. Additional lab services, minor surgical procedures and immunizations have a minimal fee. Students are responsible for any financial obligations stemming from referral to a private physician's office, lab tests, x-ray or hospital. The health service fee is not to be misconstrued as health insurance. A student health insurance applications or information about purchasing student health insurance is available at Life Services and Wellness. Any students in need of health care are encouraged to visit LSW. Health Care office hours are Monday through Friday from 8:30 a.m. to 4:30 p.m. Students needing health care services are recommended to schedule appointments, however, walk-ins are welcome. Prior to visit, students are required to present a valid ID before health care services can be provided. The clinic does not provide class absence excuses. It is the student's responsibility to convey information regarding illness to the professor. If the student's illness requires extensive absences, the student may request assistance from the Associate Vice President and Dean of Students to convey information to their professors.

All services provided are confidential. No information is released without the written permission of the student. After hours emergency care is available at Christus Spohn-Hospital Kleberg, 1300 General Cavazos Boulevard. Call 361-595-1661 or call emergency services at 361-595-9745. Fees, as well as transportation to these facilities, are the student's responsibility. In case of an extreme emergency students should call 911.

Disability Services for Students (DSS)

1210 Retama Drive. MSC 112. Extension 3024.

<http://www.tamuk.edu/sass/lifeservices>

Disability Services for Students assists in academic accommodations and provides auxiliary aids to registered students with disabling conditions, as defined by Section 504 and the

Americans Disabilities Act of 1990, who are otherwise qualified to meet the institution's academic requirements.

Section 504 of the Rehabilitation Act of 1973 refers to individuals who:

- have a physical or mental impairment which substantially limits one or more of a person's major life activities (visit website for more information on major life activities)
- have a record of such an impairment
- are regarded as having such an impairment

This also includes those disabilities, which are less obvious, such as psychological problems, learning disabilities and chronic health problems such as cancer, diabetes, cardiac problems, epilepsy and HIV/AIDS. Broken bones, recent surgeries and other s can be regarded as temporary disabilities. Students who meet these criteria could benefit from our services. Students who wish to request accommodations should register with the DSS office early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide appropriate documentation of their disability to the DSS coordinator.

In addition, DSS has a volunteer program. Students interested in volunteering as a note taker, reader or accessibility assistant to students with disabilities should contact the DSS office at 361-593-3024.

Testing Services

1210 Retama Drive. MSC 112. Extension 3303.

<http://www.tamuk.edu/sass/lifeservices>

The Texas A&M-Kingsville testing office provides comprehensive testing services for university students and prospective students. The Testing Office serves as a national testing center for such tests as the American College Test (ACT), College Level Examination Program (CLEP) Computer based exam, Law School Admissions Test (LSAT), Miller Analogies Test (MAT), Medical College Admission Test (MCAT), Secondary Level English Proficiency (SLEP), Pharmacy College Admission Test (PCAT), Professional Assessment for Beginning Teachers (PRAXIS Series), Nelson Denny and Texas Higher Education Assessment (THEA). General Education Development (GED) testing is also administered through this office. The Quick THEA and ACT Residual exam are administered to accommodate only the students who cannot register for the national test dates. For information on examination dates and other exams such as GRE, GMAT, TOEFL, SAT visit our website or call the Testing Services office at 361-593-3303.

Wellness Program

1210 Retama Drive. MSC 112. Extension 2382.

<http://www.tamuk.edu/sass/lifeservices>

The Wellness Program strives to provide increased awareness on education, prevention and intervention services involving alcohol, tobacco and other drug use and abuse while promoting positive decision-making and healthy lifestyles. The two components in the Wellness Program are *Don't Cancel Class* and the *Peer Educator Program* (PEP Talk). The *Don't Cancel Class* program is available to faculty requesting educational presentations

on academic enhancement, alcohol and other drug abuse and prevention, health issues, relationships, wellness and sexual health. The *Peer Educator Program* (PEP Talk) goal is to share, teach and empower peers to review their lifestyles and make responsible, healthier decisions. PEP Talk coordinates activities to increase awareness on health and safety issues. For more information on the Wellness Program contact Jo Elda Castillo-Alaniz (Coordinator) at 361-593-2382.

Women's Enrichment Program

1210 Retama Drive. MSC 112. Extension 3991.

<http://www.tamuk.edu/sass/lifeservices>The Women's Enrichment Program plays an important role in examining and defining the role and status of women in a variety of campus settings by providing and coordinating programs and resources. The program helps to assist with crisis intervention services and provides programs that educate and enhance awareness of women's issues on campus. Annual programs include Women's History Month, Sexual Assault Prevention, Breast Cancer Awareness and "Take Back the Night."

The Marc Cisneros Center for Young Children

Lisa A. Turcotte, *Director*

Marc Cisneros Center for Young Children. MSC 138. Extension 2219.

The center is the laboratory in which students observe and gain practical experience in working with young children and their parents. Several of the programs in the Department of Human Sciences require observation and/or participation at the center. Students from other disciplines, such as early childhood education, psychology, speech communications and kinesiology, are also provided opportunities to observe and interact with young children.

The Marc Cisneros Center for Young Children was established in 1941 and is located on the corner of University Boulevard and Santa Gertrudis Avenue. Occupying a new state-of-the-art building since June 2001, the Center is seeking reaccreditation from the National Association for the Education of Young Children. It meets the needs of 60 children aged three months through five years. Fenced playgrounds provide a large assortment of play structures and equipment, shade and sun areas and open play space. Developmentally appropriate learning centers are provided in each classroom to stimulate and encourage exploration and discovery. The philosophy that young children learn through creative play is evident in planned activities that enhance the children's emotional, social, physical and cognitive development.

A highly qualified, degreed staff works with the children. The school's close proximity to campus and its high quality program make it especially attractive to university students with children. Parents are encouraged to register their children early since a waiting list quickly forms as the fall semester nears. Parents are welcome to visit at any time.

Veterans Services

Norberto C. Trejo, *Veteran Affairs Coordinator*
College Hall 150. MSC 105. Extension 2812.

Courses at Texas A&M University-Kingsville are approved for veterans training and benefits. The Veteran Affairs Office, located in the Office of the Registrar, assists veterans with matters relating to their training programs.

Education and Training

The following programs are approved for students who wish to further their education: Chapter 30, Montgomery G.I. Bill-Active Duty, Chapter 1606, Montgomery G.I. Bill-Selected Reserve, Chapter 1607, Reserve Educational Assistance Program (REAP), Chapter 35, Dependents Educational Assistance (DEA), Chapter 33, The Post-911 Veterans Educational Assistance Act of 2008 and Chapter 31, Vocational Rehabilitation. General and detailed descriptions of each program are on-line at www.gibill.va.gov/GI_Bill_Info/benefits.htm.

The Post-911 GI-BILL is a new benefit providing educational assistance to individuals who served on active duty on or after September 11, 2001. These benefits are payable for training pursued on or after August 1, 2009. No payment can be made under this program for training before August 1, 2009.

Any student who feels he/she may be eligible for education benefits should complete an application at the Veteran Affairs Office. The completed application will be mailed to the Veterans Affairs Regional Office (VARO) in Muskogee, OK for review. The VARO will make the official decision to grant or deny benefits.

Students are encouraged to apply for GI-BILL/Hazlewood benefits as early as possible. Students receiving VA benefits will be required to comply with the university's deadlines for registering and paying for their courses.

New students entering the university (who intend to request benefits) must stop by the Veteran Affairs Office to complete an application and obtain needed information relative to their enrollment and certification. Students must provide all necessary documents (copy of their DD Form 214 (Member 4 copy) or Certificate of Eligibility, and a copy of their certified Degree Plan from the College he/she is seeking a degree) in order to process the request for their benefits. Incomplete applications will not be processed and will result in a delay of benefits.

Transfer students must provide the Veteran Affairs Office with copies of transcripts from all colleges attended and a copy of their certified Degree Plan.

Veterans should have military credit evaluated at the close of the first semester or upon the successful completion of 12 semester hours and furnish Veterans Affairs with a copy of their updated degree plan. Also, any transfer credit from prior educational institutions needs to be evaluated before the close of the first semester and a copy of an updated degree plan must be furnished to Veterans Affairs.

All active duty personnel receiving tuition assistance must process their paperwork through the Business Office.

Standards of Progress for Veterans

A student receiving full or part-time veteran's education benefits must maintain a cumulative 3.0 grade point average on courses taken. Students who wish to receive veteran's benefits and who transferred from another institution without the required 2.6 GPA must visit the VA coordinator in the Office of the Registrar before registering for classes to determine whether or not they are eligible for certification. The scholastic status of a student receiving veteran's benefits can be changed by attending summer school and meeting the same standards that apply in the long semester.

Veterans Semester Hour Classification

The VARO uses the semester hour classification scale below to determine a veteran's payment. The number of semester hours enrolled at this university will be reported to the VARO.

- 9 credit hours is full-time
- 6-8 credit hours is $\frac{3}{4}$ time
- 4-5 credit hours is less than $\frac{1}{2}$ time
- 1-3 credit hours is less than $\frac{1}{2}$ time, more than $\frac{1}{4}$ time

- 3 credit hours is full time during the Summer I and Sumer II session

Hazlewood Program

In order to qualify for tuition and partial fee exemption through the Texas Education Code 54.203 (known as the Hazlewood Act), a person must meet all program requirements. Contact the Veteran Affairs Office for eligibility requirements.

Career Services Center

Karen N. Engebrecht, *Director*
Eckhardt Hall 102. MSC 106. Extension 2217.

The mission of the Career Services Center is to provide assistance to students and alumni in career planning and securing employment, including developing, evaluating and effectively initiating and implementing career education and employment decisions and plans. The Career Services Center is designed to provide a diverse student population with a variety of information and assistance to achieve their professional goals. It is the aim of Career Services to provide a quality center that meets the needs of the students, alumni, employers, faculty and staff and to provide a superior level of service.

Students should register with Career Services in order to obtain assistance with their employment search. There are no charges for services. On-campus interviews, job-skills workshops, career fairs and "how-to" information are available through the center. The Cooperative Education/Internship Program provides students with an opportunity to gain work experience in their major field of study by alternating paid work periods with semesters of school. Summer internships are also available. The Off-Campus Part-time

Employment Program provides students with job opportunities in the local community while attending school. Students who have not yet chosen a major may contact the center for career guidance and counseling about various occupations. An interactive computer guidance program is available to help students with self-assessment and career exploration.

A resource room complete with current employment trends, job search guides and interactive videos is available for student use. For more information, visit the Career Services Center home page at www.tamuk.edu/csc.

University Facilities

David Standish, *Executive Director*

Support Services Building 103. MSC 111. Extension 3280.

University Facilities is responsible for the Engineering and Planning, Risk and Compliance, Physical Plant and University Police departments. It ensures regulatory compliance in university grounds, facilities, utilities, operations, safety and security. It coordinates facilities and infrastructure utilization, operations, planning and construction.

Engineering and Planning Office

Eligio DeLa Cruz, *University Engineer and Director*.

Support Services Building 108. MSC 111. Extension 3838.

Engineering design, analysis and project planning for construction-related changes or additions to the university's facilities are the responsibility of the University Engineering, Facilities Planning and Construction Office. This office also houses the blueprint master file, campus maps, construction documents and other records of university facilities. The principal objective goal of the office staff is to manage the renewal, upgrade and modernization of university facilities through construction project work. The University Engineer and Director of Engineering and Planning oversees the offices of the Utilities Engineer and Facilities Engineer.

Risk and Compliance Office

Deck Shaver, *Director*

Support Services Building 107. MSC 111. Extension 2237

This office ensures regulatory compliance for university Environmental Health and Safety planning, preparation, remediation, training and reporting, as well as for construction project planning, cost estimating, analysis, completion and closeouts. It maintains EHS and construction record files. The Director of Risk and Compliance oversees the offices of Environmental Health and Safety and Financial Planning.

University Police

Sandra Jefferson, *Chief*

Seale Hall. MSC 126. Extension 2611.

The University Police Department's primary purpose is to protect the security of the campus. This department controls traffic and parking, maintains a quiet and orderly atmosphere in which students can pursue an education without disturbances and

interference, provides information to visitors on the campus and assists in emergencies. The department consists of 15 state certified police officers, including the director, four state certified dispatchers, administrative assistant and a clerk.

All faculty, staff and students, full or part-time, who operate or expect to operate a vehicle on university property, regularly or occasionally, are required to register those vehicles with the University Police Department and obtain a parking permit assigning a designated area or areas for parking. Information regarding vehicle registration, parking zones, permit display, parking penalties or other information with respect to parking and traffic regulations may be found in the separate brochure available at the University Police Department. Due to constant changes in parking zones, an up-to-date campus parking map can be located at <http://osa.tamuk.edu/parking/map.pdf>.

Javelina Express Card

Memorial Student Union 110. MSC 122. Extension 2243.

<http://osa.tamuk.edu/javelinaexpress>

Texas A&M University-Kingsville requires an identification card (ID) for students, employees and dependents of students and employees. The Javelina Express card must be presented upon request. All ID cards are issued from the Javelina Express Card Office. The Javelina Express Card is your access to Texas A&M-Kingsville gaining cardholders access to various locations on campus. Students use the card to access their meal plans, residence halls, receive services from the Health Center, the Jernigan Library, Business Office, fitness center, swimming pool and to gain access to activities and athletic events on campus free of charge. Faculty/staff and guest/dependents can use their Javelina Express Card to gain access to the university swimming pool, fitness center and other approved secured locations on-campus.

Initial employee and student ID cards are free, with a replacement fee of \$10. Dependent IDs carry an initial charge of \$5 with a replacement cost of \$10.

Questions concerning the Javelina Express Card should be referred to the Javelina Express Card Center.

Check Cashing

The Business Office in College Hall will cash checks for students (up to \$50), faculty and staff with a valid I.D. card.

Mail Service

Mari Garcia, *Postal Supervisor*

MSC 100. Extension 2400.

The federal post office located in the Memorial Student Union provides complete postal service to all faculty, staff, students and general public. Services include selling stamps, money orders, self-stamped envelopes, renting post office boxes and mailing packages. Other services include express mail, priority, registered, certified, insured and delivery confirmation. Next to the federal post office is the campus post office, which is responsible for delivering and processing all departmental mail. Mail service is also provided to the

residence halls. Service window hours are 8:30 a.m. to 4 p.m. Monday through Friday. Lobby hours are from 7 a.m. to 7 p.m., seven days a week.

Barnes and Noble Javelina Bookstore

Mary Garza-Gutierrez, *Manager*

Memorial Student Union. MSC 127. Extension 2601.

The Barnes and Noble Javelina Bookstore provides the campus community with new and used textbooks, other required course material, trade and reference books, office supplies, academically priced software, imprinted gift items and academic regalia. We are more than just books. Simple, easy, convenient. Visit us at www.whywaitforbooks.com.

Public Relations

Vacant, *Director*

College Hall 130. MSC 114. Extension 3901.

The Office of Public Relations realizes the vision, advances the mission, practices the core values and achieves the goals of Texas A&M University-Kingsville by strengthening the university's image through proactive communications with internal and external audiences. To accomplish this mission, this office disseminates news of the university's programs and people to print and broadcast media, coordinates internal communications and assists in special event planning.

Marketing and Creative Services

Cheryl Cain, *Director*

College Hall 130. MSC 114. Extension 2014.

The Marketing and Creative Services office is responsible for the university's marketing materials, including major print and electronic publications for both internal and external audiences such as the viewbook, an annual report, a research magazine, commencement programs and the campus directory. The office places, produces and evaluates the effectiveness of university advertising and marketing materials. The office also creates specialty publications for university events, the President's Office and other campus units. In addition, Marketing and Creative Services staff produces the quarterly Javelina Alumni Association newsletter, the *Tusk*. The office has general oversight of the university's web site and oversees branding and graphic standards issues.

Special Programs

Mary L. Gonzalez, *Assistant Vice President for Student Affairs*

Eckhardt Hall 210. MSC 181. Extension 2129.

The purpose of the Department of Special Programs is to promote the completion of high school, the pursuit of college and the acquisition of higher education degrees for first generation and low income students. Special Programs has the unique concept of assisting first generation, low-income students in gaining opportunity to further their education. The Department of Special Programs supports Texas A&M-Kingsville's vision for a student-oriented university. The department is located in Eckhardt Hall, second floor. The following programs are housed within the area of special programs.

Student Support Services

The Student Support Services Program is an undergraduate program that provides academic support services, retention and financial aid assistance. The program provides opportunities for academic development, assists students with basic college requirements and services to motivate students toward the successful completion of their postsecondary education. The mission of Student Support Services (SSS) is to facilitate a climate supportive of academic success and personal enrichment through proactive and individualized services available to the student from their first semester through graduation. SSS students are challenged to take charge of their learning and develop skills that will enable them to enhance their lives and become well rounded citizens of the Texas A&M University-Kingsville community. The program fosters an institutional climate supportive of the success of low income, first generation or students with disabilities. Student Support Services helps to increase college retention, graduation rates, and as appropriate, facilitate participants' entrance into graduate and professional programs.

Ronald E. McNair Scholars Program

The mission of the Texas A&M University-Kingsville Ronald E. McNair Post-baccalaureate Scholars Program is to prepare and increase the number of juniors and seniors in the fields of math, sciences and engineering to pursue doctoral studies. The program is named after the late Dr. Ronald E. McNair and is one of 176 McNair programs sponsored by the U.S. Department of Education under a TRIO grant. This grant supports undergraduate students' scholarly activities throughout the academic year and the summer. McNair Scholars are a talented and unique group of students that, through their participation in the program, receive advising, academic skills enhancement opportunities, faculty mentorship, research experiences, counseling, tutoring and other scholarly activities in preparation for their enrollment in graduate school. Students who participate in the program come from disadvantaged backgrounds, show strong academic potential and are committed to pursuing a doctoral degree. The McNair program prepares selected sophomores, juniors and seniors aspiring to study at the graduate level through involvement in research. The McNair Scholars Program works closely with the College of Graduate Studies in increasing the number, quality and diversity of Master's and Ph.D. graduates across all disciplines by: identifying opportunities for talented students to pursue graduate education; fostering opportunities for fellowships and assistantships; and producing new faculty to help close the gaps in higher education in Texas. The goal is to increase the attainment of Ph.D. degrees by students from underrepresented segments of society.

The GRE Review Resource Center

The GRE Review Resource Center has prepared and obtained resources, such as software and test manuals, on admission tests to various graduate programs. The Center resources are available to students all day, five days a week, and weekends upon request. Each fall and spring semester the Resource Center hosts a Saturday workshop with materials provided by Kaplan. The Center represents a big step in the implementation of graduate resources on campus.

AUXILIARY ACADEMIC RESOURCES

Much of the learning and the research in a university occur outside organized classes. The following units of Texas A&M University-Kingsville support faculty and student educational and research pursuits.

Computing and Information Services

Val Ramirez, *Associate Director*

College Hall 240. MSC 185. Extension 5500.

The Office of Computing and Information Services (CIS) operates several hundred digital microcomputers and their associated peripheral equipment in College Hall, McNeil Engineering Laboratory, Business Administration Computer Laboratory and in the Jernigan Library Computer Laboratory. The combined resources of these computer complexes and those located in the Howe Agriculture Laboratory Building, Rhode Hall, Sam Fore Hall, New Engineering Complex and Eckhardt Hall provide the major information resources for the administrative staff, faculty and student research communities at Texas A&M University-Kingsville. The university's Trans-Texas Videoconference Network (TTVN) classrooms are located in the Jernigan Library, Rhode Hall, Hill Hall, Cousins Hall, New Engineering Complex and the Human Sciences Building providing distance learning opportunities. College Hall has two TTVN conference rooms available for administrative use.

The campus is supported by a 10/100Mb switched network with a fiber optic Gigabit backbone utilizing Cisco Systems technology and a 45Mbps connection to the Internet. Our Student Information Systems consist of one Sun Sunfire v880 midrange computer with 8 processors, 32 GB system memory and 250 GB of direct access storage, one Sun Sunfire v880 midrange computer with 8 processors, 32 GB system memory and 120 GB of direct access storage and Sun Sunfire v440 midrange computers with 4 processors, 8 GB system memory and 120 GB of direct access storage serving academic and administrative needs. Additionally, a SUN Enterprise 450 (E450) Server with 1GIG of primary memory and 54 GIG of direct access storage serves as the university's primary e-mail server. More than 3500 IBM compatible and Macintosh microcomputer systems are installed in various locations throughout the campus not including student dorms. Over 90% of these systems are linked to a local area network, giving the users access to microcomputer resources, as well as a variety of software, data sources, e-mail and the Internet.

Services provided by the computing complexes include administrative applications, some purchased from third parties, some developed in-house and all maintained in-house; language processors for academic instruction, statistical and simulation software for instruction and research and various packages accessed by all users as well as technical assistance to the university's computer users.

Office of Information Technology

Robert J. Diersing, *Chief Information Officer*
Associate Provost for Information Technology
College Hall 233A. MSC 215. Extension 4015.

The Office of Information Technology (OIT) serves to coordinate the procurement and application of information technology to serve the mission of the university and its administrative and academic units. The OIT oversees the Department of Computing and Information Services and the Office of Institutional Research.

Office of Institutional Research

Alan Tipton, *Director*
College Hall 233. MSC 215. Extension 2244.

The Office of Institutional Research supports institutional planning, policy formulation and decision making through the development and dissemination of accurate and timely data, reports and analysis. The office is committed to providing support and expertise for the evaluation and assessment activities throughout the university. The office is also responsible for ensuring the timely submission and accuracy of reports to external agencies including the Texas Higher Education Coordinating Board, Legislative Budget Board and The Texas A&M University System.

Office of International Studies and Programs

Tadeo Reyna, *Interim Director*
Cousins Hall 217/219. MSC 163. Extension 2906.

The Office of International Studies and Programs (OISP) works toward the internationalization of all aspects of Texas A&M University-Kingsville by involving students and faculty in international studies and research globally.

OISP consists of four interrelated areas: 1) International Studies Programs and Internships, 2) Student and Faculty Exchange Programs, 3) Collaborative International Research and 4) International Exchange Education Fund (IEEF) Scholarships.

International Studies Programs and Internships

In fulfillment of the University's Mission, Texas A&M-Kingsville encourages undergraduate and graduate students to spend a summer, a semester or, ideally, an academic year outside the United States. Students can earn credit toward their degrees through international studies. Faculty and community members may also participate. Options, with or without credit, are available for students and non-students in any degree or non-degree program.

Exchange Programs

Texas A&M-Kingsville has many exchange agreements with foreign institutions. Students may earn credit toward their degree programs while faculty can obtain experience that impacts their professional careers positively. International students and faculty also can come to A&M-Kingsville through an exchange program and study or teach here. Texas A&M-Kingsville currently has exchange agreements with foreign institutions in Mexico, Latin America, Europe and Asia.

Collaborative International Research

OISP will work with faculty, departments and colleges on identifying, developing and securing international research opportunities world-wide. This includes assisting faculty with Fulbright teaching and research awards and locations.

International Exchange Education Fund (IEEF) Scholarships

All Texas A&M University-Kingsville full-time students are welcome to apply for a scholarship to facilitate international studies. Scholarships can be used for tuition, fees and travel for an approved Texas A&M-Kingsville International Studies program outside the United States or for a degree-seeking international student here.

For additional information, contact the OISP at 361/593-2906 or 361/593-3994.

Office of Research and Sponsored Programs

Sandra Garcia, *Director*

Javelina House. MSC 201. Extension 3344.

The office assists faculty in securing external funds for research. It coordinates campus research activities, acts as a liaison for interdisciplinary research and community outreach programs, provides information on funding sources and proposal and budget development, as well as data on submissions and awards. All proposals for external funds are submitted through the Office of Research and Sponsored Programs.

John E. Conner Museum

Hal Ham, *Director*

Conner Museum. MSC 134. Extension 2849.

The museum, a department of Texas A&M University-Kingsville, is focused on the regional history and prehistory of South Texas and the natural history of the Tamaulipan Biotic Province. Its primary function is educational, with a general exhibit program in regional and in natural history and a gallery for special exhibits and programs.

Major permanent exhibits include Native American artifacts; South Texas history in graphics; weapons; household, farm and ranch items; and natural history dioramas. The museum also provides a range of programs for both children and adults as public service outreach for the university. In addition, the museum maintains a collection of historical and scientific artifacts as consistent with its mission.

JAMES C. JERNIGAN LIBRARY

Carol J. Tipton, *Library Director*
Library 101. MSC 197. Extension 3528.
<http://lib.tamuk.edu>

Professors

Ayala-Schueneman, Schueneman

Associate Professors

Allner, Packard

Assistant Professors

Boatright, Clasen

Visiting Assistant Professor

Camacho

Lecturer

Guzman

Professional Staff

Esteban Cantu, *Network Manager*

Christine Freeman, *Serials Librarian*

Sandra Rexroat, *Director, South Texas Archives and Special Collections*

Ronald Stigall, *Public Services Evening Librarian*

The James C. Jernigan Library's mission is to enable individuals to seek information and use it effectively to enrich their lives. The Library advances the University's mission of teaching, research and service by ensuring quality service to all patrons; teaching information skills that lead to academic success and life-long learning; building collections of distinction that support academic programs and providing leading technologies that enhance access to information resources.

The Jernigan Library website (<http://lib.tamuk.edu>) serves as the primary gateway to a wide selection of resources including OASIS, the on-line catalog of library holdings. The library holdings consist of books, periodicals and microforms numbering well over one million items. Additionally, the website links A&M-Kingsville students, faculty and staff to database subscription services, on-line journals, E-books, Government information and other useful websites.

Reference and Instruction Services provides individual assistance in identifying and locating pertinent resources, as well as group services such as library tours, basic library skills instruction, course-integrated instruction and special topics workshops. In addition to requesting assistance in person, library users may contact Reference and Instruction Services by telephone (361) 593-3319, or by linking directly from the website to an e-mail form.

Access Services (Circulation and Reserves) are adjacent to the main exit. See the Jernigan Library website for information in renewing, recalling and placing library items on hold. Details for requesting a TexShare Library card are also found on the website.

Interlibrary Loan and Document Delivery Services provides access to materials not owned by the library. Requests for books, journals and other items can be made via an on-line form linked on the website. Allow at least two weeks for materials to arrive.

The *Education Materials Center (EMC)* houses the which includes state-adopted textbooks and juvenile materials. The EMC is located on the second floor of the library.

The *South Texas Archives and Special Collections* were established to preserve and to make available to the public documentary materials about the history and natural history of South Texas. The Archives are located on the third floor of the library.

The Library participates in a number of resource-sharing programs including the AMIGOS Bibliographic Council, TexShare and The Texas A&M University System Libraries Council. Additionally, the Jernigan Library is a Texas State Document Depository and a Selective Federal Depository Library.

CENTER FOR DISTANCE LEARNING

CENTER FOR DISTANCE LEARNING

Jan Brott, *Associate Director*
Jernigan Library 207. MSC 197. Extension 4411.
www.tamuk.edu/distancelearning

The Center for Distance Learning extends the services (academic credit) of the university to those who are unable to avail themselves of university instruction through regular residence study. The center offers only college credit courses.

COLLEGE CREDIT COURSES

The college credit category covers four forms of delivery: (1) residence off-campus credit courses, (2) distance learning telecommunication (Internet and videoconferencing) credit courses, (3) extension credit courses and (4) correspondence credit courses.

All courses are the equivalent of the same courses taught on campus and are awarded equal credit. All credit course work, including correspondence courses, is calculated as a part of the overall grade point average. A student should expect the same supplemental reading, written reports and other work necessary to make the course equivalent in scope and type of instruction to a campus course. Residence off-campus, distance learning telecommunication and extension classes require the same number of clock hours of instruction as an on-campus class.

Textbooks for all distance learning and continuing education courses will be available from the university bookstore or the electronic bookstore. Students are responsible for obtaining the textbooks and any needed supplies.

General Restrictions on All Courses

A student who desires university credit for a course must meet the university entrance requirements and the specific prerequisite requirements for the individual course. Students on suspension from any university cannot register for any courses.

Residence Off-Campus Credit Courses

Most courses listed in this catalog may be offered for off-campus credit upon sufficient demand and by prior approval of the Texas Higher Education Coordinating Board. Courses for undergraduate credit must have a minimum enrollment of 15 registered students and courses for graduate credit must have a minimum enrollment of 10 registered students.

Off-campus sites include Alice, Beeville, Corpus Christi, Edinburg, Falfurrias, Pleasanton, Robstown and Weslaco. Other off-campus sites may be added as needed.

Distance Learning Telecommunication Credit Courses

Some courses listed in this catalog may be offered, upon sufficient demand and by prior approval of the Texas Higher Education Coordinating Board, through a variety of telecommunication modes, for example: interactive videoconferencing, cable television and the Internet.

Distance learning interactive videoconferencing credit courses are coordinated statewide by the Trans Texas Videoconference Network (TTVN) with central offices located at Texas A&M University in College Station. All Texas A&M System campuses have the ability to collaboratively broadcast and receive hundreds of videoconference courses. Five TTVN studios at Texas A&M University-Kingsville are located on campus and two TTVN studios are located at the A&M-Kingsville System Center in San Antonio. The center also has the capability to broadcast instructional television courses via the local cable companies in the Kingsville, Falfurrias and Corpus Christi areas.

Students may register at off-campus sites, at the Center for Distance Learning and Continuing Education or the university's on-line registration process (Blue and Gold Connection). Registration dates and sites for distance learning telecommunication credit courses are announced prior to on-campus registration dates and are also listed under the Blue and Gold Connection web site: <http://www.tamuk.edu/bluegold/>.

Distance Learning Degree Programs

Texas A&M University-Kingsville offers four distance learning programs at the graduate level: the Master of Science in Communications Sciences and Disorders, the Master of Science in Counseling and Guidance, the Master of Science in Educational Administration, and the Master of Education in Adult Education. All four degree programs are offered through a combination of three delivery modes, off-campus face-to-face instruction, videoconferencing and on-line via the Internet. For more information about these distance learning programs, contact the Center for Distance Learning at www.tamuk.edu/distancelearning or call (361) 593-2861.

Extension Credit Courses

Most courses listed in this catalog may be offered, upon sufficient demand and by approval of the Texas Higher Education Coordinating Board, as extension courses. Extension classes can be organized for out-of-state and out-of-country special purposes. However, the entire expense of the class including salary and travel for the instructor plus administrative cost must be met by the tuition and workshop fees collected. Specific fees will be determined for each course offering. Fees will not be refunded after the first class meeting or the deadline for the first required deposit.

Correspondence Credit Courses

The following courses are offered by the Correspondence Division of the Center for Distance Learning and Continuing Education:

Accounting 2301	English 2314	History 2322
Accounting 2302	French 1311	Mathematics 1314
Economics 2301	French 1312	Mathematics 1324
Economics 2302	French 2311	Mathematics 1325
English 1301	French 2312	Mathematics 1316
English 1302	History 1301	Mathematics 1348
English 2342	History 1302	Sociology 1301
English 2362	History 2321	

Students may register at the Center for Distance Learning or request a registration form by mail. To enroll a student should return the form immediately to the director of the center, accompanied by a current transcript and the registration fee.

Tuition cost for each three hour correspondence credit course shall equal the tuition for an equivalent three hour credit course offered during the fall semester on campus. Fees will not be refunded after a student has received the lesson outline. Students must pay the postage on all papers mailed to the correspondence division. The university bookstore can mail books to a student C.O.D., if notified that the text is needed for a correspondence course.

Special Restrictions

Students may register and begin work anytime on a correspondence course. In order to register for two correspondence courses concurrently special permission from the director of distance learning and continuing education must be secured. Students may not enroll in correspondence courses that they have previously failed in residence.

A student may complete no more than 18 semester hours of work required for a bachelor's degree by correspondence credit. A candidate for a degree should also observe the residence requirements listed under the "General Requirements for a Degree" section of this catalog. Students in residence need to secure written approval from their degree major adviser, chair and college dean before registering for a correspondence course. Permission also has to be obtained from the chair and dean of the department and college offering the course.

Time Limits

No course may be completed in fewer than 60 days. A student normally has a maximum of one year to complete a course. In a hardship case the director of distance learning and continuing education may grant a one-time extension of four months; the student must request such an extension before the course's expiration date and must pay an additional fee of \$25.

Students who need the credit for graduation or certification at the end of a semester must complete all course work at least four weeks prior to the end of that semester.

Completion of Course

In order to secure credit for the course, the student must satisfactorily complete all the lessons outlined for study, do all the required supplementary reading and pass the final written examination given under the supervision of an examiner approved by the center. Students need not wait for the return of lessons before submitting additional lessons. It is the center's policy, however, to accept no more than three lessons per week.

Instructors will not be held responsible for grading papers during the period starting one week prior to the end of a semester or term and two weeks after the beginning of another semester.

Final Examination

Students should mail the Request for Final Examination form to the center upon receiving all of the graded lessons. The final examination must be taken within one month after all lessons have been returned to the student.

A student may make arrangements to take the final examination with officials of another institution and notify the center of such arrangements. In this case the student must pay an appropriate fee to the institution that administers the final. No test fee is charged for tests taken on the Kingsville or Weslaco campuses.

ENRICHMENT ACTIVITIES (NONCREDIT)

Enrichment activities are noncredit offerings including meetings, classes, short courses, workshops and on-line or Internet non-credit courses. A few of the enrichment courses offered periodically through the Center for Distance Learning and Continuing Education include aerobic dance, social dance, conversational Spanish, photography, defensive driving, youth camps and short courses in technical writing, GRE preparation, computers, communications, management and other areas as needed. Over ninety (90) on-line non-credit training courses are available through our **Continue to Learn** program <http://tamuk.continuetolearn.com/>.

No admission requirements are necessary for noncredit course participants. A detailed description of course content and level will be available before enrollment periods. Registration dates and sites for noncredit courses are announced in advance or students may request course information from the center.

The Continuing Education Unit (CEU) will be given for certain noncredit instructional activities. One Continuing Education Unit is defined as ten contact hours of participation in an organized continuing education experience under qualified instruction. (A fraction of a unit may be awarded.) Texas A&M-Kingsville maintains a permanent record of all CEUs awarded to individual participants and an official transcript is available from the center for \$2.

Out-of-State Programs

The center sponsors out-of-state training seminars and short courses in various topics, including language training, culture, arts and crafts, history and other areas as needed. These courses are offered for Continuing Education Units (CEUs) and in some cases for extension credit. More detailed information about these and other programs is available at the Center for Distance Learning and Continuing Education.

Elderhostel Programs

Elderhostel is an independent, nonprofit organization offering short-term academic experiences for people over 55. During an Elderhostel program, seniors study liberal arts courses designed especially for senior citizens. They are challenging and thought-provoking, but do not require any prior knowledge or formal training, homework, exams or grades. Besides daily classes, programs often include course-related field trips.

Most Elderhostel programs last five or six nights and start on Sunday. Seniors stay in comfortable commercial facilities and eat at campus cafeterias and dining halls. For additional information call (361) 593-2861.

Intensive English Program

The Intensive English Program (IEP) curriculum is focused on the needs and goals of each student. The IEP provides intensive English training for non-degree and degree-seeking non-native English speaking students who have not reached the university's minimum TOEFL score requirement. The curriculum features high interest topics and focuses on both accuracy and fluency. The multi-skills course syllabi integrate themes, structures, functions, vocabulary and pronunciation. A computerized language lab with access to the World Wide Web provides an unlimited number of resources in English-as-a-Second-Language. Students who successfully complete the IEP Exit Portfolio are exempted from the university's TOEFL requirement. Four, eight and sixteen week sessions are available every semester or term. Visit www.tamuk.edu/iep for more information.

COLLEGE OF GRADUATE STUDIES

COLLEGE OF GRADUATE STUDIES

Thomas A. Fields, *Interim Associate Vice President for Research and Graduate Studies*
Cousins Hall 105. MSC 118. Extension 2808.
www.tamuk.edu/grad

A primary objective of graduate study is to develop habits of independent scholarship. The quality of work expected from a graduate student differs from that of an undergraduate. The graduate student must strive for an extensive knowledge of the chosen major and its related areas. The graduate student should anticipate lengthy reading assignments, term papers, laboratory work, frequent use of the library and other research facilities and attendance at workshops and conferences.

The dean of the College of Graduate Studies is the general adviser for all graduate students. Each graduate program has one or more graduate coordinators who counsel the student concerning particular programs or course and guide the student to the appropriate program adviser. The program adviser helps direct the student's academic program and chairs the student's graduate committee.

The Graduate Council recommends policy and assists in the direction of the College of Graduate Studies through the Graduate Dean. This body approves curricula leading to a graduate degree and the rules governing those pursuing such a degree.

A graduate faculty, consisting of members of the staff who are actively engaged in recognized scholarly activities and who are eligible to teach graduate level courses, are academically responsible for all graduate programs.

The ultimate responsibility for successful completion of an advanced degree of other program falls upon the student. Since changes in procedure do occur, the student should notify the graduate dean of any change of mailing address or phone number(s) so that these changes might be forwarded.

Graduate Programs Offered

Graduate Degrees

Texas A&M University-Kingsville offers the degrees of Master of Arts, Master of Business Administration, Master of Education, Master of Engineering, Master of Music, Master of Professional Accountancy, Master of Science, Master of Science in Human Sciences, Doctor of Education and Doctor of Philosophy. Graduate programs are offered through the various academic colleges and the degrees are certified and awarded through the College of Graduate Studies.

Certifications and/or Endorsements

Graduate programs are available that lead to certification of special skills or to endorsements added to previously attained degrees or certificates. Each fits a state or federal agency guideline for professional progress. Earning a graduate degree does not necessarily qualify a student for certification or endorsement. However, courses for a

certificate or endorsement often may be applied to a degree program. *Students who have earned a graduate degree must complete a readmission form in order to begin a certificate or endorsement program.*

ADMISSIONS

George Weir, *Interim Director of Admissions*
College Hall 140. MSC 128. Extension 2315.

In order to apply for admission to the College of Graduate Studies, the applicant must submit an application directly to the Office of Admissions. A student must be admitted both to the College of Graduate Studies and to a specific program in order to take courses for graduate credit. This applies to students with an undergraduate degree from A&M-Kingsville as well as to others.

Students must receive a satisfactory score on the appropriate nationally standardized graduate aptitude examination(s). These scores are valid for a period of five years from the date taken. Students with graduate degrees from colleges officially approved by A&M-Kingsville who are seeking a certificate or endorsement only are exempt from the nationally standardized graduate aptitude examination requirement.

All students wanting to attend Texas A&M University-Kingsville must be proficient in the use of English. Students, regardless of immigration status, whose educational instruction has not been in the English language and/or whose first or native language is not English, must demonstrate proficiency in English. Please refer to the Proof of English Proficiency section for more information.

Texas A&M University-Kingsville complies with H.B. 1641 which considers various factors in making a decision for admission into a graduate or professional program.

Admission Deadlines

Completed applications and required documentation must be submitted to the Office of Admissions, Texas A&M University-Kingsville, MSC 128, Kingsville, Texas 78363 by the following deadlines to ensure the application is processed prior to the beginning of the semester:

Domestic Applicants	International Applicants
Fall Semester – July 1	Fall Semester – June 1
Spring Semester – November 15	Spring Semester – October 1
Summer Sessions – April 15	Summer Sessions – April 1

**Departments and/or programs may have a different application deadline than the university deadlines shown above. Check with the department to verify the deadline.

Admission Requirements – Domestic Applicants

Students seeking admission to master's or doctoral programs at Texas A&M University-Kingsville must submit the following:

1. Completed application for admission, including the \$35 application fee. The Apply Texas Application is available online at <https://www.applytexas.org>.
2. Official transcripts of college or university course work from all colleges or universities attended. Degrees received must be posted on the transcript of the awarding institution.
3. Results of the nationally standardized examination sent directly to Office of Admissions, Texas A&M University-Kingsville, MSC 128, Kingsville, Texas 78363 by the testing center. (GRE and GMAT code is 6822; MAT code is 2242)
4. Three (3) letters of recommendation are required for graduate students majoring in any doctoral program plus those seeking a master's degree in Communication Sciences and Disorders.

Admission Requirements – International Applicants

Students seeking admission to master's or doctoral programs at Texas A&M University-Kingsville must submit the following:

1. Completed application for admission, including the \$50 application fee. The Apply Texas Application is available online at <https://www.applytexas.org>.
2. Official transcripts (showing subjects and marks received), diplomas and/or certificates earned from any colleges or universities attended.
3. Certified, literal translations of all credential issued in any language other than English.
4. Proof of English proficiency (see below).
5. Results of the nationally standardized examination sent directly to the Office of Admissions, Texas A&M University-Kingsville, MSC 128, Kingsville, Texas 78363 by the testing service. (GRE and GMAT code is 6822; MAT code is 2242)
6. Three (3) letters of recommendation are required for graduate students majoring in any doctoral program plus those seeking a master's degree in Communication Sciences and Disorders.
7. Proof of ability to meet personal and academic expenses. A minimum of \$24,624 (U.S.) per year is currently required to meet such expenses. Valid financial support documents (less than one year old from the issue date) must indicate the minimum U.S. dollar amount required by the university. The required minimum is subject to change without notice.

Proof of English Proficiency

Texas A&M University-Kingsville requires all applicants, regardless of immigration status, whose educational instruction has not been in the English language and/or whose first or native language is not English, to demonstrate proficiency in English. Because most applicants report the Texas of English as a Foreign Language (TOEFL) score, Texas A&M-Kingsville bases its minimum English language proficiency requirements on the TOEFL. Texas A&M-Kingsville requires a minimum TOEFL score of 550 (paper-based), 213 (computer-based) or 79 (Internet-based).

The following is considered equivalent to the TOEFL scores:

- IELTS 6.0 or above overall band score.

Admission requirements for any graduate program may vary based on the particular program. Refer to the program for which you want to apply for the admission/entrance requirements.

All applicants must be accepted by the department/college program coordinator into a particular program for which they are applying after they have been screened to meet the minimum entrance requirements to the College of Graduate Studies. Admission to the College of Graduate Studies does not guarantee admission to a particular program.

Admission Categories

Unconditional Admission

This status is assigned to entering students who have earned a baccalaureate degree from a recognized college or university and who meet one of the following College of Graduate Studies minimum requirement sets:

1. Have an undergraduate cumulative grade point average between 2.00-2.59 and a minimum GRE composite (Q+V) score of 1000 or minimum MAT score of 398 (optional test to the GRE for Education majors only).
2. Have an undergraduate cumulative grade point average between 2.60-2.99 or an undergraduate grade point average of 3.00 or higher for the last 60 semester credits (or 90 quarter credits).
3. Have an undergraduate cumulative grade point average between 3.00-4.00 and a minimum GRE composite score of 800 or minimum MAT score of 388.
4. Business Administration majors must meet the combined GPA and GMAT requirements as shown in the Graduate Admissions Summary Table.

Probationary Admissions

Applicants not meeting the requirements for unconditional status may be considered for admission on probationary status if the applicant has at least a 2.6/4.0 undergraduate GPA. Individual colleges may also have a minimum standardized test score requirement for admission to this category.

Students must satisfy this status by earning a “B” average on the first 12 semester credit hours before being recommended to unconditional status. An individual program may also have a minimum test requirement for admission to this status.

Student admitted under probationary status will be allowed to complete 12 semester hours of graduate work. Students who maintain a minimum grade point average of 3.0/4.0 may apply for unconditional status. Students not achieving this requirement will be withdrawn from graduate school. The student must apply for unconditional status through the graduate program coordinator to the graduate dean before enrolling in additional course work. Any graduate course work taken beyond the 12 semester hours while on probationary status will not count toward a degree.

NOTE: Probationary status is not available to College of Business Administration students. Students who do not achieve the minimum index score are reviewed by the College of Business Administration Review Committee to determine whether they will be allowed to continue in the graduate program.

Conditional Admission

Conditional Admission means that an applicant’s standardized test results have not been received by the Office of Admissions by the time of registration for a given semester. A student will be allowed to enroll in a maximum of 9 semester hours when admitted conditionally. The student must submit standardized test scores *during the first semester of enrollment* to be admitted to unconditional status or probationary status. Until this condition is met, the student may not enroll in subsequent semesters.

International applicants are not eligible for Conditional Admission at Texas A&M University-Kingsville.

Graduate Admission Summary Table				
College	Admission Status	GPA of 2.00-2.59	GPA of 2.60-2.99	GPA of 3.00-4.00
Agriculture, Natural Resources & Human Sciences, Arts & Sciences, Engineering	Unconditional	1000 or higher on GRE (V+Q)		800 or higher on GRE (V+Q)
	Probationary		Less than 1000 on GRE (V+Q)	
Education	Unconditional	1000 or higher on GRE (V+Q) OR 398 or higher on MAT		800 or higher on GRE (V+Q) OR 388 or higher on MAT
	Probationary		Less than 1000 on GRE (V+Q) OR Less than 398 on MAT	
Business Administration	Unconditional	Overall GPA X 200 + GMAT score must equal at least 970 for Degree status OR GPA on last 60 hours X 200 + GMAT score must equal at least 1050 for Degree status		

Note: The applicant is allowed into Graduate School when he/she meets the above requirements. Applicants with an overall undergraduate GPA between 2.00-2.59 must have a GRE score (V+Q) of 1000 or better to gain admission. To enter into a specific graduate program, the student must then meet the program's specific requirements which are based on GRE/GPA sliding scales (i.e., engineering, business and agriculture). Most of the programs in education and the arts and sciences accept students who meet the minimal Graduate School admission standards.

Prerequisite Course work for Graduate Study

Eighteen semester hours of undergraduate courses in the major subject area, including 12 advanced semester hours, are prerequisite for all graduate study. Each department has the right to examine an applicant's prerequisites and to accept certain equivalent hours or to require additional work if the graduate coordinator and the student's program chair feel it is necessary.

Graduate Readmission

Students who were admitted with a graduate status within the last five years may be readmitted as graduate students. Those students who have remained continuously inactive in excess of five years must meet the current admission standards before being readmitted. Post-masters students from A&M-Kingsville who are returning for certification can be readmitted under the initial admission standards of their masters program. Students returning for certification must complete another application for admission (www.applytexas.org) to be admitted for the certification program.

Admittance to a Specific Program

Admittance to the College of Graduate Studies does not guarantee acceptance into a specific program. Standards for admittance to a specific program are set by the college that offers the program. Students must therefore check the admission requirements to the program of interest before they seek admission to the College of Graduate Studies.

Before admission to a specific degree program, the graduate coordinator for the program must accept the student. The program adviser will direct the degree plan and research through the student's graduate committee. The composition of the student's graduate committee varies from program to program; however, at least one member must be from each program segment.

If, after admittance to a specific program, the applicant desires a different program, the student must be admitted to the new program before being allowed to register again. Failure to follow policy and procedure may void the application of any courses completed toward a degree in a specific program.

Graduating Seniors

All students (except graduating seniors who have the graduate dean's written approval on the form titled "Concurrent Enrollment Form") must be admitted with graduate status by the Office of Admissions before enrolling in a 5000 level course.

A Texas A&M University-Kingsville student in the last semester or summer of undergraduate work may, by written request to the graduate dean, undergraduate dean and graduate coordinator, enroll for a maximum of 6 semester hours of graduate work consistent with the normal load regulations for graduate students. The graduate courses may not be used to satisfy requirements for the baccalaureate degree. The student must satisfy the communication skills competency requirements and must have a grade point average in excess of 2.6 (effective Fall 1998) on a 4.0 scale. This request must be approved before the student registers for the graduate courses. Forms for "Concurrent Enrollment" are available in the Graduate Dean's office.

Transfer Students and Transferred Grades

Only grades of *A* or *B* earned on applicable graduate level courses which have been approved in writing by the graduate coordinator/adviser may be transferred for graduate level credit. Course work in which no formal grades are given (ex., *CR*) is not acceptable for transfer credit without the approval of the Dean of the College of Graduate Studies. Transferred grades cannot be used to raise the grade point average of either the major or supporting field courses taken at A&M-Kingsville. Transferred courses must have been taken within the last five years.

The total number of graduate credit hours that may be transferred and accepted to apply toward a specific degree is found under the description of each degree plan offered. In all cases, no more than one-half of the total number of semester hours required for a master's degree (not including the Thesis 5306 research courses or the Research Project 5305 course) and no more than one-half of the semester hours for the major subject area or for each supporting field may be transferred. Such courses must be approved by the Dean of

the College of Graduate Studies upon recommendation of the appropriate graduate coordinator and the student's program chair. None of the transferred courses may have been applied toward a previous degree.

Concurrent Enrollment at Other Institutions

Credit earned by a student at another institution while concurrently enrolled at A&M-Kingsville will be transferred only if the student has received written approval from the graduate coordinator/adviser. This approval will be given consistent with A&M-Kingsville's normal course load regulation.

Note: Applications to the graduate program are available at www.applytexas.org. Questions can be directed to the Office of Admissions, Texas A&M University-Kingsville, MSC 128, Kingsville, Texas 78363, phone (361) 593-2315, fax (361) 593-2195.

ACADEMIC REGULATIONS

Students should review the earlier section of the catalog entitled "Academic Regulations" for rules which apply for all programs, graduate and undergraduate. Here are listed only the academic regulations that applies specifically to graduate students.

Degree Plans

The student must file a signed initial degree plan with the College of Graduate Studies, through the graduate coordinator/adviser, by the time the student completes 12 semester hours of graduate course work. A final degree plan is filed when all conditions have been removed. Forwarding the degree plan to the graduate dean denotes (1) the completion of requirements outlined on the Student's Acceptance Notice and (2) the student's acceptance into degree status. A copy of the signed final degree plan with any revisions must also be forwarded to the graduate dean at the time of candidacy.

REGISTRATION

The university has a computer-assisted registration system. This system allows a student who registers early priority in course selection and class schedule. It is designed to provide individual academic advising between faculty and student. This gives students an opportunity to review their academic programs and select the specific sections of the courses desired for the next semester. For specific dates and information on registration, the student should consult the university website.

Web Registration

The university has a computer-assisted registration system which allows students to register over the web. Web registration is available for eligible students only and requires academic advising prior to registration. Specific registration dates, instructions and information are provided on the university website.

Normal Course Load

A full-time graduate student is one registered for 9 semester credit hours in a fall or spring semester, 3 hours in each summer term or 6 semester credit hours during a ten-week summer semester. No graduate student may enroll in more than 15 hours (five academic courses) during the fall or spring semester or 6 hours (two academic courses) each summer term. Enrollment in Graduate Research Project 5305, Thesis 5306 (proposal or defense) or Research in Environmental Engineering 6305 (thesis proposal or defense) constitutes a full course load.

Schedule Changes

Dropping a Course

A course may be dropped by a student without approval from his/her academic adviser or other university official. However, athletes must have approval from the athletic adviser to insure eligibility requirements. It is highly recommended that a student consult his/her academic adviser because of the impact on financial aid, graduation, etc. After the on-line registration system is closed, all drops must be processed by the Office of the Registrar.

A student who, by dropping a course, becomes registered for less than a normal load will be reclassified as a part-time student.

If a student drops the only course for which enrolled, the student must follow the process for withdrawing from the university as stated below.

Adding a Course

A course may be added by a student using the on-line registration system without approval of university officials, as long as departmental approval is not required. (See regulation for "Normal Load.") It is highly recommended that a student consult with his/her academic adviser before attempting to add a course. After the on-line registration system is closed, written permission is required from the academic adviser and professor (of the course being added) to add the course. These requests must be processed by the Office of the Registrar. The student may only add classes during the time specified in the official academic calendar.

Withdrawal from the University

If a student finds it necessary to withdraw during the session, the student must notify the Office of the Registrar and process a withdrawal form. If the withdrawal is before the midsemester point, the student will receive an automatic grade of *Q* in each course. If the withdrawal is after the midsemester point, the student will receive a grade of *Q* or *F*, depending on whether the student is passing or failing at the time of the withdrawal. If the student abandons the courses registered for without officially withdrawing, the student will receive a grade of *F* in each course, regardless of the time the student ceased to attend classes. (See also regulations entitled "Refund of Fees.")

Withdrawal of Students Ordered to Military Active Duty

If a current student is called to active duty, the student has several options for enrolled courses. The student must provide a copy of military orders to receive one of the following: 1) full refund of tuition and fees paid by the student for the semester in which the student withdraws; 2) with instructor approval, incomplete grade(s) for the semester in which the student withdraws; or 3) with instructor approval, assignment of an appropriate final grade(s) or credit(s). Upon the student's request, pre-registered classes will be dropped. If the student returns prior to the beginning of a semester he/she will be reinstated into this institution.

Visiting a Course

Any person may request permission of the Provost and Vice President for Academic Affairs to visit a course. Individual instruction courses are not open to visitors. Visitors do not have the privilege of submitting papers, taking part in class discussions or participating in laboratory or field work. Visitors pay fees according to the published credit hour fee schedule, except that no additional fee will be required of a full-time student. A visitor's name will not be entered on the class rolls or permanent records. The notice of approval of a request to visit a course, properly receipted after fees are paid, will serve as a permit to attend a class.

CLASS POLICIES

A student has the right to expect competent, well-organized instruction for the full number of clock hours allotted for a course; to sufficient written assignments, graded fairly and with reasonable promptness to show the student's academic standing in the course at least before midsemester; to have ample opportunity to confer with the instructor at published office hours and to review graded written work; to freedom from ridicule, discrimination, harassment or accusations in the presence of other students or faculty members; and to an avenue for appealing to higher academic authority in case of alleged unfairness by an instructor.

Cheating and Plagiarism

Students are expected to do their own course work. Simple cases of first offense cheating or plagiarism by an individual student may be handled by the instructor after consultation with the department chair. When the evidence is indisputable, the usual penalty is a grade of *F* on the particular paper or in the course. The student is usually confronted with the evidence in private and advised of the penalty to be assessed. The evidence will be retained for at least one full year.

Supervisors of graduate research projects and Chairs of theses and dissertations have taken measures to ensure that the manuscripts are free of plagiarism.

For more serious cases, such as those involving repeated offenses, conspiracy with other students or the theft and selling of examination questions, a report should be made by the instructor via the department chair and dean of the college to the Provost and Vice President for Academic Affairs for disciplinary action. Expulsion from the university is a normal penalty for such offenses.

Plagiarism is a serious violation of academic integrity, and students who engage in plagiarism are subject to disciplinary action. The type of disciplinary action will depend on the severity of the plagiarism but may ultimately lead to the student's expulsion from the program and/or revocation of a student's degree, if the student has already graduated.

Class Attendance

A vital part of every student's education is regular attendance of class meetings. Every faculty member is to keep a current attendance record on all students. Any absences tend to lower the quality of a student's work in a course, and frequent or persistent absences may preclude a passing grade or cause a student to be dropped from one or more courses upon the request of a faculty member to the Provost and Vice President for Academic Affairs.

Absences for Religious Holidays

The university will allow students who are absent from classes for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the fifteenth day after the first day of the semester, that student has notified the instructor of each class to be missed. The instructor may appropriately respond if a student fails to complete the assignment or examination within a reasonable time after the absence.

"Dead Week and Study Day"

To support the learning environment, the university will adhere to a four school day period of student study before the first scheduled final examinations each term. During this time, no required quizzes, tests or examinations (except for make-up tests and/or final examinations for graduating seniors) shall be administered. The latter does not preclude the introduction of new material in class or the administering of laboratory final examinations, nor does it create any implication that class attendance is not expected during this period. The day before final examinations are scheduled to begin will be designated as a study day. No classes will be held on this day to allow preparation time for students and faculty. Scheduling of other university events or functions that involve students is discouraged and should be limited during this period.

Research on Human Subjects

Research that involves human subjects must be approved by the Institutional Review Board for the Protection of Human Subjects.

Correspondence Work

Correspondence courses are unacceptable for graduate credit.

Required Grades

A minimum grade point average of 3.0 on a 4.0 scale is required in each program segment (major/supporting field/resource or graduate certification). Grades of *D* or *F* do not apply toward a graduate degree but are used to figure grade point averages. Courses may be repeated for credit, in which case the last grade of record is the official grade. Minimum grades required for stem work (assigned prerequisites) are noted on the initial degree plan and/or certification plan. Courses taken outside official program(s) are not subject to these grade requirements unless so specified by the program adviser on the degree plan.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. Certification of this requirement shall be done by having the graduate student file a "Graduate Credit for Undergraduate Courses Form" with the graduate coordinator and the Dean of Graduate Studies.

GRADES

Grades, with numerical values corresponding to these letters, are recorded as follows:

<i>A</i>	Excellent, 90-100.
<i>B</i>	Good, 80-89.
<i>C</i>	Average, 70-79.
<i>D</i>	Passing, 60-69.
<i>F</i>	Failure, below 60.
<i>I</i>	Incomplete: given to a student who is passing but has not completed a term paper, examination or other required work. The instructor and the student are required to complete the standard university contract form for each course in which the temporary grade of <i>I</i> has been assigned. The grade of <i>I</i> will be used only to allow a student who has encountered some emergency such as illness or an accident an opportunity to complete the requirements

for a course. A grade of *I* reverts to a grade of *F* one year from the close of semester/term in which the grade was originally recorded if the course requirements have not been satisfied.

- Q* Dropped: given when a student has officially dropped or withdrawn from the university before or on the midsemester point as indicated on the official university calendar, regardless of student's standing in class. Also given after the midsemester point to a student who is passing at the time the official drop is processed. (A student who is not passing receives the grade of *F* under such circumstances.)
- * *IP* In Progress: used for graduate theses and dissertations. (Students must register every subsequent semester until the final grade is given.) In-progress (*IP*) grades remain indefinitely on a student's transcript and cannot be changed with a change-of-grade card.
- S* Satisfactory: used only to report dissertation progress in doctoral programs approved to use this grade.
- U* Unsatisfactory: used only to report dissertation progress in doctoral programs approved to use this grade.
- X* No grade posted by instructor: used to indicate that no grade was posted by the instructor teaching the course.
- CR/NC* Credit/Noncredit: used for courses that do not meet the normal or traditional framework of course scheduling and do not lend themselves to letter grading.

*Students enrolled in the following courses must abide by the requirements below to be considered for financial aid on a full-time basis.

1. Students enrolled in the 5305 classes or in MGMT 5335 are required to be continuously enrolled every semester in the class until they receive a grade in the class. For each semester they are enrolled but do not complete the requirements, the student is given an IP (In Progress). Students will be allowed two IPs (long semester enrollments). If at the end of the second enrollment in the class, the student still has not completed the requirements, the student will be placed on FAS (Financial Aid Suspension).
2. Students enrolled in the 5306 Proposal stage of the thesis are required to be continuously enrolled every semester in the class until they receive a grade in the class. For each semester they are enrolled but do not complete the requirements, the student is given an IP (In Progress). Students will be allowed two IPs (long semester enrollments). If at the end of the second enrollment in the class, the student still has not completed the requirements, the student will be placed on FAS (Financial Aid Suspension).
3. Students enrolled in the 5306 and 6305 Thesis stage of the thesis are required to be continuously enrolled every semester in the class until they receive a grade in the class. For each semester they are enrolled but do not complete the requirements, the student is given an IP (In Progress). Students will be allowed two IPs (long semester enrollments). If at the end of the second enrollment in the class, the

student still has not completed the requirements, the student will be placed on FAS (Financial Aid Suspension).

4. Students enrolled in 6305/6397/6398 Dissertation Research stage are required to be continuously enrolled every semester in the class until they receive a grade in the class. For each semester they are enrolled but do not complete the requirements, the student is given an IP (In Progress). Students will be allowed four IPs (long semester enrollments). If at the end of the fourth enrollment in the class, the student still has not completed the requirements, the student will be placed on FAS (Financial Aid Suspension).
5. Students enrolled in the 6305/6399/6999 Dissertation stage are required to be continuously enrolled every semester in the class until they receive a grade in the class. For each semester they are enrolled but do not complete the requirements, the student is given an IP (In Progress). Students will be allowed four IPs (long semester enrollments). If at the end of the fourth enrollment in the class, the student still has not completed the requirements, the student will be placed on FAS (Financial Aid Suspension).

Since summer sessions are considered by the Financial Aid Office to be used for clearing any deficiencies, IPs received during summer sessions will not be counted against the allowable number of IPs for Satisfactory Academic Progress requirements.

Students, who are placed on FAS because of the IPs, will have to submit an IP Appeal which will be evaluated by a committee made up of the Graduate Dean, the Associate Vice President for Enrollment Management and the respective department chair.

In Progress (IP)

If a student does not make satisfactory progress in the 5305/5306/6305/6398/6399 courses or in MGMT 5335 during a given semester or term, the notation IN PROGRESS (IP) is given as a grade. The student must register for the same course again in a subsequent semester or term until the course is successfully completed. An IN PROGRESS notation in the 5305/5306/6305/6398/6399 courses or in MGMT 5335 remain *indefinitely* as *IP* on the student's transcript should the student's committee approve the student for a nonthesis degree program at some later date, or should the student not complete the degree. The *IP* cannot be changed with a change-of-grade card.

Change of Grade

After being reported to the Registrar, grades other than *I* may not be changed unless an error has been made by the instructor.

Students should review their end of semester final grades closely to ensure their accuracy. If an error or discrepancy should occur, the student should contact the appropriate professor and/or the Office of the Registrar immediately for resolution. It is recommended that those changes occur no later than the beginning of the next semester. Under no circumstances will grades be changed after one calendar year.

Repetition of a Course

If a student repeats a course that may not be taken for additional credit, it is the policy of the university to count as part of a student's cumulative grade point average only the last grade received in the course, whether passing or failing, other than a grade of *Q*. However, for purposes of grade point average calculation on course work for graduation, grades stand as recorded unless the same course is repeated at this university.

Students who have received their first bachelor's degree from this institution cannot repeat courses that were used to earn the first degree for purposes of grade point average calculation.

It is the responsibility of the student, after repeating a course, to file a special request form in the Office of the Registrar, so that the adjustment in the grade point average, when applicable, can be entered on the permanent record.

Repeated Grade Notation

Repeated course(s) and grade(s) are not removed from the official or unofficial transcript. The repeated grade and grade points will be removed from the cumulative grade point average only. The repeated course will be identified with the letter "E" next to the quality points on the transcript. Repeating a course after graduation will not change your graduation grade point average.

Scholastic Probation

A graduate student pursuing a specific program is placed on scholastic probation if, at the end of either long semester or the second summer session, the cumulative grade point average of the student's graduate program falls below 3.0. If the probationary status is not removed during the next full semester for which the student enrolls (combined summer terms count as one full semester), the student must be reinstated before registering for further graduate work.

Reinstatement

The graduate student who is dismissed for any reason may request reinstatement through the graduate dean. The student will be screened by the graduate dean in consultation with the graduate coordinator and program adviser from the academic area in which the student desired to study.

Satisfactory Rate of Progress

A graduate student must exhibit a normal and reasonable rate of scholastic progress. If, in the opinion of the student's committee and the graduate dean, the student has made an unsatisfactory rate of progress, the student may be dismissed from a specific program, even with a grade record that falls within guidelines.

Graduation with Honors

Only students completing **undergraduate** degrees with superior overall academic records will be graduated with honors.

THE STUDENT'S PERMANENT RECORD

Transcripts

Official transcripts of the student's academic record may be requested in writing or in person from the Office of the Registrar at no cost. The student should list the complete name as recorded while attending the university, social security number, date of birth, first and last enrollment, number of transcripts requesting and the address where the transcript(s) are to be mailed. All transcript requests must be signed by the student; failure to sign the request will delay processing. Transcript requests may be faxed but must have all required information and signature.

A student must provide identification at the Office of the Registrar when picking up a copy of a transcript in person. The Family Educational Rights and Privacy Act of 1974, and amendments thereto, states that parents, spouse, legal guardian or others are not authorized to pick up transcripts of students unless written authorization by the student is provided.

Holds

All students, including continuing education students, should clear any holds they have on their records immediately. Failure to clear a hold causes delays and inconvenience when trying to obtain copies of transcripts through the mail or in person. Since a hold on the record may affect printing and mailing of grades at the end of the semester, students should be sure they do not have any holds before final examinations start. Students with a registration hold on their record will not be permitted to register.

Change of Name, Address or Social Security Number

Students who wish to change their name on their transcript must provide legal documentation of the change to the Office of the Registrar. Not advising the Office of the Registrar of a legal name change may cause transcript requests and registration problems. Students who change their address should likewise notify the Office of the Registrar, Financial Aid or Business Office.

Death of a Student

The death of a currently enrolled student should be reported to the Office of the Registrar immediately. After confirming the death, the Office of the Registrar notifies the appropriate faculty and academic dean, closes all student records and codes the student information system to block mailings to the deceased.

GENERAL REQUIREMENTS FOR GRADUATION WITH A MASTER'S DEGREE

Graduate degree candidates must obtain clearance and complete a Degree Candidacy form at the Graduate Office. Clearance to graduate follows recommendation by the official graduate adviser(s) to the graduate dean. Students may apply for candidacy with the graduate dean six months in advance of the day of graduation by presenting a signed, final degree plan.

A master's degree may be earned by completing one of the four plans described below. A Master of Science degree is awarded to candidates who complete only the requirements specified below for one of these plans. A Master of Arts degree is awarded to candidates who, in addition to the requirements for one of these plans, complete four college-level courses in a single foreign language with grades of C or better, or who have the equivalent in advanced placement. It is the student's responsibility to submit to the Graduate Office the proper documentation showing the completion of four college-level courses taken in a single foreign language before processing the graduate diploma card at candidacy.

Other master's degrees exist: the Master of Music (described under Music), the Master of Business Administration, the Master of Education (described under Education) and the Master of Engineering (described under Engineering).

Research that involves human subjects must be approved by the Institutional Review Board for the Protection of Human Subjects.

Plan I-A (with thesis, major and supporting field):

1. Thirty semester hours of approved graduate courses, with 18 to 24 semester hours (including 6 hours of Thesis 5306 research) in a major subject area and 6 to 12 semester hours in a supporting field subject area are required. The supporting field may be divided between two subject areas, with 6 semester hours in each.
2. At least 24 of the 30 semester hours must be in graduate level courses. No more than 3 semester hours of credit for special problems courses (other than the thesis courses) may be accepted. No credit extension or correspondence courses will be accepted.
3. A research thesis must be prepared under the direction of the professor in the major subject area who is also the student's program chair. A thesis proposal approved by the program chair must be completed for a grade to be assigned in the first 3 hours of Thesis 5306. A copy of the proposal is to be filed in the Graduate Office. The thesis must be accepted by a committee consisting of the program chair, at least one other professor from the major area and one professor from the supporting field area (or one from each of the supporting field areas).

4. The student will make an oral defense of the thesis before the committee *no later than five weeks before commencement*.

Plan I-B (with thesis and major):

1. Thirty semester hours of approved graduate courses, with at least 24 semester hours (including 6 hours of Thesis 5306 research) in a major subject area are required.
2. At least 24 of the 30 semester hours must be in 5000-level courses. No more than 3 semester hours of credit for special problems courses (other than the thesis courses) may be accepted. No credit for extension or correspondence courses will be accepted.
3. A research thesis must be prepared under the direction of the professor in the major subject area who is the student's program chair. A thesis proposal approved by the program chair must be completed for a grade to be assigned in the first 3 hours of Thesis 5306. A copy of the proposal is to be filed in the Graduate Office. The thesis must be accepted by a committee consisting of the program chair and at least two other professors from the major area.
4. The student will make an oral defense of the thesis before the committee *no later than five weeks before commencement*.

NOTES ON PLAN I:

Thesis 5306 is used solely by Plan I students. The thesis requires 6 semester credit hours of grades, the first 3 semester credit hours consisting of a proposal and the last 3 semester credit hours consisting of a thesis. The students should be enrolled in 5306 during semesters or summer terms when the student is receiving supervision from the research adviser, thesis committee or is receiving a research stipend.

The student must be registered for the thesis course during the semester of graduation. A thesis proposal signed by the student and the thesis committee constitutes the minimum requirement for the student to receive a letter grade on the first three hours of thesis.

The final form of each research thesis must be approved by the graduate dean for style, format and scholarly merit. Instructions concerning the form to be used and details to be followed in preparing the thesis may be obtained from the Graduate Office. Five copies of the approved thesis must be filed with the graduate dean at least three weeks before commencement. The student may have additional copies bound at extra cost.

In Progress (*IP*) grades are assigned in 5306 when appropriate until a letter grade is assigned. *IP* grades remain indefinitely on a student's transcript and cannot be changed with a change-of-grade card. Students must be actively enrolled in 5306 to receive the letter grade.

Plan II (with major and supporting field):

1. Thirty-six semester hours of approved graduate courses, with 21 to 24 semester hours in a major subject area and 12 to 15 semester hours in a supporting field subject area are required. The supporting field may be divided between two subject areas, with at least 6 semester hours in each.
2. At least 21 semester hours in the major subject area and at least 9 semester hours in the supporting field subject area must be in 5000-level courses. Without special permission from all members of the student's committee and the graduate dean, no more than 6 semester hours of credit for special problems courses may be accepted. No more than 6 semester hours of credit for extension courses of this university may be accepted.
3. A research project, produced as a major assignment in a 3 hour 5000-level, research-titled, course (which may be a special problems course) or Research Project 5305 in a major subject area, is required.

Plan III (with major and resource areas):

1. Thirty-six semester hours of approved graduate courses, with at least 24 hours in a major subject area. (This plan requires resource areas rather than supporting field subject areas. A resource area consists of no more than 6 semester hours of graduate credit in a concentrated area.)
2. At least 27 of the 36 semester hours must be 5000-level courses. Without special permission from the appropriate graduate coordinator and the graduate dean, no more than 6 semester hours of credit for special problems courses may be accepted. No more than 6 semester hours of credit for extension courses offered by A&M-Kingsville may be accepted.
3. A research project, produced as a major assignment in a 3 hour 5000-level, research-titled, course (which may be a special problems course) or Research Project 5305 in the major subject area, is required.

NOTES ON PLANS II AND III:

Research Project 5305 may be used for the selection, planning and conduct of a research project to fulfill research requirements under Plan II and Plan III programs. The graduate research project requires a grade in 3 semester credit hours of 5305. The student should be enrolled in 5305 during semesters or summer terms when the student is receiving supervision from the research adviser, graduate research committee or is receiving a research stipend.

For Plan II, the graduate research project must be approved and signed by a committee consisting of the program chair, at least one other professor from the major area and one professor from the supporting field area (or one from each of the supporting field areas). For Plan III, the graduate research project must be approved and signed by the program chair. In both Plan II and Plan III, the graduate research projects must have

the signature of the Department Head. One copy of the approved research project will be placed in the student's file in the major department and a second copy will be submitted to the Graduate Dean for final approval.

In Progress (*IP*) grades are assigned in 5305 when appropriate until a letter grade is assigned. *IP* grades remain indefinitely on a student's transcript and cannot be changed with a change-of-grade card. Students must be actively enrolled in 5305 to receive the letter grade. This also applies to MGMT 5335.

Students must be enrolled in the Thesis/Proposal 5306 courses or 5305 the semester or term when either of the documents is submitted to the Dean of the College of Graduate Studies for approval. Only after the Dean signs-off on either of the documents, may the professor post a grade.

Conditions Applicable to Graduate Degrees

Final Degree Plan

Once a final degree plan has been submitted to the graduate office for candidacy check-out, the final degree plan cannot be changed during the semester of candidacy without the graduate dean's review and written permission.

Shortened-format Classes

Shortened-format classes are limited to a maximum of six semester hours of graduate credit that a student may use on a degree plan.

Comprehensive Examination(s)

Each graduate student must demonstrate proficiency in the major subject (and supporting field area if it includes nine semester hours or more) by passing comprehensive examinations approved by the appropriate graduate coordinator(s) and administered by the student's program committee.

The comprehensive examination(s) and thesis defense should be completed no later than the first week of April (for May candidates), July (for August candidates) and November (for December graduates).

Required Component of all Graduate Curricula

Each program recognized by the College of Graduate Studies must design the graduate curriculum so that it requires its students to analyze, explore, question, reconsider and synthesize old and new knowledge and skills. The curriculum must be composed of discrete courses so as to provide the graduate student an education above and beyond that offered to undergraduate students. In this manner, the graduate curriculum will afford the depth of education, the specialized skills and the sense of creative independence that will allow the graduate student to practice in and contribute to a profession or field of scholarship.

Stacked Courses

The College of Graduate Studies requires that there be a substantial difference between undergraduate and graduate instruction and that graduate study be at a level of complexity

and generalization that extends the knowledge and intellectual maturity of graduate students. A limited number of 4000 level and 5000 level courses may be approved to be taught as “stacked” courses. The syllabus for the graduate course must indicate a higher level of complexity and have *different student learner outcomes*. (The latter requirement holds true for graduate students taking approved 4000 level courses for graduate credit.)

Residency Requirements

The graduate student will comply with the residency policy established by the individual graduate program. Students may consult with the graduate dean for additional information.

Registration

Graduate students must be registered in thesis/dissertation the semester of graduation.

Graduate Assistantships and Fellowships

A Graduate Assistant must be enrolled as a full-time graduate student (9 credit hours during the long term and 3 credit hours during each summer session). If the graduate student drops below the full-time course load requirements, the assistantship may be terminated. The student may carry a maximum 6 hour teaching load in the long term and a maximum 3 hour teaching load each summer session as long as the combined hours of course load and teaching load do not exceed 15 hours in a long semester and 6 hours in each summer session. Graduate Teaching Assistants must have completed 18 semester hours of graduate course work in order to teach.

Graduate Fellowships/Scholarships require that the graduate student be enrolled for a minimum of three semester graduate credit hours during the long terms and each summer session.

Course Longevity (Master Degrees)

A master's degree student must complete all requirements for each specific graduate degree within five years of initial registration for that degree. Graduate credits older than those stipulated are not applicable toward a graduate degree without written approval from the Graduate Dean.

Graduation Under a Particular Catalog

Students receive a graduate degree when they satisfy the requirements of the first or any subsequent catalog under which they earned credit for the degree, as long as that catalog is not more than five years old.

Application for Degree

Graduate degrees are conferred at the close of each regular semester and second summer session. Candidates for advanced degrees who expect to complete their work must first seek approval from their graduate adviser/coordinator to apply for graduation with the Graduate Dean, submit a final degree plan/transcript, complete an application for candidacy in the Graduate Office and then pay the required graduation fee at the Business Office. It is the student's responsibility to be informed and meet graduation deadlines which are published in the Academic Calendar in an earlier section of this Catalog and in the Class

Schedule each semester. A student cannot graduate with an “I,” “IP” or “F” notation on their academic record in the last semester prior to graduation.

Use of Official Name on Diploma

Students applying for graduation must use their official name as listed on their permanent record in the Office of the Registrar. No nicknames or any other informal name will be allowed. All printed information, including diplomas, will list a student's official name. Students requesting a name other than their official name on their diploma must change their name on their permanent record.

Graduation in Absentia

Graduation in absentia will be permitted only under special conditions stated in writing and approved by the Provost and Vice President for Academic Affairs.

Authorship and Copyright

Students shall own the copyright on their theses or dissertations. Primary authorship on manuscripts derived from a dissertation, thesis or research project must be agreed upon in writing by the mentor and the student prior to submission for publication. Data collected in the process of research shall be the mutual property of all collaborators unless otherwise stated in writing. It is the responsibility of the mentor to be proactive in this particular case and file any letter or agreement on a timely basis with the Graduate Office.

Topic Courses vs. Special Problems Courses

Selected topics courses are organized courses which are taught in a regular classroom environment and which meet regularly according to Texas Higher Education Coordinating Board approved contact hours per semester hour of credit. The primary modes of instruction of an organized class are lecture, laboratory, seminar or group television.

Special problems courses are independent study or individual instruction courses which may or may not meet regularly and which usually involve one-on-one professor-student contact. Library study and/or research data collection leading to either research paper(s), a thesis or formal testing is the appropriate format for such courses.

GRADUATE DEGREES AND MAJORS OFFERED

DEGREES	MAJORS
Doctor of Education	Bilingual Education Educational Leadership (<i>joint degree with Texas A&M University-Corpus Christi</i>)
Doctor of Philosophy	Environmental Engineering Wildlife Science Hispanic Studies (<i>cooperative degree with Texas A&M University; Texas A&M University-Corpus Christi; Texas A&M International University</i>) Horticulture (<i>cooperative degree with Texas A&M University</i>)
Master of Arts	Bilingual Education, Counseling and Guidance, Educational Administration, English, History and Politics, Psychology, Sociology, Spanish
Master of Business Administration	Business Administration
Master of Education	Adult Education, Early Childhood, English as a Second Language, Special Education
Master of Engineering	Chemical Engineering, Civil Engineering, Electrical Engineering, Environmental Engineering, Mechanical Engineering, Natural Gas Engineering
Master of Music	Music Education
Master of Professional Accountancy	Accounting

MAJORS OFFERED cont.

DEGREES

MAJORS

Master of Science

Agribusiness, Agriculture Science, Animal Science, Art, Bilingual Education, Biology, Business Administration, Chemical Engineering, Chemistry, Civil Engineering, Communication Sciences and Disorders, Computer Science, Counseling and Guidance, Educational Administration, Electrical Engineering, English, Environmental Engineering, History and Politics, Industrial Engineering, Industrial Management, Instructional Technology, Kinesiology, Mathematics, Mechanical Engineering, Natural Gas Engineering, Plant and Soil Science, Psychology, Ranch Management, Range and Wildlife Management, Reading Specialization, Sociology

Master of Science in
Human Sciences

Human Sciences

MASTER'S PROGRAMS IN AGRICULTURE, NATURAL RESOURCES AND HUMAN SCIENCES

The Dick and Mary Lewis Kleberg College of Agriculture, Natural Resources and Human Sciences offers graduate programs in Agronomy and Resource Sciences, Animal and Wildlife Sciences and Human Sciences.

AGRICULTURAL AND NATURAL RESOURCES PROGRAMS

The Master of Science degree is offered in Agribusiness, Agriculture Science, Animal Science, Plant and Soil Science, Ranch Management and Range and Wildlife Management. Both thesis and graduate research projects are available. The former requires satisfactory completion of a minimum of 24 credit hours of graduate course work plus 6 credit hours of thesis. The graduate research project requires the satisfactory completion of a minimum of 36 credit hours of graduate work, including a 3 credit hour special problems course that requires a research paper shorter than a thesis. A Plan I thesis program requires the completion of 6 semester hours of graduate level statistics courses, whereas the Plan II program requires completion of a 3 semester hour statistics course. Research projects are available in all majors in agriculture.

Admission to the program requires a baccalaureate degree with adequate course work in the field of interest and a score of at least 800 (verbal plus quantitative) on the GRE Aptitude Test with an undergraduate grade point average of a 3.0 or better, or a GRE of 1000 (verbal plus quantitative) with an undergraduate grade point average of 2.6 to 2.99. Students must be accepted by a graduate faculty member who agrees to guide the student's program and serve as the major adviser. A student may be required to take a preliminary examination to determine proficiency and background preparation.

AGRONOMY AND RESOURCE SCIENCES

William P. Kuvlesky, Jr., *Graduate Coordinator*
Support Services Building Room 116. MSC 156. Extension 3712.
william.kuvlesky@tamuk.edu

Graduate Faculty: John V. DaGraca, Barry H. Dunn, Duane T. Gardiner, Eliezer S. Louzada, Shad D. Nelson, Mamoudou Setamou, Mani Skaria, Randall H. Williams

Associate Member: Kimberly C. McCuiston

The purpose of the graduate program in the Department of Agronomy and Resource Sciences is to provide students with a solid foundation in agricultural and natural resource sciences, theory and management. Goals of the department include developing new ideas through research, training graduate students in creativity and freedom of thought and preparing students for success in the face of a rapidly evolving economy.

AGRIBUSINESS (AGBU)

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5390. Advanced Studies in Agribusiness. 3(3-0)

Material offered is determined by the needs of the students. Laboratory and lecture vary according to the subject needs. May be repeated once under a different topic.

5395. Advanced Problems in Agribusiness. V:1-3

Independent work which may include a laboratory or field problem. Variable credit dependent upon the problem; may be repeated for a total of 3 semester hours for Plan I or 6 semester hours for Plan II or Plan III students. Prerequisite: approval of a faculty member who will supervise the problem.

AGRICULTURE SCIENCE (AGSC)

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5312. Facilities for Agriculture Sciences. 3(3-0)

Planning and designing agricultural facilities for the secondary school with consideration for educational needs, curriculum, efficiency of use, inventory control and management. Organizing, equipping, maintaining and operating the shop, greenhouse, farm and meat processing laboratories.

5361. Program Building in Agricultural Education. 3(3-0)

Organization of education programs in vocational agriculture for production, cooperative training and pre-employment classes. Developing annual teaching plan.

5363. Methods in Adult and Young Farmer Education. 3(3-0)
Determining needs, methods of establishing programs, evaluating programs and methods of teaching producers involved in agriculture. A detailed study of adult and young farmer program.

5367. Organization and Administration of Vocational Education. 3(3-0)
Theories and procedures applicable to vocational education in the areas of program standards, finances, state plan, facilities, recruitment and selection of personnel and role of community advisory committees as applied to vocational education.

5390. Advanced Studies in Agricultural Education. 3(3-0)
Material offered will be determined by the needs of the students. May be repeated once under a different topic. Topics include the following: supervision of occupational experience programs in agriculture, agricultural youth leadership, instructional technology in agriculture and current issues in agricultural education.

5395. Advanced Problems in Agricultural Science and Technology. V:1-3
Independent work which may include a laboratory or field problem. Variable credit dependent upon the problem; may be repeated for a total of 3 semester hours for Plan I or 6 semester hours for Plan II or Plan III students. Prerequisite: approval of a faculty member who will supervise the problem.

PLANT AND SOIL SCIENCE (PLSS)

Ph.D. courses in Plant and Soil Science may be taken by master's students and applied toward the master's degree. These courses are listed in the catalog section entitled "Doctoral Programs in Agriculture."

5305. Graduate Research Project. 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5324. Forage Quality. 3(3-0)
Advanced topics in forage quality as related to ruminant animal nutrition. Prerequisites: RWSC 3328.

5390. Advanced Studies in Plant and Soil Science. 3(3-0)
Material offered is determined by the needs of the students. May be repeated under a different topic.

5395. Advanced Problems in Plant and Soil Science. V:1-3
Independent work that may include a laboratory or field problem. Variable credit dependent upon the problem; may be repeated for a total of 3 semester hours for Plan I or 6 semester hours for Plan II or Plan III students. Prerequisite: approval of a faculty member who will supervise the problem.

RANCH MANAGEMENT (RAMT)

5305. Graduate Research Project. 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5350. Practicum in Ranch Management. 3(3-0)
Students apply tools and techniques learned in other courses to current issues facing the ranching industry. Course requires on ranch study of these current problems integrating tool and techniques learned in other courses using a systems approach.

5351. Systems Approach to Natural Resource Problem Solving. 3(3-0)
Concept of system dynamics applied to solving natural resource management issues. Intensive application of system dynamics approaches and applied application to ranch and wildlife management and other disciplines.

5352. Advanced Ranch Planning and Analysis. 3(3-0)
An interdisciplinary approach to ranch management. Includes finance, managerial accounting, management information systems and natural resource monitoring.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **AGBU 4325.** Rangeland Resource Economics. **AGBU 4350.** Agricultural Finance. **AGBU 4360.** Agricultural Price Analysis. **AGBU 4370.** Food Logistics Management. **AGRI 4363.** Nutritional Biochemistry. **AGSC 4353.** Agricultural Building Requirements. **AGSC 4361.** Methods, Materials, Techniques and Classroom Management. **AGSC 4666.** Student Teaching in Agricultural Science and Technology. **PLSS 4313.** Landscape Maintenance and Construction. **PLSS 4325.** Plant Breeding and Genetics. **PLSS 4327.** Plant Soil Water Relations. **PLSS 4328.** Plant Disease and Pest Control. **PLSS 4329.** Soil Fertility and Plant Nutrition. **PLSS 4331.** Greenhouse Crop Production. **PLSS 4390.** Studies in Plant and Soil Science.

ANIMAL AND WILDLIFE SCIENCES

William P. Kuvlesky, Jr., *Graduate Coordinator*

Support Services Building Room 116. MSC 156. Extension 3712.

william.kuvlesky@tamuk.edu

Graduate Faculty: Bart M. Ballard, Leonard A. Brennan, Frederick C. Bryant, Tyler A. Campbell, Susan M. Cooper, James Derr, Charles A. DeYoung, Randall W. DeYoung, Alan M. Fedynich, Timothy E. Fulbright, Edward O. Garbon, Michelle R. Garcia, Scott E. Henke, Fidel Hernandez, David G. Hewitt, William P. Kuvlesky, Jr., Steven D. Lukefahr, J. Alfonso Ortega-Santos, G. Allen Rasmussen, Randy L. Stanko, Michael E. Tewes

Associate Member: Doreen H. Kinkel

The Department of Animal and Wildlife Sciences offers Master of Science degrees in Animal Science and Range and Wildlife Management. The department also offers the Doctor of Philosophy in Wildlife Science.

Research projects in Animal Science have involved, but are not limited to, nutrition, reproductive physiology, immunology and quantitative genetics.

Research projects in Wildlife Science have involved a variety of topics on game and nongame wildlife, habitat management, disease issues, natural history and basic theoretical aspects of wildlife ecology and management. Faculty from the Caesar Kleberg Wildlife Research Institute are recognized internationally for their contributions to natural resource management.

Potential graduate students are advised to write the Department for current information on program and opportunities.

ANIMAL SCIENCE (ANSC)

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5307. Physiology of Mammalian Reproduction. 3(3-0)

Comprehensive in-depth study of reproductive physiology and endocrinology with primary emphasis on domestic and laboratory animals. Prerequisites: ANSC 3313/BIOL 3408 or equivalent, and 9 semester hours of chemistry/biochemistry.

- 5333. Mammalian Endocrinology.** 3(3-0)
Survey of the endocrine system including endocrine glands and hormones that regulate energy metabolism, water and electrolyte balance, growth and reproduction. Prerequisites: ANSC 4303 or equivalent and 9 semester hours of chemistry/biochemistry.
- 5335. International Animal Agriculture.** 3(3-0)
Students will acquire practical knowledge on international trends and developments in animal agriculture production, on small livestock as an increasingly important global source of food and on how to design and execute projects targeted at the rural poor.
- 5336. Environmental Physiology of Animals.** 3(3-0)
Principles of domestic animal and wildlife adaptation to tropical and sub-tropical environments. Areas of emphasis will include bioclimatology, physiological temperature regulation mechanisms and nutritional, reproductive and genetic adaptation. Prerequisite: ANSC 4303 or equivalent.
- 5337. Ruminant Nutrition and Physiology.** 3(3-0)
Anatomy, physiology, microbiology and nutrient metabolism of the rumen. Prerequisites: ANSC 4307 and CHEM 2421 or equivalents.
- 5338. Monogastric Nutrition.** 3(3-0)
Digestion and absorption of nutrients in monogastrics to include human, poultry and swine. Emphasis on vitamin and trace mineral nutrition. Prerequisites: ANSC 4307 and CHEM 2421 or equivalents.
- 5351. Advanced Range Livestock Production.** 3(3-0)
Interdisciplinary course studying modern beef cattle production, breeding genetics, reproductive physiology, nutrition and economics.
- 5390. Advanced Studies in Animal Science.** 3
Material offered is determined by the needs of the students. Laboratory and lecture vary according to the subject needs. May be repeated once under a different topic.
- 5395. Advanced Problems in Animal Science.** V:1-3
Independent work that may include a laboratory or field problem. Variable credit dependent upon the problem; may be repeated for a total of 6 semester hours. Prerequisite: approval of a faculty member who will supervise the problem.

6335. Quantitative Genetics. 3(3-0)
Quantitative methodologies for altering the genetic properties and/or achieving genetic progress in domesticated and natural animal and plant populations. Application of genetic software packages.

RANGE AND WILDLIFE MANAGEMENT (RWSC)

Graduate students in Range and Wildlife Management may take Ph.D. courses for graduate credit. These courses are listed under *Doctoral Programs in Agriculture* later in this catalog.

5305. Graduate Research Project.

3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis.

3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **ANSC 4303.** Anatomy and Physiology of Domestic Animals. **ANSC 4307.** Animal Nutrition. **RWSC 4319.** Methods in Rangeland Ecology. **RWSC 4382.** Large Mammal Ecology and Management. **RWSC 4383.** Ecology of Arid and Semiarid Lands.

HUMAN SCIENCES (HSCI)

William P. Kuvlesky, Jr., *Graduate Coordinator*

Support Services Building Room 116. MSC 156. Extension 3712.

william.kuvlesky@tamuk.edu

Graduate Faculty: Farzad Deyhim, Kathleen Rees

Associate Member: Anna P. McArthur

The Master of Science in Human Sciences Degree provides advanced study in selected conceptual areas and is designed to enhance knowledge and skills of human sciences professionals employed in teaching, Cooperative Extension, nutrition/dietetics, human services and administration. A student whose bachelor's degree is not in a human sciences specialization may be required to complete a qualifying examination. The student may also be required to complete undergraduate courses (or stem work). The student's advisory committee will make recommendations and approve supporting course work in other areas when appropriate. With approval, students may transfer up to 6 hours of graduate work from another accredited university.

Students have the option of completing a Plan I thesis program or Plan II or III research project program. The Plan I thesis program requires satisfactory completion of a minimum of 30 credit hours of graduate work, including 6 credit hours of thesis. The Plan II research project program requires satisfactory completion of a minimum of 36 credit hours of graduate work, including a 3 credit hour special problems course that results in preparation of a research paper shorter than a thesis. All students, whether completing Plan I, Plan II or Plan III, must satisfactorily complete 3 semester hours of graduate level statistics and 3 semester hours of graduate level research methods. With approval of the graduate advisor, students may select graduate hours from a supportive area to augment their degree program, depending upon their academic and career goals. Supporting subject matter fields may

include (but are not limited to) psychology, sociology, curriculum and instruction, educational administration and educational research.

The Dietetic Internship is accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, phone 312/899-0040, extension 5500. Students who have a four year degree and a verification statement from a Didactic Program in Dietetics (DPD) can apply to the Texas A&M University-Kingsville DI/MS program. Applicants with a master's degree can be accepted into the internship.

Interns accepted into the program must demonstrate commitment to completing a master's degree. Preference will be given to applicants who express the goal of obtaining a Master of Science in Human Sciences at Texas A&M University-Kingsville and a desire to work in South Texas after graduating. The Dietetic Internship Program provides 18 graduate credit hours that may be applied toward completion of the Master of Science in Human Sciences at the discretion of the graduate committee. For additional information regarding the Dietetic Internship/Master of Science in Human Sciences Program please contact the Dietetic Internship Director, Department of Human Sciences, Texas A&M University-Kingsville, 700 University Blvd., MSC 168, Kingsville, TX 78363; phone 361/593-2211.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5310. Problems in Human Sciences. V:1-3

Guided independent study in one of the program areas in human sciences. Prerequisite: consent of department chair.

5312. Administration and Supervision of Human Sciences Programs. 3(3-0)

Practices and procedures in administration and supervision of human sciences programs; identification of performance standards; exploration of theories of leadership; appraisal of individual growth and achievement in all subject areas of human sciences; study of state and federal laws affecting human sciences programs.

5313. Curriculum Development in Human Sciences. 3(3-0)

Philosophy and curriculum development in human sciences programs, including, but not limited to, postsecondary and adult education, nursery and pre-school education, secondary education (including junior high and middle schools) and community education.

- 5320. Theories of Human Development.** 3(3-0)
Examination of theories and research related to human development from birth through the life span, within a family context. Emphasis on physical, social, emotional, cognitive and psychological growth with attention given to the development of personal and interpersonal competency.
- 5321. Family Life Education.** 3(3-0)
General philosophy and broad principles of family life and parenthood education, emphasizing planning, developing, implementing and evaluating such programs.
- 5322. Socioeconomic Problems of Families.** 3(3-0)
Survey of the interrelationship of social and economic forces impacting the quality of life of families. Concepts covered include divorce, unemployment, work/family responsibilities, child care, elder care.
- 5323. Aging and the Family.** 3(3-0)
An examination of family kinship patterns in later life; relationships with spouse, adult children and siblings. Emphasis on the enhancement of development and family life in later years. Concepts include intergenerational issues, independence, alternative living arrangements.
- 5350. Issues in Food and Nutrition Science.** 3(3-0)
Current trends and issues in human nutrition, focusing on interrelationships of nutrients in metabolism and their impact on health.
- 5351. Nutrition and Aging.** 3(3-0)
Study of the aging process and physiological changes with implications for food intake and utilization of nutrients.
- 5352. Nutritional Care Management I.** 3(3-0)
Advanced medical nutrition therapy. Includes principles and practical application of medical nutrition therapy and delivery of services to clientele with common and complex medical conditions. Topics include principles of diseases; development of care plans; enteral/parenteral nutrition, issues and formularies; principles of counseling; and menu writing. Prerequisite: enrollment in Dietetic Internship Program.
- 5353. Nutritional Care Management II.** 3(3-0)
Systems management of clinical and community nutrition services. Topics include leadership versus management; managed care; critical care pathways; outcomes research; grant writing; marketing and media; administrative proposals; business plans; and nutrition education of clientele with low-literacy skills. Prerequisite: enrollment in Dietetic Internship Program or permission of instructor.
- 5650. Practicum in Nutritional Care Management I and II.** V:3-6
Practical experience in applying nutritional care management principles in clinical, community and foodservice settings. Part-time Dietetic Internship students take 3 hours per semester; full-time students take 6 hours per semester. Students must complete a total of 12 graduate hours in HSCI 5650.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **HSCI 4310.** Occupational Family and Consumer Sciences. **HSCI 4311.** Professional Applications in Occupational Family and Consumer Sciences. **HSCI 4312.** Methods and Teaching Strategies in Family and Consumer Sciences. **HSCI 4323.** Administration of Programs for Dependent Care. **HSCI 4330.** Promotional Strategies in Merchandising. **HSCI 4333.** The Fashion Industry. **HSCI 4340.** Historic Structures and Interiors. **HSCI 4351.** Cultural and Community Aspects of Foods and Nutrition I. **HSCI 4352.** Cultural and Community Aspects of Foods and Nutrition II. **HSCI 4360.** Quantity Food Preparation and Management. **HSCI 4361.** Institutional Foodservice Management. **HSCI 4362.** Institutional Equipment and Facility Design. **HSCI 4366.** Advanced Institutional Foodservice Management.

MASTER'S PROGRAMS IN ARTS AND SCIENCES

The College of Arts and Sciences offers graduate programs with a major in Art, Biology, Chemistry, Communication Sciences and Disorders, English, History and Politics, Mathematics, Music Education, Psychology, Sociology and Spanish. Supporting fields and resource areas are available in all these fields as well as in Communications and Theatre Arts, French, Physics and Statistics (described under Mathematics).

ART (ARTS)

Charles Wissinger, *Graduate Coordinator*.
Bailey Art Building 100. MSC 157. Extension 2621.

Graduate Faculty: Santa C. Barraza

Associate Members: Todd Lucas, George Vargas

The Department of Art offers a Master of Science degree in studio art. This program is designed to provide the student with competency in a major studio area and includes a sufficient theoretical background to provide a foundation for professional development. The degree combines 27 hours in studio courses with 6 hours of topics and 3 hours of research. This degree serves to refine the skills and directions of elementary and secondary art teachers and as a preparatory program for those aspiring to seek terminal degrees.

5300. Graduate Drawing. 3(2-4)
The development and execution of advanced problems in drawing. May be repeated for credit. Studio fee, \$20.

5305. Graduate Research Project. 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5310. Graduate Painting. 3(2-4)
The development and execution of advanced problems in painting. May be repeated for credit. Studio fee, \$20.

5320. Graduate Sculpture. 3(2-4)
The development and execution of advanced problems in sculpture. May be repeated for credit. Studio fee, \$20.

- 5330. Graduate Printmaking.** 3(2-4)
The development and execution of advanced problems in printmaking. May be repeated for credit. Studio fee, \$20.
- 5335. Art in History.** 3(3-0)
In-depth study of art as it has appeared in historical cultures.
- 5336. Contemporary Art.** 3(3-0)
In-depth study of art as it appears in contemporary culture.
- 5340. Graduate Ceramics.** 3(2-4)
The development and execution of advanced problems in ceramics. May be repeated for credit. Studio fee, \$20.

BIOLOGICAL AND HEALTH SCIENCES

Enrique Massa, *Graduate Coordinator-Biology.*

Biology-Earth Sciences Building 204B. MSC 158. Extension 4118.

Shari S. Beams, *Graduate Coordinator-Communication Sciences and Disorders*

Manning Hall 100. MSC 178. Extension 3493.

Graduate Faculty: Angel Ball (*Communication Sciences and Disorders*), Jon A. Baskin (*Biology*), Shari S. Beams (*Communication Sciences and Disorders*), Thomas A. Fields (*Communication Sciences and Disorders*), Cynthia M. Galloway (*Biology*), Enrique Massa (*Biology*), Stephen D. Oller (*Communication Sciences and Disorders*), Rafael Perez-Ballesterro (*Biology*), Glenn H. Perrigo (*Biology*)

BIOLOGY (BIOL)

The Department of Biological and Health Sciences offers a Master of Science degree in Biology. The Plan I program is research-oriented and requires completion of a thesis. This program is for students who plan to pursue a Ph.D. or who want research experience. The Plan II program is content-oriented, and a shorter research problem is required. This program is for those needing more background in formal course work. The prerequisites for unconditional admission are a grade point average of 3.0 on a 4.0 scale and a Graduate Record Examination (quantitative plus verbal) score of 900. Additional information is provided in the *Biology Graduate Handbook*, which may be obtained from the Graduate Coordinator or Department Chair.

A variety of research projects are available: a student can select a field or a laboratory oriented project. Fiscal support for qualified graduate students is available through scholarships, research assistantships and teaching assistantships. Many research projects are funded through federal and private sources.

- 5102. Research Problems I.*** 1(1-0)
Individual problems assigned, defined and supervised by a Biology graduate faculty member with permission of the department chair. Provides experience in individual design, execution and reporting of small units of research of professional caliber.

- 5104. Graduate Seminar.** 1(1-0)
An advanced study of biological literature and research with critical class reports. May be repeated twice for credit.
- 5202. Research Problems II.*** 2(2-0)
Individual problems assigned, defined and supervised by a biology graduate faculty member with permission of the department chair. Provides experience in individual design, execution and reporting of small units of research of professional caliber.
- 5301. Research Methods in Biology.** 1(1-0)
Required of all majors entering graduate work in biology.
- 5302. Topics in Biology.** 3(3-0)
Lectures in selected topics. May be repeated for credit once under a different topic. Prerequisites: 12 semester hours of biology or equivalent.
- 5305. Graduate Research Project.** 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.
- 5306. Thesis.** 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5316. Advanced Biological Concepts.** 3(3-0)
A study of traditional biological phenomena using modern research techniques. Cell, organismal and population biology will be analyzed with an emphasis on molecular and evolutionary concepts. Prerequisite: graduate standing in biology.
- 5318. Investigations in Biology.** 3(3-0)
Investigations and research at the graduate level in selected advanced topics. May be repeated under different topics. Required of all Plan II candidates under an appropriate topic. No more than 6 semester hours can be applied as credit toward the degree. The A&M-Kingsville graduate credit workshop taught at the Welder Wildlife Refuge is included under this course number.
- 5320. Research Problems III.*** 3(3-0)
Individual problems assigned, defined and supervised by a biology graduate faculty member with permission of the department chair. Provides experience in individual design, execution and reporting of small units of research of professional caliber.
- 5401. Molecular Biology.** 4(3-3)
Modern concepts and lab techniques in molecular biology. Fundamental principles and important new processes in the use of molecular techniques to address biological problems. The laboratory portion will introduce basic and advanced molecular techniques.

Prerequisite: graduate standing in the sciences, agriculture or engineering. Laboratory fee, \$6.

5402. Advanced Topics in Biology.

4(3-4)

Lectures, literature, investigation and research at the graduate level in selected advanced topics. May be repeated for credit under different topics. Laboratory fee, \$6.

COMMUNICATION SCIENCES AND DISORDERS (CSDO)

Students who wish to enroll in the Graduate Program in Communication Sciences and Disorders (CSDO) must present evidence of completion of an undergraduate major in Speech-Language Pathology or completion of all undergraduate courses required of an undergraduate major in Speech-Language Pathology. Also, a basic course in statistics is required. Three letters of recommendation from professionals in Speech-Language Pathology who are familiar with the student's academic and/or clinical skills are also required. Grade point average and GRE scores are part of the evaluation for admission to the graduate program. The deadline for receipt of all application materials for consideration for fall admission is February 1st. The deadline for receipt of all application materials for consideration for spring admission is October 1st.

The M.S. in Communication Sciences and Disorders is offered as a thesis (Plan IB) or nonthesis (Plan III) option. A minimum of 400 clock hours of clinical practice, 325 of which must be on the graduate level, is required. This graduate program will prepare students to function in a variety of clinical settings. The program is accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association (ASHA).

Students may be required to obtain a Criminal Background Check (CBC) either as part of the admissions process or prior to placement in certain externship sites. Students should also be advised that the Texas State Board of Examiners for Speech-Language Pathology and Audiology may deny a license to an applicant because of conviction for a felony or misdemeanor if the crime directly relates to the professional duties of a speech-language pathologist or audiologist.

5301. Research in Communication Sciences and Disorders.

3(3-0)

Major methods of research used in the various areas of communication sciences and disorders. Each student is responsible for the successful completion of a research project. Prerequisite: PSYC 3381; permission of instructor/graduate standing.

5303. Motor Speech Disorders.

3(3-0)

Disorders of speech with a neuromuscular basis found in children and adults, including motor-based articulation disorders, stuttering, voice disorders, the dysarthria and cerebral palsy. Prerequisite: permission of instructor/graduate standing.

5305. Graduate Research Project.

3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

- 5306. Thesis.** 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5307. Diagnostics.** 3(3-0)
Advanced study of diagnostic techniques and specific testing instruments utilized in the evaluation of communication disorders. Prerequisite: permission of instructor and completion of a minimum of 25 observation hours.
- 5308. Aphasia.** 3(3-0)
Etiology, symptomatology, assessment and therapeutic techniques for effective treatment of neurologically based disorders including aphasia, closed head injury and dysphagia. Prerequisite: permission of instructor/graduate standing.
- 5309. Fluency Disorders.** 3(3-0)
The study of various theories, research findings, rationales and methodologies for evaluation and treatment of dysfluency in children and adults. Prerequisite: permission of instructor/graduate standing.
- 5311. Graduate Clinical Practicum.** 3(3-0)
Supervised clinical experience with communicatively handicapped individuals. Involves application of diagnostic, prescriptive and therapeutic techniques. Enrollment required for on-campus practicum. Prerequisites: permission of instructor/graduate standing and completion of a minimum of 25 observation hours. Laboratory fee, \$5. Credit/Noncredit.
- 5312. Contemporary Issues.** 3(3-0)
Examination of current issues and trends. Topics to be announced on a semester basis. May be repeated for credit once if topic changes. Prerequisite: permission of instructor.
- 5314. Aural Rehabilitation/Habilitation.** 3(3-0)
Effects of hearing impairment. Hearing aids and assistive devices as integrated into a treatment program including speech reading and auditory training. Prerequisite: CSDO 3313; permission of instructor.
- 5315. Advanced Audiology.** 3(3-0)
Advanced audiological concepts and their applicability to instrumentation and educational procedures utilized in the habilitation and/or rehabilitation of the hearing impaired. Includes discussions of Central Auditory Processing Disorders, testing special populations, use and selection of assistive listening devices and advanced practicum techniques. Prerequisite: CSDO 5314; permission of instructor.

- 5316. Dysphagia.** 3(3-0)
The study of oral-pharyngeal swallowing disorders, including anatomical and physiological basis for swallowing disorders, assessment and treatment. Prerequisite: permission of instructor.
- 5318. Articulation and Phonological Disorders.** 3(3-0)
An advanced course in the study of phonology: the sound system of language, including pauses and stress. Prerequisite: permission of instructor.
- 5320. Child Language Disorders.** 3(3-0)
Advanced study in the assessment of, and intervention for, childhood language disorders. Prerequisite: permission of instructor.
- 5322. Neuroscience in Communication Disorders.** 3(3-0)
The study of neuroanatomy and neurophysiology and its relation to speech, language, hearing and their disorders. Prerequisite: permission of instructor.
- 5324. Independent Study in Communication Sciences and Disorders.** V:1-3
Individual study of specific problems in speech-language pathology. Attention to individual needs of the student. This course is repeatable for credit and can be taught by different faculty covering different topics. Prerequisite: permission of instructor. Credit/Noncredit.
- 5326. Advanced Clinical Methods.** 3(3-0)
Clinical techniques and strategies for teaching appropriate communicative behaviors. Specific therapy techniques for a wide range of communication disorders.
- 5328. Practicum Externship.** V:1-3
Field placement. Assessment and management of clients with speech, language and hearing disorders in an externship site under supervision of ASHA certified supervisors. Prerequisites: 3.0 graduate GPA, completion of 50 on-campus clinical contact hours and permission of instructor. Credit/Noncredit.
- 5330. Bilingual/Bicultural Issues in Communication Sciences and Disorders.** 3(3-0)
Study of current theories of bilingual/bicultural speech-language acquisition, differences and disorders/deficits. Assessment techniques and intervention strategies for detection of disorders/deficits in bilingual/bicultural individuals. Prerequisites: permission of instructor/graduate standing.
- 5410. Voice and Resonance Disorders.** 4(4-0)
The study of the etiology, diagnosis and treatment of disorders of voice and resonance. Prerequisite: permission of instructor/graduate standing.

**These three courses may be repeated; any two or all three can be taken simultaneously so that from 1 to 6 semester hours total credit can be carried per*

semester in Research Problems. A maximum of 3 semester hours may be accumulated toward the minimum hours for graduation. See Plan I for limitations.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **BIOL 4402.** Vertebrate Embryology. **BIOL 4406.** Bacteriology. **BIOL 4408.** Immunology. **BIOL 4425.** Ornithology. **BIOL 4426.** Cellular Physiology. **BIOL 4427.** Herpetology. **BIOL 4429.** Mammalogy. **BIOL 4430.** Parasitology. **BIOL 4431.** Ichthyology. **CSDO 4223.** Clinical Practice in Speech/Language Pathology. **CSDO 4321.** Articulatory and Phonological Disorders.

CHEMISTRY (CHEM)

Nicholas R. Beller, *Graduate Coordinator*

Nierman Science Hall 109. MSC 161. Extension 2667.

Graduate Faculty: Nicholas R. Beller, Sajid Bashir, Apurba Bhattacharya, Mauro Castro, Maribel Gonzalez-Garcia

Associate Members: Xiaoliu Chi, Jingbo L. Lin, Greg Moehring

The Department of Chemistry offers a Master of Science degree. Requirements for admission are (a) a grade point average of 3.0 on a 4.0 scale and a satisfactory score on the GRE Aptitude Test (a TOEFL score of 525 when applicable); (b) 20 hours of approved undergraduate chemistry, including 12 advanced; (c) 8 hours of approved physics and 6 hours of calculus. Students not satisfying these requirements may be admitted conditionally. The department, in examining the applicant's prerequisites, may accept equivalent hours or require additional work. An entering graduate student is normally subjected to four placement examinations in organic, inorganic, analytical and physical chemistry that are used for advising the student's beginning course work.

5130. Graduate Chemistry Seminar. 1(1-0)
Provides an understanding of the experimental procedures used by authors, helps students develop a critical mind when reading scientific papers and provides them with practice in presenting research work in front of an audience. This training is essential for the education of master's and doctoral students. May be repeated for a total of 3 SCHs. Prerequisites: CHEM 3125, CHEM 3325.

5301. Chemical Instruments, Advanced. 3(2-4)
Principles and practices in design of instruments for research, analysis and process control. Prerequisite: CHEM 4401. Laboratory fee, \$5.

- 5303. Advanced Analytical Chemistry.** 3(3-0)
An advanced survey of principles of chemical analysis with emphasis on newer developments in the field of analytical chemistry. Prerequisite: CHEM 4401.
- 5305. Graduate Research Project.** 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.
- 5306. Thesis.** 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5311. Structural Inorganic Chemistry.** 3(3-0)
The structure of inorganic compounds, especially complex compounds and theories that account for the structure and other properties on the basis of bonding. Prerequisite: CHEM 4311.
- 5321. Organic Preparations.** 3(0-9)
Preparation of several different classes of compounds with emphasis on multi-step syntheses and synthetic techniques. Conferences with the instructor. Prerequisites: CHEM 3323/3123, CHEM 3325/3125. Laboratory fee, \$5.
- 5323. Advanced Organic Chemistry.** 3(3-0)
An advanced treatment of organic chemistry including a study of both cyclic and acyclic compounds. Prerequisites: CHEM 3323/3133 and CHEM 3325/3125.
- 5324. Designing Organic Syntheses.** 3(3-0)
A one-semester course that reviews the syntheses of increasingly complex molecules and the retrosynthetic strategies used to develop the synthetic schemes. Required development of a synthetic plan for a structure taken from the recent literature. Prerequisites: CHEM 3325, CHEM 5323.
- 5325. The Chemistry of Natural Products.** 3(3-0)
A one-semester course that provides an introduction to the broad field of natural products chemistry by reviewing the major classes of natural products in terms of isolation, structure, properties, synthesis and physiological importance where applicable. Prerequisite: CHEM 3325.
- 5326. Heterocyclic Chemistry.** 3(3-0)
A one-semester course that provides an introduction to the broad field of heterocyclic chemistry by reviewing the major classes of heterocyclic compounds in terms of nomenclature, structure, properties, preparations, reactions and physiological importance where applicable. Prerequisite: CHEM 3325.

- 5327. Advanced Organic Synthesis.** 3(3-0)
An in-depth survey of modern synthetic reactions in the areas of carbon-carbon single and double bond formations and cycloaddition reactions. Prerequisites: CHEM 3125, CHEM 3325.
- 5328. Physical Organic Chemistry.** 3(3-0)
A one-semester course that provides an in-depth survey of molecular orbital theory in a thorough and rigorous manner and emphasizes the molecular orbital interpretation of various types of concerted pericyclic reactions. Prerequisites: CHEM 3125, CHEM 3325.
- 5329. Asymmetric Synthesis.** 3(3-0)
An in-depth survey of practical methods for the synthesis of enantiomerically pure organic compounds in agrochemical and pharmaceutical industries and in university research laboratories. Prerequisites: CHEM 3125, CHEM 3325.
- 5331. Advanced Physical Chemistry.** 3(3-0)
Detailed investigation of modern and traditional approaches to the study of chemical reaction rates. Prerequisites: CHEM 3331, CHEM 3332, CHEM 4131, CHEM 4132.
- 5341. Biochemical Analysis of Proteins.** 3(3-0)
Biochemical study of proteins (methods of protein purification, principles of protein structure and the study of proteins as enzymes). Prerequisite: CHEM 4341.
- 5342. Biochemical Analysis of Gene Expression.** 3(3-0)
Biochemical study of nucleic acids and the expression of genetic information (nucleic acid structures and manipulation, transcription and translation). Prerequisite: CHEM 4341.
- 5351. Environmental Chemistry.** 3(3-0)
The advanced study of chemistry as the basis of the environmental regulations for air pollution, water pollution, solid/hazardous wastes, toxic commercial chemical products and employee safety.
- 5412. Special Topics in Chemistry.** V:1-4
A detailed study of special areas of chemistry featuring current advances and trends. Course may be repeated for a maximum of 6 semester hours. A laboratory may or may not be offered. Laboratory fee, \$5 when applicable.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **CHEM 4131-CHEM 4132.** Physical Chemical Measurements. **CHEM 4181.** Chemical Seminar. **CHEM 4311.** Advanced Inorganic Chemistry. **CHEM 4341.** Biochemistry I. **CHEM 4401.** Modern Methods of Instrumental Analysis. **CHEM 4421.** Advanced Chemical Synthesis.

COMMUNICATIONS AND THEATRE ARTS

The Department of Communications and Theatre Arts offers a supporting field for graduate majors. The student may have a supporting field in communications/journalism, communications/speech or theatre arts. An interdisciplinary supporting field among these areas is possible with permission of the department chair.

JOURNALISM (COMJ)

5303. Selected Topics in Mass Communication. 3(3-0)

Weekly reports and individual research papers. The course may be repeated once for credit when the topic changes.

SPEECH (COMS)

5301. Studies in Public Speaking. 3(3-0)

This course may be repeated under three different presentations: (1) Rhetorical Theory and Criticism; (2) Classical Oratory; (3) General Semantics.

5303. Research in Speech and Theatre Arts. 3(3-0)

To familiarize the graduate student with the courses or tools of research in the fields of speech and drama, their value and limitations and their proper use in graduate study. The course will enable the student to undertake independent research in the fields of speech and drama.

THEATRE ARTS (THEA)

5315. Advanced Studies in Theatre Arts. 3(3-0)

Studies in such areas of theatre arts as dramatic procedure, translation and theory. May be repeated once for credit as topics change.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **COMJ 4301.** History of Journalism. **COMJ 4322.** Public Relations. **COMM 4306.** Selected Topics in Communication. **COMM 4317.** Mass Media, the Public and the Law. **COMM 4391.** Independent Study in Communication. **COMS 4316.** Advanced Seminar in Speech Communication. **COMS 4331.** Readings in Speech Communication and Theatre Arts. **THEA 4302.** Play Direction. **THEA 4304.** Creative Drama. **THEA 4308.** Selected Topics in Theatre History and Criticism. **THEA 4331.** Readings in Speech Communication and Theatre Arts. **THEA 4392.** Independent Study in Theatre Arts.

HISTORY AND POLITICS

Shannon Baker, *Graduate Coordinator (History)*

Poteet Hall 242. MSC 166. Extension 3601.

Jim D. Phaup, *Graduate Coordinator (Political Science)*

Poteet Hall 304. MSC 165. Extension 3512.

Graduate Faculty: Shannon Baker (*History*), Mario Carranza (*Political Science*), Sonny B. Davis (*History*), Dean T. Ferguson (*History*), Nirmal Goswami (*Political Science*), Richard Hartwig (*Political Science*), Harry R. Huebel (*History*), Brenda Melendy (*History*), Jim D. Phaup (*Political Science*), Matthew C. Price (*Political Science*)

Associate Members: Michael S. Houf (*History*), Mary Mattingly (*Political Science*), Roger H. Tuller (*History*)

The joint History/Politics master's degree is a cooperative program by two departments, History and Political Science. A committee for the joint program is responsible for its general implementation and its policies. Graduate Degree Plans I and II are available to the students who will choose courses in one discipline for concentration and in the other discipline for auxiliary work. The prerequisite for all courses is departmental approval.

HISTORY (HIST)

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5312. Topics in European History. 3(3-0)

A seminar in European history with emphasis upon the development of a research project or projects. May be repeated for credit when the topic changes.

5320. Topics in Non-Western History. 3(3-0)

A seminar in Non-Western history with emphasis upon the development of a research project or projects. May be repeated for credit when the topic changes.

5330. Topics in American History. 3(3-0)

A seminar in American history; study of research methods, followed by the development of one or more research projects by each student and papers or reports on the projects. May be repeated for credit when the topic changes.

5346. Topics in Texas History. 3(3-0)
Selected topics in the history of Texas, 1519 to the present. Emphasis is placed upon the examination and evaluation of primary and secondary source material. May be repeated once for credit when the topic changes.

5350. Topics in Latin American History. 3(3-0)
A seminar in Latin American history with emphasis upon the development of a research project or projects. May be repeated for credit when the topic changes.

5365. Advanced Topics in History. V:1-3
Intensive investigation into selected topics of concern to advanced students of history and political science. May be repeated for credit when the topic changes. (May be taken either as HIST 5365 or as POLS 5300, but credit may be obtained for both only if the topics of study differ.)

5370. Advanced Problems in History. V:1-3
Independent research on selected problems of concern to advanced students of history and political science. May be repeated once for credit when the topic changes.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **HIST 4370.** Crucial Topics in European History. **HIST 4380.** Crucial Topics in United States History. **HIST 4392.** Crucial Topics in Latin American History. **HIST 4396.** Crucial Topics in Non-Western History.

POLITICAL SCIENCE (POLS)

5300. Advanced Topics in Political Science. V:1-3
Intensive investigation in selected topics of concern to advanced students of political science and history. May be repeated for credit when the topic changes. (May be taken either as POLS 5300 or as HIST 5365, but credit may be obtained for both only if the topics of study differ.)

5305. Graduate Research Project. 3
A Graduate Research Project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3
This course is for Plan I Students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5310. Topics in American Politics. 3(3-0)

Selected topics in American national government, state and local government, political behavior, urban politics, public law and judicial process. May be repeated for credit when the topic changes.

5320. Topics in Political Theory. 3(3-0)

Selected topics in ancient, medieval, modern and contemporary political theory. May be repeated for credit when the topic of study changes.

5340. Topics in Comparative and International Politics. 3(3-0)

Selected topics in comparative politics, international relations, foreign policy, international organization and international law. May be repeated for credit when topic changes.

5360. Topics in Public Administration and Public Policy. 3(3-0)

Selected topics in national, state and local public administration, public management and the formation of public policy. May be repeated for credit when the topic changes.

5380. Advanced Problems in Political Science. V:1-3

Independent research in selected topics of concern to advanced students of political science and history. May be repeated once for credit when the topic changes.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **POLS 4311.** Voting Behavior and Public Opinion. **POLS 4312.** Interest Groups and Political Parties. **POLS 4313.** The President and Congress. **POLS 4314.** State and Local Government and Administration. **POLS 4315.** Urban Politics. **POLS 4331.** Constitutional Law. **POLS 4332.** Constitutional Law. **POLS 4333.** The American Judicial Process. **POLS 4342.** International Organization. **POLS 4351.** The Government and Politics of East Asia. **POLS 4353.** The Government and Politics of Russia and the Former Soviet States. **POLS 4354.** The Government and Politics of Latin America. **POLS 4355.** The Government and Politics of Mexico. **POLS 4361.** Public Administration. **POLS 4363.** Policy and Policy-Making in the United States. **POLS 4364.** Women and Politics. **POLS 4370.** Special Studies in Political Science.

LANGUAGE AND LITERATURE

David H. Sabrio, *Graduate Coordinator (English)*

Fore Hall 207C. MSC 162. Extension 2387.

Jacqueline Thomas (French)

Fore Hall 101. MSC 162. Extension 2379.

Michelle Johnson Vela, *Graduate Coordinator (Spanish)*

Fore Hall 205C. MSC 162. Extension 2597.

Graduate Faculty: Cathy Downs (*English*), Michelle Johnson Vela (*Spanish*), Emil A. Mucchetti (*English*), Susan Roberson (*English*), Pilar Rus (*Spanish*), David H. Sabrio (*English*), Jacqueline Thomas (*French*)

Associate Member: Roberto Vela Cordova (*Spanish*)

The Department of Language and Literature offers majors and supporting fields for Plan I and Plan II leading to the Master of Science and Master of Arts degrees in English as well as a Master of Arts degree in Spanish. Teaching assistantships are available for students with 18 or more hours of graduate course work in their content area.

For English degrees, courses are offered in literature, rhetoric/composition and linguistics. Twelve semester hours of advanced English are ordinarily required for admission; students with fewer may be admitted on condition; stemwork will then be required.

Core English courses: ENGL 5300; one course in rhetoric/composition or linguistics; one course in pre-1800 literature; one course in post-1800 literature.

Students who have been accepted into the doctoral program in English at Texas A&M University or Texas A&M-Commerce may take up to 18 hours at A&M-Kingsville (not including ENGL 5300) for transfer to A&M or A&M-Commerce.

For Spanish degrees, courses are offered in literature, linguistics and cultural studies. Twelve semester hours of advanced Spanish at the undergraduate level are ordinarily required for admission; students with fewer hours may be admitted conditionally; stemwork will then be required.

Core Spanish courses: Every student is required to take SPAN 5301; SPAN 5321 or SPAN 5322; SPAN 5350; and SPAN 5360, selected in consultation with the adviser.

The department offers a supporting field in French.

ENGLISH (ENGL)

5300. Research Methods.

3(3-0)

Methods of research in literature, linguistics and rhetoric and composition. Must be taken by all graduate English majors and supporting fields during the first year they are enrolled.

Prerequisite: 12 semester hours of advanced English.

5301. Topics in Rhetoric and Composition. 3(3-0)

Study of a specific topic in the art of writing and/or in the teaching of that art. May be repeated when a different topic is scheduled. Prerequisite: 12 semester hours of advanced English.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5310. Topics in Linguistics. 3(3-0)

Study of a specific topic in descriptive, contrastive, variational, or historical linguistics. May be repeated when a different topic is scheduled. Prerequisite: 12 semester hours of advanced English or equivalent.

5320. Topics in British Literature. 3(3-0)

Study of an author, literary period or other specific topic in British literature. May be repeated when a different topic is scheduled. Prerequisite: 12 semester hours of advanced English.

5360. Topics in American Literature. 3(3-0)

Study of an author, literary period or other specific topic in American literature. May be repeated when a different topic is scheduled. Prerequisite: 12 semester hours of advanced English.

5370. Special Topics in Literature. 3(3-0)

Study of a specific topic in literature written in or translated into the English language. May be repeated when a different topic is scheduled. Prerequisite: 12 semester hours of advanced English.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced courses, descriptions of which are found in the undergraduate catalog, have been approved by the Graduate Council and may be offered for graduate credit: **ENGL 4311.** English Grammar and Usage. **ENGL 4322.** British Literature of the Middle Ages. **ENGL 4325.** Literature of the British Renaissance. **ENGL 4327.** Restoration and Eighteenth-Century British Literature. **ENGL 4331.** The Major Plays of Shakespeare. **ENGL 4341.** Studies in the British Novel. **ENGL 4343.** Nineteenth-Century British Literature. **ENGL 4346.** Twentieth-Century British Literature. **ENGL 4361.** Studies in the American Novel. **ENGL 4365.** Colonial and Nineteenth-Century American Literature. **ENGL 4366.** Twentieth-Century American

Literature. **ENGL 4370.** Special Topics in Literature or Language. **ENGL 4384.** Studies in Drama.

FRENCH (FREN)

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **FREN 4301.** Advanced Written and Oral Composition. **FREN 4310.** Selected Topics in French Civilization and Literature.

SPANISH (SPAN)

5300. Topics in Spanish. 3(3-0)
Research methods in the field of Spanish linguistics or culture. Topics: History of the Language, Dialectology, Spanish of the Southwest, etc. May be repeated when the topic changes. Prerequisite: 12 semester hours of advanced Spanish.

5301. Research Methods. 3(3-0)
Orientation to critical proficiency and tools in literary theory, cultural studies approaches and linguistics methods necessary for conducting research in the resolution of problems relevant to study of the topic selected. Demonstration of research skills and resources, including development of a research bibliography, and writing a research essay of a quality approaching that necessary for publication. Prerequisite: 12 semester hours of advanced Spanish.

5305. Graduate Research Project. 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5310. Hispanic Feminist Theory and Writing. 3(3-0)
Analysis of Hispanic women's discourse as power struggle for the elaboration of feminist politics of reason, feminist politics of passion, feminist politics of action and political feminist consciousness. Critical analysis of women's writings as production and reproduction of cultural formations of historically situated and gender-specific discursive subjects. Prerequisite: 12 semester hours of advanced Spanish.

5311. Hispanic Film Studies. 3(3-0)
Study of Latin-American, US Latino and Spanish film and multimedia as historical and cultural imagine(e)-active rediscoveries and reconstructions of the Hispanic peoples and their worlds. Readings and discussion on the articulation between history, film, multimedia

and the production-consumption of image cultures in the Hispanic world. Prerequisite: 12 semester hours of advanced Spanish.

5320. Topics in Spanish Peninsular Literature. 3(3-0)
Study of an author, literary period or other specific topics in Spanish Peninsular literature, such as Poetry, *El Quijote*, Golden Age Drama, Galdós, Romanticism, Short Story, Masterpieces. May be repeated when the topic changes. Prerequisite: 12 semester hours of advanced Spanish.

5321. 19th Century Spanish Peninsular Novel. 3(3-0)
Study of the most important literary movements, authors and works of the 19th century in the novel, in particular Realism. This course or SPAN 5322 must be taken by all graduate Spanish majors. Prerequisite: 12 semester hours of advanced Spanish.

5322. 20th Century Spanish Peninsular Novel. 3(3-0)
Study of important literary movements, authors and works of the century in the novel, in particular the Generation of 1898, or the novel of the post-Spanish Civil War. This course or SPAN 5321 must be taken by all graduate Spanish majors. Prerequisite: 12 semester hours of advanced Spanish.

5350. Hispanic Cultural Studies. 3(3-0)
Interpretation of Hispanic cultures of politics, Hispanic signifying practices, Hispanic cultural studies and Hispanic culture. Critical analysis of the interactions among high culture, mass media and popular culture; their institutions, subjectivities, ideologies and gender roles. May be repeated when topic changes. Prerequisite: 12 semester hours of advanced Spanish.

5360. Studies in Spanish-American Literature. 3(3-0)
Analysis of Andean Narrative, Caribbean Narrative, Mexican Novel, Southern Cone Narrative, Romanticism, Modernism, Regionalism, Existentialism, Structuralism, Magical Realism, Contemporary Literature, Essay, Poetry, Short Story and Theater. May be repeated when topic changes. Prerequisite: 12 semester hours of advanced Spanish.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate course has been approved by the Graduate Council for graduate credit: **SPAN 4320**. Topics in Spanish Literature.

MATHEMATICS

Stephen Sedory, *Graduate Coordinator*
Rhode Hall 276. MSC 172. Extension 3515.

Graduate Faculty: Reza Ahangar, Ralph L. Bingham, Louis Thurston, Rongdong Wang

The Department of Mathematics offers courses leading to the Master of Science degree. This program is designed to provide the student with competency in the major areas of mathematical application and includes a sufficient theoretical background to provide a

foundation for professional development. A student entering the program is expected to have completed at least 6 semester hours of advanced mathematics beyond multivariate calculus and differential equations.

Graduate level courses in statistics are designed to constitute a supporting field, supplementing graduate students' courses of study in their major areas. No degree is offered in Statistics.

MATHEMATICS (MATH)

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5321. Real Analysis. 3(3-0)

Lebesgue integration and Lebesgue measure. LP spaces. Differentiability properties of monotone functions.

5322. Complex Analysis. 3(3-0)

The complex field, topology of the complex plane, analytic functions, conformal mappings, power series, integration, residues.

5323. Partial Differential Equations. 3(3-0)

An introduction to the fundamental notions and/or methods in the theory of partial differential equations. Includes Fourier series, the wave equation, the potential equation and the heat equation.

5324. Functional Analysis. 3(3-0)

Metric spaces and their properties. Function spaces and mapping. Contraction mapping, existence and uniqueness theorems for differential equations. Selected topics from functional analysis: Stone-Weierstrass Theorem, semicontinuity, Banach spaces. Prerequisite: 12 semester hours of advanced mathematics including MATH 4321 or the equivalent.

5341. Abstract Algebraic Theories. 3(3-0)

Groups and their generalizations. Homomorphism and isomorphism theorem. Direct sums and products. Linear spaces and representations. Field extensions and Galois groups. Prerequisite: MATH 4340 or its equivalent.

5372. Advanced Mathematics for Physics and Engineering I. 3(3-0)
Complex variable methods, concepts of the theory of distributions, eigen-value problems in partial differential equations, special functions and finite-dimensional vector spaces. Prerequisites: 9 semester hours of advanced mathematics including MATH 3315 and MATH 3320 or the equivalent. Laboratory fee, \$5.

5373. Advanced Mathematics for Physics and Engineering II. 3(3-0)
Infinite-dimensional vector spaces, Green's functions, variational problems, traveling waves and perturbation methods. Prerequisite: MATH 5372 or the equivalent. Laboratory fee, \$5.

5390. Advanced Topics in Mathematics. V:1-3
Different areas of advanced mathematics with emphasis on rigor, critical reasoning and the concept of proof. May be repeated as topic changes.

5394. Special Topics in Mathematics. V:1-3
Topics in mathematics which are of interest to persons in diverse disciplines and occupations. May be repeated as topic changes. Not applicable for credit in the physical sciences, mathematics or engineering. Laboratory fee, \$5.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **MATH 4320.** Advanced Calculus. **MATH 4321.** Real Variables. **MATH 4340.** Modern Algebra. **MATH 4341.** Linear Algebra and Matrix Theory. **MATH 4342.** Algebraic Structures. **MATH 4370.** Vector Analysis. **MATH 4371.** The Laplace Transformation and its Applications. **MATH 4372.** Mathematics for Physics and Engineering I. **MATH 4373.** Applications of Matrix Methods. **MATH 4374.** Numerical Analysis.

STATISTICS (STAT)

5331. Statistical Computing. 3(3-0)
Provides the computer tools for modern research analysis. Introduction to use of computer and statistical software. Includes applications of SAS to data entry, experimental design, regression, surveys. Prerequisite: one statistics course or equivalent. Laboratory fee, \$5.

5343. Applied Regression Analysis. 3(3-0)
Multiple regression analysis, selecting the "best" regression equation, general model building, introductory linear models. Prerequisite: an advanced statistics course. Laboratory fee, \$5.

5345. Analysis of Research Data. 3(3-0)
Basic concepts and techniques for research including completely randomized design, factorial, randomized complete block, split-plot, Latin square and analysis of variance. Prerequisite: one statistics course. Laboratory fee, \$5.

5390. Advanced Topics in Statistics. 3(3-0)
Different areas of advanced statistics will be covered at separate offerings of this course. Topics include sampling techniques, multivariate analysis, quality control techniques. May

be repeated once. Prerequisite: 6 semester hours of advanced statistics or the equivalent. Laboratory fee, \$5.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **STAT 4301**. Biostatistics. **STAT 4303**. Statistical Methods. **STAT 4351**. Mathematical Theory of Statistics.

MUSIC (MUSI)

Paul M. Hageman, *Graduate Coordinator*
Bellamah Music Building 113. MSC 174. Extension 2806.

Graduate Faculty: Paul M. Hageman, Nancy KingSanders, Greg Sanders

Associate Member: Judith W. Cole

The Department of Music offers the Master of Music degree in Music Education with an 18-hour core curriculum and an 18-hour specialization in either Secondary Music Education (Vocal or Instrumental) or Elementary Music Education. All students will be required to take a graduate level entrance examination to determine correct course placement. In addition, students must take the GRE during their first semester of enrollment. All students are required to complete a research project of three hours of credit towards the degree, on a subject that relates to their teaching area (Plan III). The graduate research project may be in the format of a lecture recital if the student is performance oriented. The option of a more comprehensive research paper is available in the format of a Graduate Thesis (Plan I-B). Most of the graduate music courses are taught in an intensive three-week course format during summer school to accommodate music educators' schedules.

Core Curriculum, 18 hours:

MUSI 5301	MUSI 5305	MUSI 5309
MUSI 5318	MUSI 5350	MUSI 5394

Secondary Music Education Specialization-Instrumental, 18 hours:

MUSI 5312	MUSI 5316	MUSI 5368
MUSI 5376	MUSI 5398	<i>Either</i> MUSI 5390 or MUSA 5XXX Applied Lessons (total 3 hours)

Secondary Music Education Specialization-Vocal, 18 hours:

MUSI 5310	MUSI 5311	MUSI 5370
MUSI 5371	MUSI 5398	MUSA 5XXX Applied Lessons (total 3 hours)

Elementary Music Education Specialization, 18 hours:

MUSI 5371	MUSI 5372	MUSI 5373
MUSI 5374	EDED 5XXX (6 hours)	

5301. Introduction to Research in Music. 3(3-0)

The nature of research and scientific method, application to problem areas in fields of musicology, music education and music theory. Problem selection and definition. Specialized techniques for location, collection, qualification and treatment of data. Preparation of a research report.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5309. Musicology Seminar. V:1-3

Selected topics in music literature or theory. May be repeated when the topic of study changes.

5310. Vocal Literature. 3(3-0)

Survey of standard literature for solo voice from the Renaissance to the present within each voice classification through recordings and live performances. Development of curricular standards for assigning proper repertoire to applied students.

5311. Choral Literature. 3(3-0)

Survey of choral repertory from the Middle Ages to the present. Study of a composite repertoire of choral literature for different age groups through recordings and live performances. Development of curricular standards for programming and pedagogy for the choral conductor.

- 5312. History and Literature of the Wind Band.** 3(3-0)
Study of the historical development of the modern wind band and its precursors through a survey of the significant literature written for wind ensembles.
- 5316. Advanced Percussion Techniques.** 3(3-0)
Advanced pedagogy of percussion instruments for individual and ensemble performance. Development of marching and concert band percussion sections and percussion ensembles. In-depth study of the psychological, physical and creative aspects of teaching percussion along with a survey of important percussion materials and repertoire.
- 5318. Advanced Analysis.** 3(3-0)
Techniques of analysis and their applications to sonata, rondo, fugue, variation and related forms and procedures. Prerequisite: MUSI 4318.
- 5350. Music Technology.** 3(3-0)
General introduction to current computer and audio technologies and their uses in the music classroom. Music Graphics, Audio Editing, MIDI (Musical Instrument Digital Interface), Multi-media CAI (Computer Assisted Instruction) and Audio/Video Internet applications.
- 5368. Advanced Woodwind Techniques.** 3(3-0)
Pedagogical practices and materials for teaching woodwinds. Selection, adjustment care and repair of reeds with practice in making double reeds. Practical demonstration on the woodwind instruments.
- 5370. Vocal Pedagogy.** 3(3-0)
Teaching strategies for the development of vocal production, quality, classification, registration, range, anatomy and physiology. Study of vocal production as a science and application of such knowledge. Observation and evaluation of teaching demonstrations within the class by peers and instructor.
- 5371. Introduction to Dalcroze Eurhythmics.** 3(3-0)
Study of Eurhythmics as developed by Emile Jacques-Dalcroze in a practical laboratory setting, combining pedagogy and experience with lesson plan design.
- 5372. Introduction to Kodály Method.** 3(3-0)
Basic techniques, strategies and materials associated with the Kodály Method. Examine goals and processes of Kodály Method related to singing, movement, inner hearing and musical literacy.
- 5373. Orff Schulwerk Level I Pedagogy.** 3(3-0)
Basic techniques, strategies and materials. Explore the use of rhythmic speech, ostinato, pentatonic melodies, bordun accompaniments, instrumentarium and elemental forms. Prerequisite: MUSI 4330 or equivalent inservice training experience.
- 5374. Orff Schulwerk Level II Pedagogy.** 3(3-0)
Explore the use of diatonic major and minor modes, irregular and changing meters, canonic treatment, polyrhythms and Latin rhythms, instrumental accompaniments using chord changes, aleatoric principles and 12-bar blues. Continuation of the study of soprano

recorder with introduction of alto recorder in consort. Emphasis on improvisation. Prerequisite: MUSI 5382 and one year's teaching experience in Orff Schulwerk.

5376. Advanced Brass Techniques. 3(3-0)
Pedagogical practices and materials for teaching brass instruments, acoustical properties; care and maintenance of the brasses.

5390. Marching Band Techniques. V:1-3
Planning and charting football shows, rehearsal problems and equipment.

5392. Music Education Seminar. V:1-3
Selected topics in music education. May be repeated when topic of study changes.

5394. Foundations of Music Education. 3(3-0)
History, philosophy and sociology of music education and the aesthetics of music.

5398. Advanced Conducting. 3(3-0)
Baton techniques and critical examination of scores; rehearsal and interpretive problems. Prerequisite: MUSI 3196.

PHYSICS AND GEOSCIENCES

Thomas McGehee, *Graduate Coordinator (Geology)*

Hill Hall 113. MSC 175. Extension 3310

Lionel Donnell Hewett, *Graduate Coordinator (Physics)*

Hill Hall 113. MSC 175. Extension 2618.

Graduate Faculty: Paul H. Cox (*Physics*), Lionel Donnell Hewett (*Physics*), Thomas McGehee (*Geology*)

Associate Member: Jaehyung Yu (*Geology*)

The Department of Physics and Geosciences offers graduate courses in Geology and in Physics, and a minor in each field. Each of these is a strong supporting field for a major in another science, mathematics or engineering.

GEOLOGY (GEOL)

5305. Graduate Research Project. 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5310. Advanced Topics in Geology. V:1-3
Intensive study at a graduate level of selected advanced topics. May be repeated for credit under different topics.

5311. Geochemistry. 3(2-3)
Study of the occurrence, distribution and behavior of major and minor elements in the earth's atmosphere, hydrosphere and lithosphere. Prerequisites: GEOL 3409, GEOL 3411, CHEM 1412. Laboratory fee, \$5.

5312. Geographic Information Systems. 3(3-0)
Principles and practice of geographic information systems (GIS) using vector-based GIS as the primary software package. Students will demonstrate the use of GIS through individual class projects oriented toward their area of interest.

5319. Geology of Groundwater. 3(3-0)
Principles and practice of physical and chemical hydrogeology in uncontaminated and contaminated settings. This includes the influence of geologic conditions on groundwater quality, production, contamination and resource evaluation. Emphasis will be placed on a geology/hydrology course involving the presentation of theory, the collection of field data, the use of industry-validated computerized models for the analysis of the field data and the presentation of reports. Prerequisite: graduate standing, GEOL 1303/1103 and GEOL 1304/1104.

5352. Remote Sensing. 3(3-0)
Principles and practice of remote sensing involving analysis and interpretation of aerial photos and digital images. Students will demonstrate the use of remote-sensed through individual class projects oriented toward their area of interest.

PHYSICS (PHYS)

5370. Meteorology. 3(3-0)
The study of the Earth's atmosphere. Topics include the atmosphere's energy balance and temperature distribution; the effect of water vapor; the cause and typical characteristics of winds; air mass characteristics and their changes associated with transport.

5390. Special Topics in Advanced Physics. 3(3-0)
A detailed study of one or more specific sub-disciplines of physics. Course may be repeated for credit when topic changes.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **PHYS 4303.** Mathematical Methods of Physics. **PHYS 4323.** Optics. **PHYS 4343.** Modern Physics II. **PHYS 4353.** Quantum Theory. **PHYS 4390.** Selected Topics in Modern Physics. **PHYS 4460.** Nuclear Physics.

PSYCHOLOGY AND SOCIOLOGY

Lloyd B. Dempster, *Graduate Coordinator (Psychology)*

Manning Hall 150. MSC 177. Extension 2685.

Joseph V. Domino, *Graduate Coordinator (Sociology)*

Manning Hall 156. MSC 177. Extension 2703

Graduate Faculty: Jieming Chen (*Sociology*), Don Daughtry (*Psychology*), Lloyd B. Dempster (*Psychology*), Joseph V. Domino (*Sociology*), Bennie Green, (*Sociology*), Cecilia C. Rhoades (*Sociology*)

Associate Members: Laura C. Garza (*Psychology*), Stanley Hodges (*Sociology*)

The Department of Psychology and Sociology offers an interdisciplinary supporting area in Gerontology preparing graduates to assume leadership positions in programs and agencies serving older people and their families.

The graduate program in Psychology offers three general psychology degree plans. In addition, it is possible to design a degree program that prepares the student for state examinations for certification as a Psychological Associate and/or licensure as a Licensed Professional Counselor.

The student must have at least 18 semester hours of undergraduate psychology as a prerequisite, including courses in statistics, experimental psychology and history and systems of psychology. Additional courses may be needed to allow the student to enroll in specific graduate courses.

Applicants to the graduate program in psychology must be approved by the Psychology Graduate Admissions Review Committee before formal acceptance into the program. Please contact the graduate coordinator for additional information.

The research requirements for all plans include primary data collection and analysis. For additional information see the departmental pamphlet, Graduate Psychology Program.

The Licensed Professional Counselor Track is designed for those students desiring to sit for the state LPC exam. The LPC requirements include 39 hours dictated by the State of Texas LPC Licensing Board and includes the courses contained in the Master's Degree in Psychology "core curriculum."

The Preparation for Doctoral Program Track is designed for those students desiring to pursue doctoral studies. This track includes the psychology core curriculum, PSYC 5309, PSYC 5313 and PSYC 5306.

Psychology Core Curriculum courses are required of all students and include:

PSYC 5305

PSYC 5319

PSYC 5325

PSYC 5381

Additionally, the Department of Psychology and Sociology offers a Master of Arts and a Master of Science in Sociology. The program provides advanced training for those preparing for teaching, research or applied careers in sociology such as law enforcement or social work. Prerequisites include at least 18 semester hours of undergraduate sociology. The Master of Science and Master of Arts degrees may be earned under either Plan I or Plan II.

GERONTOLOGY (GERO)

5399. Internship in Gerontology. 3(2-10)
On-the-job supervised experience that allows the student to put theories and ideas into practice. Will be repeated for credit. Prerequisite: permission of the instructor.

PSYCHOLOGY (PSYC)

5302. Individual Psychological Tests. 3(3-0)
Major individual psychological tests. Each student will choose one particular scale, master its techniques, administer it to a specific number of subjects, score and interpret the results. Prerequisites: PSYC 4308 and PSYC 3381 or equivalent. Laboratory fee, \$5.

5304. Counseling and Psychotherapy. 3(3-0)
A survey of the major theories of counseling and psychotherapy. Prerequisites: 6 semester hours of advanced psychology or the equivalent.

5305. Graduate Research Project. 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5307. Psychology of Aging. 3(3-0)
Overview of literature and academic research in the field of psychology of aging with a focus on effective interventions in applied situations. Topics covered will include physical processes, cognition, personality, psychopathology and death/dying. Students will have the opportunity to explore a specific topic in depth. Prerequisite: enrolled in Gerontology program or 18 hours of Psychology.

5308. An Introduction to Clinical Psychology. 3(3-0)
An introduction to the clinical method of analysis and treatment of behavior disorders. Prerequisites: PSYC 4308, PSYC 4322 and PSYC 4325.

- 5309. Cognitive Psychology.** 3(3-0)
Analysis of theoretical, empirical, methodological and applied issues in such areas as attention, pattern recognition, memory, language and problem solving. The relationship between cognition and such individual-difference variables as age, intelligence and expertise will be covered.
- 5310. Data Analysis in Social Research.** 3(3-0)
An intermediate level statistics course on linear modeling, with an emphasis on statistical data analysis: data management, data manipulation and introduction to linear modeling (ANOVA and classical linear regression). Prerequisite: PSYC 3381 or its equivalent. (Credit may not be obtained in both PSYC 5310 and SOCI 5310.)
- 5313. Physiological Psychology.** 3(3-0)
An intensive study of the biological mechanisms underlying behavior and applications of biological psychology to human problems. This course covers biological foundations, evolution and development of the nervous system, perception and action, the regulation of behavior, emotions and mental disorders and cognitive neuroscience.
- 5314. Selected Topics in Psychology.** 3(3-0)
Literature and research in areas of psychology not otherwise treated in depth in available courses. May be repeated for credit with change in topic. Prerequisite: courses appropriate to the selected topic.
- 5315. Practicum in Counseling.** 3(2-10)
Supervised practice in counseling and therapy with individual clients: 150 hours of practicum experience in a professional setting per semester plus two hours of individual or group supervision per week. May be repeated for credit. Prerequisites: PSYC 5304, PSYC 5308, PSYC 5325 and PSYC 5333.
- 5319. Life Span Development: Theory/Techniques.** 3(3-0)
A study of psychological, social, cultural, physical and emotional factors affecting personality development and behavior throughout the life span. Emphasis on theoretical perspectives on development.
- 5321. Methods and Techniques in Family Therapy.** 3(3-0)
Review of family systems and family therapy paradigms. Emphasis on the acquisition of skills and techniques through experiential class exercises. Prerequisite: an introductory course in family therapy.
- 5325. Psychopathology.** 3(3-0)
A survey of the research, theories, assessment and treatment models of psychopathology.
- 5329. Neuro-linguistic Programming.** 3(3-0)
A study of alternative approaches to communication in the field of counseling. These include rapport, influencing skills and the use of body language to achieve results and accelerate learning. Other approaches include the use of metaphors, storytelling and relaxation techniques.

- 5331. Lifestyles and Career Development.** 3(3-0)
A review of psychological research, theory and methodologies in the world of work, including the nature of organizations and the worker, group processes and training, communication, attitudes, motivation and leadership.
- 5332. Psychology of Women.** 3(3-0)
An intensive overview of the special social, psychological and biological issues facing women in contemporary Western culture. Topics include gender role formation and differences, female sexuality, relationships, values, status and wellness.
- 5333. Ethics and Legal Issues.** 3(3-0)
An intensive study of ethical and legal issues for students with a background in counseling or related areas. Focuses on basic issues, values clarification, foundations of ethical positions and interaction with the legal profession.
- 5335. Seminar in Sexual Dysfunctions and Issues.** 3(3-0)
Social, cultural, psychological and medical components, including therapeutic intervention. Prerequisite: PSYC 5304 or equivalent.
- 5336. Clinical Assessment of Abnormal Behavior.** 3(3-0)
The assessment of abnormal behavior with emphasis on symptomatic behavior, clinical diagnosis and writing assessments and planning treatment.
- 5342. Projective Testing.** 3(3-0)
Personality assessment, employing such projective techniques as the Rorschach, Bender-Gestalt and Thematic Apperception tests. Includes interviewing, administration, scoring, interpretation and report writing. Prerequisite: PSYC 4308.
- 5344. Group Therapy.** 3(3-0)
A study of the theoretical concepts of types of groups, stages of group development and leadership skills.
- 5352. Advanced Social Psychology.** 3(3-0)
Advanced study of how peoples' thoughts, feelings and behaviors are influenced by actual, imagined or implied other people. Topics include the psychological study of conformity, attitudes, aggression, altruism, conflict and cooperation.
- 5354. Behavioral Modification.** 3(3-0)
Human behavior examined by using a step-by-step approach introducing principles of behavior modification and providing practical, specific information needed for their successful application.
- 5381. Behavioral Science Research.** 3(3-0)
Behavioral science research design, methodology, analysis and interpretation of results. Under tutorial guidance, students conduct, analyze and report on an empirical study of their own design and choice of topic. Prerequisites: PSYC 3381 or equivalent and either PSYC 3387 or SOCI 4382.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **PSYC 4302.** Industrial Organizational Psychology. **PSYC 4308.** Theory and Principles of Psychological Testing. **PSYC 4312.** Physiological Psychology. **PSYC 4322.** Psychology of Personality. **PSYC 4325.** Abnormal Psychology. **PSYC 4328.** Psychology of Perception.

SOCIOLOGY (SOCI)

5300. Seminar in Criminal and Deviant Behaviors. 3(3-0)

Sociological analysis of criminal and deviant behaviors with a focus on the causes, consequences and social control of crime and deviance.

5301. Seminar in Sociological Theory. 3(3-0)

Analysis of generalizations derived by sociology concerning how human beings live and interact.

5302. Seminar in Social Organization. 3(3-0)

The dynamics and structure of social organization with emphasis on large-scale systems. Critical evaluation of current research and contemporary theories of social organization.

5303. Advanced Research Methods. 3(3-0)

General research methods and techniques. Behavioral science research design and related statistical analysis techniques. Prerequisite: SOCI 3381 and SOCI 4382 or PSYC 3387 or their equivalent.

5304. Seminar in Juvenile Delinquency. 3(3-0)

Sociological analysis of juvenile delinquency with a focus on the social causes and consequences of delinquent behavior, and the social control of delinquency in the context of the juvenile justice system.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5308. Studies in Contemporary Sociological Problems. 3(3-0)

Current theoretical and methodological problems encountered in advanced research in major areas of sociology. May be repeated for credit when topics differ.

- 5309. Selected Topics in Sociology.** 3(3-0)
Literature and research in areas of sociology not otherwise treated in depth in available courses. May be repeated for credit with change in topic. Prerequisite: courses appropriate to the selected topic.
- 5310. Data Analysis in Social Research.** 3(3-0)
An intermediate level statistics course on linear modeling, with an emphasis on statistical data analysis: data management, data manipulation and introduction to linear modeling (ANOVA and classical linear regression). Prerequisite: SOCI 3381 or its equivalent. (Credit may not be obtained in both SOCI 5310 and PSYC 5310.)
- 5320. The Study of Culture.** 3(3-0)
Introduction to the concept of culture and its impact on our lives. Focus on methods of study and analysis, including the principal approaches to documenting and interpreting culture in both primitive and modern societies. Prerequisite: graduate standing.
- 5321. Social Demography.** 3(3-0)
A study of population age and sex structure; population processes such as fertility, mortality and migration and their measurements; and interactions between the human population and its larger social and cultural environment.
- 5322. Seminar in Social Stratification.** 3(3-0)
Survey of literature on stratification and social inequalities, with an emphasis on sociological theories of stratification in class, gender and race.
- 5340. Sociology of the Family.** 3(3-0)
An examination of the family from both micro-level and macro-level sociological perspectives, with consideration given to change and diversity as well as methodology and substantive findings.
- 5341. Gerontology.** 3(3-0)
Course addresses the state, national and international factors currently affecting the aged population. Areas emphasized are income and economic change, housing, institutional care, health, nutrition, family relationships, new and proposed laws and programs, retirement programs and preretirement planning.
- 5345. Minority Aging.** 3(3-0)
Analysis and comparison of the ways racial/ethnic differences affect the aging experience and quality of life for older African Americans, Hispanic Americans, Asian Americans and Native Americans, with attention given to gender and social class issues.
- 5346. Sociology of Hispanic Aged.** 3(3-0)
Analysis of the aging experience and quality of life for older Hispanic Americans with attention given to gender and social class issues. Prerequisite: SOCI 5341 or comparable course with approval of instructor.

5350. Sociology of Murder.

3(3-0)

Addresses the study of murder as a form of deviant social behavior. Content covers the definition, frequency, types and societal reaction to homicide. The social-psychological factors related to typical, mass, serial and professional murders will be presented.

5352. Studies in Corrections.

3(3-0)

Advanced treatment of the philosophies, theories, social-historical context, facilities and problems associated with contemporary corrections in America.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **SOCI 4307.** The Family and Marriage. **SOCI 4341.** Sociology of Aging. **SOCI 4362.** Race Relations. **SOCI 4382.** Methods of Social Research. **SOCI 4383.** Social Theory.

MASTER'S PROGRAMS IN BUSINESS ADMINISTRATION

Martin Brittain, *Graduate Coordinator*
Business Administration Building 108. MSC 182. Extension 3801.

Graduate Faculty: Richard Aukerman (*Accounting and Computer Information Systems*), Ashley J. Bennington, (*Management and Marketing*), Richard C. Coleman (*Management and Marketing*), Robert Diersing (*Accounting and Computer Information Systems*), Craig A. Hollingshead (*Management and Marketing*), Paul Holt (*Accounting and Computer Information Systems*), Anthony Nikias (*Accounting and Computer Information Systems*), Barbara R. Oates (*Management and Marketing*), Jack D. Shorter (*Accounting and Computer Information Systems*), Jane Stanford (*Management and Marketing*), Frank A. Taylor (*Management and Marketing*), George A. Wagman (*Management and Marketing*)

Associate Members: George Gresham (*Management and Marketing*), Syed M. Harun (*Economics and Finance*), Joon-Yeoul Oh (*Accounting and Computer Information Systems*)

The graduate programs offered by Texas A&M-Kingsville, through its College of Business Administration, are nationally accredited by the Association of Collegiate Business Schools and Programs (ACBSP). Admission to any of the College's graduate programs requires a baccalaureate degree, adequate course work in the field of interest (or a plan to complete needed prerequisites) and a satisfactory score on the GMAT.

MASTER OF BUSINESS ADMINISTRATION (M.B.A.)

The M.B.A. program is designed especially for those persons who want to prepare themselves for executive or managerial positions in business enterprise and government entities. The degree requires the completion of 36 semester hours of graduate course work as a Plan III program. The following courses are prerequisites to application for candidacy for the M.B.A. degree: ACCT 2301, ACCT 2302, CISA 1301, ECON 2301, ECON 2302, FINC 3337, BUAD 3355, MGMT 3321, MKTG 3361, BLAW 3341 and a background in mathematics sufficient to perform the required quantitative aspects of the program courses. The program's 36 semester hours are classified as either required core courses or elective courses as shown below.

1. Required Core Courses (24 semester hours): ACCT 5311. Seminar in Accounting; ECON 5329. Managerial Economics; FINC 5331. Seminar in Business Finance; MGMT 5322. Seminar in Management; MGMT 5325. Management Science; MGMT 5335. Advanced Business Policy (must be taken at A&M-Kingsville as it satisfies the research component of Plan III programs); MGMT 5327. Managerial Business Statistics; MKTG 5361. Seminar in Marketing.
2. Elective Courses (12 semester hours): any 5000 level course listed in the College of Business Administration section of this catalog for which the student has the appropriate prerequisites. Some 4000 level courses listed in the College of Business Administration section of the undergraduate catalog may be used for graduate elective

credit with documentation of an additional work component by the instructor and approved by the College of Business Administration Graduate Coordinator, the Dean of the College of Business Administration and the Dean of the College of Graduate Studies. The additional work component must be documented on the "Graduate Credit for Undergraduate Course" form which must be submitted to the College of Graduate Studies before the 12th class day.

MASTER OF PROFESSIONAL ACCOUNTANCY (M.P.A.)

The M.P.A. program is designed especially for those persons who want to pursue a career in professional accountancy. The degree requires the completion of 36 semester hours of graduate course work as a Plan III program. All of the courses listed as prerequisites for the M.B.A. degree plus the following courses are prerequisite to application for candidacy for the M.P.A. degree: CISA 1302, BCOM 3304, BLAW 4342 and fifteen semester hours of advanced accounting electives. The program's 36 semester hours are classified as either required core courses or elective courses as shown below.

1. Required Core Courses (21 semester hours): ACCT 5307 (or ACCT 4317). Accounting Information Systems; ACCT 5314 (or ACCT 4315). Advanced Accounting Problems; ACCT 5316 (or ACCT 4318). Advanced Income Tax Problems; ACCT 5327 (or ACCT 4312). Advanced Auditing; ACCT 5341 (or ACCT 4319). Advanced Cost/Managerial Accounting; CISA 5309. Computer Technology and Its Applications; and MGMT 5335. Advanced Business Policy (must be taken at A&M-Kingsville as it satisfies the research component of Plan III programs).
2. Elective Courses (15 semester hours): three semester hours of 5000 level accounting courses, six semester hours of 5000 level graduate business administration courses and six semester hours of 4000 or 5000 level accounting courses listed in the College of Business Administration section of this catalog for which the student has the appropriate prerequisites. If 4000 level courses listed in the College of Business Administration undergraduate catalog are used for graduate elective credit, documentation of an additional work component required by the instructor must be submitted by the student with the approval of the College of Business Administration Graduate Coordinator, the Dean of the College of Business Administration and the Dean of the College of Graduate Studies. The additional work component must be documented on the "Graduate Credit for Undergraduate Course" form which must be submitted before the 12th class day.

B.B.A./M.P.A. 150-HOUR PROGRAM (B.B.A./M.P.A.)

Undergraduate accounting majors can opt to pursue the B.B.A. degree with a major in Accounting and the M.P.A. degree simultaneously, receiving both degrees upon completion of the M.P.A. requirements. For a complete listing of required courses, see the Accounting major portion of the College of Business Administration's section of the undergraduate catalog.

MASTER OF SCIENCE (with a major in Business Administration) (M.S.)

The M.S. degree in Business Administration is available to those students who wish to complete a supporting field area of study outside the College of Business Administration. Students pursuing the Master of Science degree with a major in Business Administration must meet the same admission, residence and prerequisite requirements as M.B.A. candidates. The program requires the completion of 36 semester hours of graduate course work as shown below.

1. Required Core Courses (24 semester hours): All the courses identified as Required Core Courses for the M.B.A. degree.
2. Supporting Field Area Courses (12 semester hours): A supporting field area course of study outside the College of Business Administration as approved by that area's program coordinator. Note: Economics is considered an outside field.

SUPPORTING FIELDS AND SPLIT SUPPORTING FIELDS IN BUSINESS ADMINISTRATION

Students from other colleges besides Business Administration may have a supporting field (15 credit hours) or split supporting field (9 credit hours) in business with the consent of their graduate coordinator. The courses should be chosen from the College of Business Administration section of this graduate catalog in consultation with the College of Business Administration Graduate Coordinator. Students interested in registering for graduate business administration courses need to satisfy the prerequisite requirement or obtain consent of the instructor.

ACCOUNTING (ACCT)

5302. Foundations in Accounting.

3(3-0)

An introduction to financial and managerial accounting principles and procedures for graduate students with limited background in accounting or business. Study of measurement and reporting issues and their effect on revenue and expense recognition, equity and other related items. Study of managerial accounting issues, including enterprise planning and control.

5307. Accounting Information Systems.

3(3-0)

Requirements, constraints, elements and considerations in design, implementation, auditing and housekeeping of accounting systems in relation to the total information systems for business decisions on a computerized data processing basis.

5308. Accounting Ethics.

3(3-0)

Application of ethical theory, philosophy and principles including the concepts of ethical reasoning, integrity, objectivity, independence and other core values. Prerequisite: senior standing.

5311. Seminar in Managerial Accounting.

3(3-0)

Introduction to managerial accounting as it is used to plan, evaluate and control an organization. Emphasis on budgeting, standard costing and analysis of costs and profits. Prerequisite: 24 semester hours of undergraduate business courses including ACCT 2302.

5312. Seminar in Financial Accounting. 3(3-0)

Theoretical structure of accounting, controversial and contemporary issues. Emphasis on the development of generally accepted accounting principles. Prerequisites: ACCT 3314 and ACCT 4314.

5314. Advanced Accounting Problems. 3(3-0)

Accounting principles for partnerships, estates and trusts, debt restructuring, reorganizations and liquidations, interim financial reporting and segmentation, foreign currency transactions and translation, leverage buyouts. Prerequisite: ACCT 3312.

5316. Advanced Income Tax Problems. 3(3-0)

Particular attention given to tax regulations applicable to partnerships and corporations together with preparation of federal income tax returns for such businesses. Consideration also given to federal gift and estate tax. Prerequisite: ACCT 4308.

5319. Special Problems in Accounting. 3(3-0)

Study, research or internship in accounting. May be repeated once for credit. Prerequisite: consent of instructor.

5323. CPA Review. 3(3-0)

Review of the major accounting, business and legal environment issues with respect to all sections of the CPA exam.

5327. Advanced Auditing. 3(3-0)

Audit program planning and special reports, auditing topics. Prerequisite: ACCT 4311.

5337. International Accounting. 3(3-0)

An overview of international accounting. A review of exchange rates and international economics. Examination of accounting practices in various countries, with emphasis on US-based multinational corporations.

5341. Advanced Cost/Managerial Accounting. 3(3-0)

Planning and control of cost elements; analysis of costs and profits; and current topics in cost/managerial accounting. Prerequisite: ACCT 3314.

5350. Internship in Accounting. V:1-3

An off-campus learning experience allowing the application of accounting skills in an actual work setting. This course will count towards the hours required for the CPA exam only if the internship requirements set by the State Board of Public Accountancy are met. Prerequisites: approval of a faculty coordinator and the department head.

BUSINESS COMMUNICATIONS (BCOM)

5310. Professional Communication. 3(3-0)

Theory and practice of professional and managerial communication strategies and skills. Topics covered include speaking, listening and writing skills, report writing and presentation skills and intercultural communication skills.

COMPUTER INFORMATION SYSTEMS (CISA)

5309. Computer Technology and its Applications. 3(3-0)

Study of computer hardware and software technology with emphasis on price versus performance issues and matching system capabilities to intermediate and advanced business applications.

5310. Organization and Management of Business Databases. 3(3-0)

A study of important issues in the design and implementation of databases for business enterprises with emphasis on the relational model. Study of non-relational database models such as object-oriented, hierarchical and network. Hands-on experience will be provided using a current relational database product. Prerequisite: CISA 5309 or permission of the instructor.

5320. Decision Support Systems. 3(3-0)

A study of computer-based systems that support unstructured and semi-structured decision making by individuals or groups. These systems include: decision support systems, group decision support systems, executive information systems and expert systems. Prerequisite: CISA 5309 or permission of the instructor.

5330. Telecommunications. 3(3-0)

A study of concepts, principles and technologies allowing the integration of information and telecommunications systems to support the internal and external activities of business enterprises. Prerequisite: CISA 5309 or permission of the instructor.

5340. Systems Analysis, Design and Implementation. 3(3-0)

A study of systems analysis, design and implementation techniques that can be used to analyze and improve or create organizational information and communications systems. Prerequisite: 9 credit hours of graduate level courses in CISA or CSEN or permission of the instructor.

5359. Special Problems in Computer Information Systems. 3(3-0)

Study, research or internship in CISA. May be repeated once for credit. Prerequisite: consent of instructor. Laboratory fee, \$5.

ECONOMICS (ECON)

5302. Microeconomic Analysis. 3(3-0)

An intensive study of microeconomic theory in both its partial equilibrium and general equilibrium aspects. Topics covered include concepts and techniques of economic analysis; theory of consumer choice; theory of the firm, of capital and interest; theory of markets and exchange; factor price determination and functional income distribution. Prerequisites: 24 semester hours of undergraduate Business Administration including ECON 2301, ECON 2302 and MATH 1325 or equivalent.

5304. Macroeconomic Analysis. 3(3-0)
Analytical tools of advanced contemporary macroeconomics. Determination of the level of aggregate income; investment, money, interest and prices; wages, prices and employment. Prerequisites: 24 semester hours of undergraduate Business Administration including ECON 2301 and ECON 2302 or equivalent.

5320. Foundations of Economics. 3(3-0)
An introduction to economic principles, analysis and procedures for graduate students with limited or no academic background in economics or business. The theories of supply and demand, price theory, competition and market structure, market failure and the role of government and other economic issues. Aggregate demand and supply analysis for the determination of output, employment, inflation and economic growth. The role of fiscal and monetary policy.

5329. Managerial Economics. 3(3-0)
Microeconomic theory applied to managerial decision-making, relating managerial economics to finance and other business disciplines.

5349. Special Problems in Economics. 3(3-0)
Special studies or internship in economics. May be repeated for credit.

FINANCE (FINC)

5330. Foundations of Finance. 3(3-0)
An introduction to finance principles, analysis and procedures for graduate students with limited or no academic background in finance or business. Determining and analyzing the forms of business enterprise. Analysis of the techniques, methods and procedures used in acquisition and proper employment of funds in the business entity.

5331. Managerial Finance. 3(3-0)
An advanced study of the theoretical framework of corporate financial management. Combines theory and case analysis to integrate principles with practice. Emphasis on the relevant theory and the application of theory to managerial problems. Applies concepts of corporate finance, accounting principles and quantitative analysis. Prerequisite: FINC 5330 or equivalent.

5336. Investment Analysis. 3(3-0)
A study of the financial markets, investment theory, security valuation, 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. Prerequisite: FINC 5331.

5339. Special Problems in Finance. 3(3-0)
Special studies or internship in finance. May be repeated once for credit.

MANAGEMENT (MGMT)

5322. Seminar in Management. 3(3-0)
Philosophy and concepts underlying modern management. Prerequisite: MGMT 3321 or MGMT 4327 or equivalent experience.

5325. Management Science. 3(3-0)
Analysis of management science approach to business decisions. Emphasis on problem formulation, solution generation and sensitivity analysis of solution. Various specific tools and techniques will be covered each semester. Prerequisites: MGMT 3321, BUAD 3355 and MATH 1325. Laboratory fee, \$5.

5329. Special Problems in Management. 3(3-0)
Special studies or internship in management. May be repeated once for credit.

5335. Advanced Business Policy. 3(3-0)
Domestic and international strategic planning using case studies and simulation. Prerequisite: 24 hours of graduate business courses or final semester of graduate study.

5337. Managerial Business Statistics. 3(3-0)
Selected statistical methods involving quality control, forecasting, sampling and other business applications using SAS software.

MARKETING (MKTG)

5314. Strategic Logistics Management. 3(3-0)
Integration of transportation, inventory, facility location, informational flow, materials handling and protective packaging activities into a system for managing physical flow of inbound and outbound products and materials.

5361. Seminar in Marketing. 3(3-0)
Marketing theory and strategy emphasizing the utilization of marketing concepts in the organization. Prerequisite: MKTG 3361.

5363. International Marketing Management. 3(3-0)
Study of the competitive need to globalize marketing efforts by coordinating domestic and foreign marketing programs. Covers topics from strategic formulation through implementation of marketing programs.

5369. Special Problems in Marketing. 3(3-0)
Special studies or internship in marketing. May be repeated once for credit.

MASTER'S PROGRAMS IN EDUCATION

The College of Education offers graduate programs in Adult Education, Bilingual Education, Counseling and Guidance, Educational Administration, English as a Second Language (ESL), Health and Kinesiology, Instructional Technology, Reading and Special Education. Graduate programs lead to the Master of Arts, Master of Science, Master of Education and Doctor of Education degrees.

The College of Education is dedicated to preparing individuals to assume positions of responsibility and leadership in education. The college is committed to serving an ethnically diverse population that comprises the university's student base and seeks to work cooperatively with area organizations in promoting quality education at all levels. The college's goal is to prepare qualified personnel to meet the educational challenges of society with special emphasis on the needs of South Texas and North Mexico. Students are expected to meet the Code of Ethics and Standard Practices for Texas Educators and those of their specialty area(s).

Admission to any of the graduate programs requires a baccalaureate degree and adequate course work in the field of interest and a satisfactory score on the GRE Aptitude Test.

EDUCATION (EDED)

The education classes serve to prepare individuals to work in all areas of education.

5303. Internship in Instructional Technology. 3(3-0)
Field-based projects and experiences for the purpose of practical application of instructional technology.

5304. Alternative Certification Teaching Internship. 3(3-0)
Designed for teachers seeking certification under the alternative certification program. Provides extensive supervised experiences in a setting aligned with student's chosen program. Prerequisite: bachelor's degree from a regionally accredited institution, employment by a school district and criteria for admission to the alternative certification program. Course is repeated consecutively for two three-credit hour courses to meet state alternative certification requirements of six hours of internship.

5307. Novice Teacher Induction Seminar. 3(3-0)
Designed for novice teachers in high need schools. Provides an opportunity for them to strengthen their development in the three major areas research has identified as critical to teacher induction programs: coping with personal and professional issues, adjusting to the climate and culture of the school site and system and developing effective instructional and classroom management skills. The course goals are to aid in the formation of participants' professional identity as teachers and life-long learners and to provide them with personal and professional support to help cope with the realities of the first year in the classroom.

5308. Principles and Philosophy. 3(3-0)
School practice in the light of basic assumption of philosophy. Designed and conducted to stimulate critical thinking.

5310. Microcomputers in Education. 3(3-0)

Methods/strategies for utilizing microcomputers and related technology in public school settings; evaluation and review of software; fundamentals of computer-assisted and computer-managed instruction.

5311. Introduction to the Digital Learning Society. 3(3-0)

Explores the technological evolution as it relates to K-16 education to rethink strategies for learning and to reflect upon the technological revolution that is transforming the world. Also explores enhancing individual intelligence through interaction with “smart” machines.

5312. World Wide Web Learning Environments. 3(3-0)

Principles of Web-Based Instruction (WBI) and its role in creating learning environments that utilize the attributes and resources of the Internet and the World Wide Web (WWW). Emphasis of pedagogical, technological, organizational, instructional and ethical issues related to design, development and delivery of WBI. Students will be required to critique several frameworks from a theoretical and applied perspective. Course will provide opportunity to design, develop and evaluate an instructional prototype that utilizes the attributes of the WWW.

5318. Advanced Instructional Strategies and Learning Theories. 3(3-0)

Advanced teaching skills and strategies for experienced teachers. Verbal and nonverbal instructional strategies and positive discipline approaches.

5320. Multimedia and Streaming Technology in the Classroom. 3(3-0)

Provides opportunities to experience the instructional design process as applied to the development of a computer-based instructional prototype module. Opportunity to interact with subject matter experts, draft a comprehensive design approach and implement ideas using an authoring system. Focuses on facilitating connections between instructional design literature and practice of designing and developing instruction using multimedia technology. The use of streaming technology will target development of lessons for staff development and utilization of streaming media in school curriculum to enhance teacher effectiveness.

5322. Computer and Internet Law. 3(3-0)

Discusses and analyzes the federal, state and local laws regulating the use of computers and the Internet and the legal application to teaching and learning. Designed to assist technology professionals in the acquisition of the knowledge, skills and concepts to keep administrators, teachers and staff abreast of the evolving laws and rules in addition to the requirements to avoid litigation or legal problems in schools related to computer/Internet law.

5329. Education Research. 3(3-0)

Use of resources, techniques and basic skills.

5353. Instructional Media in Education. 3(3-0)
Administration and management of the educational media program, educational television, school instructional materials center, regional educational service center, general and current research and exploration of various areas encompassed in the broad concept of an educational media program. Prerequisite: EDAD 5341.

5371. Education: Special Problems. 3(3-0)
Study of school problems in designated areas approved by the university. May be repeated for credit when topic changes.

5372. Special Problems in Instructional Technology. 3(3-0)
Focuses on current problems in the field of Instructional Technology and integration of technology in schools. Content will include seminars, workshops and development in innovations in the world of technology and telecommunications as applied in the educational setting.

5374. Pedagogical Methods in the Middle School Classroom. 3(3-0)
Examination and implementation of developmentally appropriate instructional, assessment and management strategies and techniques with an emphasis on problem-based, inquiry-based and technology-based learning; development of extended inter- and intra-disciplinary learning experiences for middle level learners utilizing appropriate TEKS, resources and materials.

5375. Pedagogical Methods in the High School Classroom. 3(3-0)
Examination and implementation of developmentally appropriate instructional, assessment and management strategies and techniques with an emphasis on problem-based, inquiry-based and technology-based learning; development of extended inter and intra disciplinary learning experiences for secondary level learners utilizing appropriate TEKS, resources and materials.

BILINGUAL EDUCATION

Elias Martinez, *Graduate Coordinator*
Poteet Hall 235. MSC 152. Extension 4993

Graduate Faculty: Jaya S. Goswami, Elias Martinez, Roberto Torres

The Department of Bilingual Education offers a master's degree (M.A. or M.S.) in bilingual education and a master of education in English as a Second Language. The programs are designed to serve the professional staff development needs of educators. Students can earn supplemental certificates valid in Texas while completing their master's degree.

BILINGUAL EDUCATION (EDBL)

5305. Graduate Research Project. 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

- 5306. Thesis.** 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5338. Foundations of Bilingual Education.** 3(3-0)
Introduction to conceptual, linguistic, sociological, historical and legal foundations of bilingual education.
- 5358. The Bilingual Child in the Bicultural Environment.** 3(3-0)
Psychological and sociological perspectives on the child's learning environment.
- 5386. Teaching Mathematics, Science and Social Studies in the Bilingual Classroom.** 3(3-0)
Methods, techniques and vocabulary needed for teaching mathematics, science and social studies in Spanish will be presented.
- 5387. Teaching Language Arts and Reading in the Bilingual Classroom.** 3(3-0)
An examination of methods and techniques for teaching oral skills, reading and writing in the bilingual classroom. Relationship among the communication skills will be explored.
- ENGLISH AS A SECOND LANGUAGE (EDSL)**
The Department of Bilingual Education offers an M.Ed. in English as a Second Language (ESL). The program is designed to prepare teacher educators for leadership roles with educational institutions that serve limited-English proficient children and adults.
- 5320. Research in English as a Second Language.** 3(3-0)
This course focuses on research in ESL with special emphasis on research methods suitable to the field.
- 5330. ESL Assessment for Elementary/Secondary Levels.** 3(3-0)
An overview of testing theories and procedures; review of tests available for use in ESL classrooms. Prerequisites: admittance to Master's Program in ESL.
- 5333. Contrastive Analysis: Spanish/English** 3(3-0)
The study of contrastive analysis and its application in identifying potential problem areas for Spanish speakers learning English as a Second Language.
- 5335. Teaching Materials for Elementary and Secondary Classrooms.** 3(3-0)
The evaluation, adaptation and development of instructional materials in ESL suitable for different elementary and secondary classroom environments.
- 5367. Language Acquisition and Development.** 3(3-0)
Theories of child's first language acquisition and second language learning presented and researched.

5377. Teaching English as a Second Language. 3(3-0)

Theories and methodologies for teaching listening, speaking, reading and writing of English as a second language.

CURRICULUM AND INSTRUCTION

Mike Desiderio, *Graduate Coordinator*

Poteet Hall 204. MSC 196. Extension 4333.

Graduate Faculty: Shirley Bleidt, Jack A. Bradley, Karen Sue Bradley, Mike Desiderio, Zonia Garcia-Obregon, Grace Hopkins, Marie Lassmann, Ana Rodriguez

EARLY CHILDHOOD (EDEC)

The Early Childhood Program offers a master's degree (M.Ed.) in early childhood education. The program is designed to serve the professional development needs of educators. An endorsement in early childhood is also available.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5316. Social and Natural Science Studies. 3(3-0)

Content and methods for promotion development of knowledge, skills and attitudes in social and natural sciences for preschool children. Unit themes will be developed for integrating curriculum.

5333. Foundations of Early Childhood Curriculum. 3(3-0)

Historical, philosophical, sociological and psychological bases for early childhood curriculum design. The representation of research, theory and professional recommendation in developmentally appropriate practice.

5334. Profession Laboratory Experiences in Early Childhood Education. 3(3-0)

Practicum in observing and recording behavior of young children. Assignments in developmentally appropriate activities for preschool children. May be repeated once. Prerequisite: 12 hours of Early Childhood Education.

5335. Integrated Curriculum in Early Childhood Education. 3(3-0)

An advanced course in curriculum design with an emphasis on integration of content areas for instruction. Math, science, language, arts and social studies scope and sequence will be presented. Adaptations for special populations will be included. Prerequisite: EDEC 5333.

5349. Creative Activities and Play. 3(3-0)

A study of creative thought and behavior in young children. Methods and materials for teaching art, music and dramatics for young children. Theories of play and development.

5351. Special Problems Seminar in Early Childhood Education. 3(3-0)

The identification and research of specific problems as they relate to preschool programs. May be repeated once. Prerequisite: 12 hours of Early Childhood Education.

5359. Mathematics in Early Childhood Education. 3(3-0)

Development of logical thought and reasoning in young children. Developmentally appropriate activities and materials for promoting quantitative concepts.

5369. Emergent Literacy in Early Childhood Education. 3(3-0)

Emergent literacy as simultaneous development of listening, speaking, reading and writing. Linking research findings to early childhood philosophy and integrated program implementation.

READING (EDRG)

The Reading Specialist program leads to reading certification as a reading specialist in grades 1-12. It is designed to be especially useful in working with students having difficulty in learning to read. The program emphasizes building on student's strengths and on providing instruction appropriate for their individual learning styles. The program results in a master of science degree and certification as a Reading Specialist by the Texas Education Agency after passing the Reading Specialist ExCET.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned. Otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisites: EDED 5329 and departmental approval.

5314. Reading Diagnosis and Remediation. 3(3-0)

Identification of specific reading problems through both quantitative and qualitative examination of reading skills. Individually administered diagnostic instruments. Remediation techniques appropriate for overcoming the reading difficulty. Supervised case study work. Prerequisite: EDRG 5372.

5332. Using Trade Books to Teach Reading. 3(3-0)

Evaluation, selection and use of children's books in the elementary classroom are emphasized. Special attention is given to using children's literature to teach reading in the elementary school setting.

5348. Workshop in Teaching the Language Arts. 3(3-0)

The application of methods and materials to develop the essential elements of language arts (listening, speaking, writing and language) in the elementary classroom. Emphasis on diagnosis and remediation of individual students. Attention given to state testing programs.

5371. Foundations of Reading. 3(3-0)

Various models of the reading process as well as the sociological, physiological, psychological and educational factors influencing reading development are presented and researched. Also included are theories of language and literacy acquisition and development.

5372. Developmental Reading. 3(3-0)

Topics such as reading readiness, beginning reading, word recognition and comprehension skills, needs assessment and instructional strategies.

5373. Improving Reading in Secondary Schools. 3(3-0)

Needs of students in secondary reading courses are examined and appropriate strategies for meeting those needs investigated. Special attention given to using adolescent literature to fulfill the state reading essential knowledge and skills requirements in secondary reading classes.

5375. Organization and Supervision of the Reading Program. 3(3-0)

Developing, implementing, supervising and evaluating reading programs and various approaches to teaching reading. For principals, supervisors, consultants and reading specialists. Prerequisites: EDRG 5372 and 3 additional hours of reading courses.

5376. Seminar in Special Problems in Reading. 3(3-0)

A seminar investigating special topics in reading assessment, curriculum or instruction designed for reading specialists, supervisors, consultants and resource teachers. May be repeated for credit when topics change. Prerequisite: 6 hours of graduate reading courses.

5377. Clinical Practicum in Reading. 3(3-0)

Experience in developing competency in diagnosis and remediation of reading deficiencies in clinical setting. Prerequisites: EDRG 5314 and EDRG 5372.

SPECIAL EDUCATION (EDSE)

A career as a special education professional is a challenging one which offers various opportunities to work with students, their families, other professionals and the community to enable students with disabilities to become a successful member of society. Special educators are in great demand nationwide and the profession offers many career options.

The 36 semester hour M.Ed. degree in special education includes a supporting field and/or combined studies which provide eligibility for certification in Texas in the following areas: Special Education Teacher, Educational Diagnostician, Special Education Counselor, Special Education Director, Special Education Supervisor or Special Education Visiting Teacher.

5304. Research in Special Education. 3(3-0)

Presents the principles and methodology of conducting research in special education; reviews and evaluates pertinent research studies and recent trends in the field; facilitates the preparation for a proposal for a research project.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

- 5306. Thesis.** 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5307. Research Seminar: Gifted Education.** 3(3-0)
Includes a review and critique of the research literature exploring the controversies and trends surrounding the education of gifted learners.
- 5313. Special Populations: Legislation, Litigation and Advocacy.** 3(3-0)
State and federal legislation and litigation ensuring the rights of special populations for full participation in American society. Effective lifespan advocacy with and for individuals from special populations and their families. Prerequisite: EDSE 5360.
- 5320. Special Education: Special Problems.** 3(3-0)
Study of designated areas in special education as approved by the university. May be repeated for credit when topics change. Prerequisite: EDSE 5360.
- 5323. Curriculum Adaptations for Exceptional Bilingual Students.** 3(3-0)
Curriculum needs and program planning for culturally and linguistically different exceptional students. Prerequisite: EDSE 5360.
- 5333. The Bilingual Child in Special Education.** 3(3-0)
An overview of special education issues relevant to handicapped, limited English proficient children. Prerequisite: EDSE 5360.
- 5336. Methods, Materials and Curriculum for Teaching Gifted Students.** 3(3-0)
Explores the identification of gifted students, the scope and sequence of programs, curriculum models and instructional strategies.
- 5350. The Education of Gifted Learners.** 3(3-0)
Provides the foundation for studies in the education of students who are gifted and talented, including the nature and needs of the students and the theories, models and applications underlying educational programming.
- 5360. Accommodating Diverse Populations in the Classroom.** 3(3-0)
Introduction to the characteristics and education of exceptional learners. Emphasizes classroom practices and psychological, sociological and medical aspects of disabilities. Inclusionary practices in various educational contexts are investigated.
- 5361. Educational and Psychological Measurement and Evaluation.** 3(3-0)
Diagnostic and instructional assessment of individuals with handicaps for collaborative education decision-making. Selection and administration of measures for comprehensive evaluation of individuals within their environments. A minimum of 15 hours of field experience is required. Prerequisite: EDSE 5360.

- 5362. Behavioral Aspects of Classroom Organization and Management.** 3(3-0)
Development of a broadened perspective on socioemotional disorders. Educational translation and synthesis of psychoeducational theoretical approaches and classroom application into the most viable alternatives to meet the educational needs of special populations. A minimum of 15 hours of field experience is required. Prerequisite: EDSE 5360.
- 5364. Designing Instructional and Behavioral Programs for Special Populations.** 3(3-0)
Major program designs, curricular goals, content and instructional strategies effective with persons identified as having a range of handicapping conditions and provision of a supportive rationale for these strategies based upon current literature, research and practice. A minimum of 15 hours of field experience is required. Prerequisite: EDSE 5360.
- 5365. Advanced Practicum in Special Education.** 3(3-0)
Individualized field experiences providing opportunity for observation, research and intervention with persons who are handicapped. Experiences in direct and indirect service in professional settings. Prerequisite: EDSE 5360.
- 5366. Individual Psychological and Educational Testing.** 3(3-0)
Focuses on opportunities for gaining extensive field experience in the administration of standardized individual psychological and educational batteries to children and youth, ages 3-21. Prerequisites: EDSE 5360, EDSE 5361.
- 5367. Assessment of Individuals with Severe Disabilities.** 3(3-0)
Presents a variety of assessment techniques and tools designed specifically for individuals teaching or assessing students with severe disabilities. A minimum of 15 hours of field experience is required. Prerequisites: EDSE 5360, EDSE 5361.
- 5370. Identification of Young Children with Special Needs.** 3(3-0)
Process of identifying young children, ages birth to six, who have disabilities. Assessment strategies and techniques will be emphasized. Fifteen hours of field work are included. Prerequisites: EDSE 5360, EDSE 5361.
- 5373. Development and Disability.** 3(3-0)
Emphasizes development from the prenatal period through early adulthood. Considers various theories and factors affecting human differences. Explores the cognitive, affective and psychomotor development of persons having a range of disabilities, from mild to multiple and severe. Prerequisite: EDSE 5360.

EDUCATIONAL LEADERSHIP AND COUNSELING

Michelle Brown, *Graduate Coordinator, Counseling and Guidance*

Poteet Hall 257. MSC 223. Extension 4224

Ronald F. McKenzie, *Graduate Coordinator, Educational Administration*

Poteet Hall 252. MSC 223. Extension 2018.

Graduate Faculty: Michelle Brown, Linda Challoo, Rebecca Davis, Karen Furgerson, Cheryl Kelsey, Ronald F. McKenzie, Fred Ponder, La Vonne Williams

Master of Arts and Master of Science degrees permit individuals to major in Guidance and Counseling, Bilingual Education and Educational Administration. The Master of Science degree only is available for Instructional Technology and Reading.

The Master of Science in Instructional Technology prepares graduates to assume leadership roles and positions for the a) development and advancement of instructional technology programs in schools both public and private, b) for implementation of instructional technology training programs in public and private schools and c) for the planning and evaluation of instructional technology programs in both public and private schools.

The specific educational objectives of the program are:

1. To provide students with a wide range of knowledge and skills in the development and maintenance of quality instructional technology programs
2. To provide students with a background in instructional technology research and theory
3. To prepare students in the effective implementation of instructional technology staff development programs
4. To provide students with a knowledge of group dynamics and leadership skills to enhance development and integration of technology
5. To provide students with knowledge of acquisition of grants and contracts to facilitate the implementation of technology
6. To provide students with futuristic visionary leadership skills in implementing instructional technology network development and management
7. To provide students with knowledge of legal and ethical requirements of instructional technology implementation.

The Master of Science in Instructional Technology includes an emphasis on public and private school instructional technology. In addition, students acquire a wide range of knowledge and skills to support employment in the public and private sector. Instructional and educational standards derived from the principal accreditation organizations and other learned societies will be incorporated throughout the proposed program.

The Master of Education degree is available in Adult Education, Early Childhood Education and Special Education.

Professional Certificate programs or certificate endorsement programs in conjunction with a Master of Education Degree, a Master of Arts Degree, a Master of Science Degree or post master's work are available in Administration: Mid-Management, Administration: Superintendent, Bilingual, Counseling, Diagnostician, Early Childhood Education, Elementary, English as a Second Language, Reading and Reading Specialist, Secondary Education and Special Education.

ADULT EDUCATION (ADED)

The Adult Education program prepares individuals to work with the unique problems and learning styles of adult learners.

5301. Selected Topics in Adult Education. 3(3-0)

Detailed analysis and evaluation of selected topics in adult education not otherwise treated in depth in available courses. May be repeated for credit when topics differ.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: ADED 5392.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5319. Methods of Adult Education. 3(3-0)

Development of the knowledge, skills and attitudes which the adult education teacher should possess.

5360. Instructional Materials for Adult ESL Students. 3(3-0)

A review of criteria for selection of materials to teach ESL to adult students. Principles for the development of effective ESL curriculum materials designed to meet the needs of adult ESL students.

5361. Assessment of Adult ESL. 3(3-0)

This course examines the purposes, types and evaluations of language assessment in adult ESL programs. The topics of the test reliability, validity and practicality will be discussed. A review of standardized and alternative methods of assessment including portfolio and participatory assessment will be included.

5379. Adult Learning and Development. 3(3-0)

Research, theory and principles of adult learning and development explored. Evaluation of adult interests and skills through a variety of strategies discussed. Application of theory presented through class projects.

- 5388. Introduction to Adult Education.** 3(3-0)
A historical and structural overview of the adult education movement as well as a systematic examination of the role of the adult education across a wide range of institutional settings.
- 5389. Evaluation and Measurement in Adult Education.** 3(3-0)
An in-depth examination of principles of testing and measurement with particular reference to adult learners in a variety of adult education settings. Students will gain a working familiarity with the numerous testing instruments available for adults as well as gain skill in developing teacher-made measurements.
- 5390. Community Education.** 3(3-0)
Structure, purpose and strategies of community education as they relate to school administration and community development.
- 5391. Curriculum and Program Planning in Adult Education.** 3(3-0)
A review and analysis of the major theories, research findings and practices in the planning of adult education and training curricula. Appropriate practice and on-site application of concepts learned will be a major activity of this course.
- 5392. Adult Education Research Practicum.** 3(3-0)
Principles of research are examined in the context of the literature of the field of adult education. Guided opportunities for research of current adult education or training issues of theoretical and practical concern are provided under direction of a member of the adult education faculty.
- 5393. Counseling Adults.** 3(3-0)
Principles of education and vocational guidance and counseling to adults are reviewed, with special reference to illiterate and undereducated adults in South Texas. Supervised opportunities for practice and refinement of guidance and counseling skills are provided.
- 5394. Tutorial in Adult Education.** 3(3-0)
Systematic research and practice in topics in adult education and/or training selected by the student in consultation with a member of the adult education faculty. May be repeated once when the topic of the tutorial study changes.
- 5395. Teaching English as Second Language to Adults.** 3(3-0)
An intensive investigation and application of the theories, current research findings and methods of second language acquisition of adults.
- 5396. Teaching Literacy and Reading Skills to Adults.** 3(3-0)
Methods, materials and techniques for teaching literacy and reading skills to adults.
- 5398. Bilingual Adult Education.** 3(3-0)
In-depth treatment of the special learning problems encountered by illiterate, monolingual non-English speaking and undereducated adults.

COUNSELING AND GUIDANCE (EDCG)

The Counseling Program offers courses leading to certification as a school counselor and/or a master's degree in counseling. Students who complete the required 12 hours beyond the master's degree are eligible to pursue licensure as a professional counselor (LPC).

5301. Statistical Methods. 3(3-0)

Methods for the analysis and synthesis of quantitative data. A tool subject for experimental work including finding and interpreting central tendencies, variability and correlation. Important for classroom teachers, administrators, counselors and supervisors.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: EDCG 5329.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5310. Introduction to Counseling and Guidance. 3(3-0)

Introduction to the principles, practices and philosophy of the field of Counseling and Guidance, and an exploration of the various work settings where counselors are found. This is an overview of the counseling field and explores historical development as well as professional orientation of counselors and their ethics and responsibilities.

5311. Theories of Counseling. 3(3-0)

Study selected theories of counseling and their implications on selected personality and developmental theories. Various theorists have developed theories to explain and to account for human development and human behavior. All personality theories have counseling implications and this is an exploration of those counseling theories.

5312. Counseling Techniques. 3(3-0)

Designed to combine the study of theory and philosophy of individual counseling with techniques and practices in the field. This is a "hands on" course where the student is taught through practice and observation, the dynamics of providing individual counseling services. Both classroom and laboratory experiences are offered in this course.

5315. Ethics and Legal Issues in Counseling. 3(3-0)

Introduction to, and an exploration of, professional ethics in the counseling profession. Learning to deal with the professional and ethical issues that most affect the practice of counseling and related professions. A number of viewpoints will be presented to stimulate discussion, exploration and reflection.

- 5320. Education Special Problems in Guidance and Counseling.** 3(3-0)
Study of problems in designated areas approved by the university. May be repeated when the topic changes.
- 5321. Abnormal Human Behavior.** 3(3-0)
An in-depth look at the varieties of psychopathology, its etiology, classification and treatment. A look at the history and treatment of mental illness over the years with special attention to the various classification schemes and systems as they have evolved. The emphasis of this course will be to give the student skills to recognize the nature of the abnormal behavior and to determine what services, if any, the counselor might be able to provide. Proper referral services, methods and procedures will be explored.
- 5322. Substance Abuse Counseling.** 3(3-0)
Exploration of the nature of chemical dependency/addiction including alcohol and other legal and illegal substances. Also explored are related phenomena which produces and/or results in obsessive and compulsive behaviors. Implications for education, prevention, treatment and recovery will be explored. Attendance at several meetings of Alcoholics Anonymous and other 12 step programs are a part of this course.
- 5323. Group Counseling Techniques.** 3(3-0)
Designed to provide the student with an understanding of group dynamics, theories and techniques.
- 5324. Advanced Tests, Measurement and Evaluation.** 3(3-0)
Statistics, group and individual tests, standardized tests and teacher-made tests.
- 5329. Educational Research.** 3(3-0)
Use of resources, techniques and basic skills.
- 5330. Student Personnel Services in Higher Education.** 3(3-0)
Introduction to and exploration of the student personnel worker and the student personnel administrator in higher education. An overview of the historical development of the student personnel worker/administrator in the American college/university. The various duties and functions of the modern student services worker is surveyed. The development of American higher education and many current issues being played out in the nation's colleges and universities are analyzed.
- 5336. Advanced Child Growth and Development.** 3(3-0)
Application of concepts of growth, behavior and learning in child development.
- 5337. Advanced Adolescent Growth and Development.** 3(3-0)
Application of concepts of behavior, development and learning of adolescents and youth.
- 5341. Guidance: Advanced Topics.** 3(3-0)
Major problems of educational and vocational guidance covering selection, orientation, personnel, training programs, placement and re-education. Prerequisite: 6 semester hours of advanced education. May be repeated when the topic changes.

5347. Understanding and Counseling in Culturally Different Children. 3(3-0)

Cross-cultural and pluralistic counseling, the dynamics of minority ethnic group life-styles, and the uniqueness of multiethnic education.

5354. Principles and Practices in Guidance and Counseling. 3(3-0)

Philosophical, sociological and psychological principles and concepts related to guidance and counseling and the helping professions.

5355. Materials and Techniques for Career, Vocational and Occupational Education. 3(3-0)

Theories and techniques of developing, classifying, analyzing and disseminating vocational and career information.

5357. Field Practicum for Counselors. 3(3-0)

Supervised practice in the application of counseling strategies and techniques in environmental settings appropriate to the professional interests of the counselor trainee. May be repeated subsequent semester to a total of 9 semester hours. Prerequisite: 12 semester hours of graduate work in counseling.

5358. Elementary Guidance and Counseling Techniques. 3(3-0)

This course is designed to give special attention to the particular personal, social and academic needs of elementary age children.

EDUCATIONAL ADMINISTRATION (EDAD)

Advanced study in Educational Administration provides an opportunity for individuals to prepare for leadership positions in the field of education. Degrees and/or certification are available in mid-management, supervision and superintendency. Included in each course of study is a one-semester supervised internship at an approved public school. All G.P.A., ExCET and research paper requirements for a master's degree apply.

5301. Behavioral and Organizational Foundation of Education. 3(3-0)

Foundations of sociological, psychological, historical and philosophical views of education; school organization, including program of study, personnel, levels and varied approaches.

5302. Elementary and Secondary Curricula. 3(3-0)

Elementary and secondary school curriculum materials and methods problems. Lecture, discussion, library, research and seminar techniques will be employed in curriculum design.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: EDAD 5329.

- 5306. Thesis.** 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5307. School Administration: Advanced Problems.** 3(3-0)
Major problems of the school administrator. Each student will accept one major problem for a term paper. Administration credit.
- 5311. Secondary School Curriculum: Problems Course.** 3(3-0)
Secondary school curriculum materials and methods problems. Lecture, discussion, library, research and seminar techniques are employed. Methods credit.
- 5312. Supervision: Advanced Problems.** 3(3-0)
Major problems of supervision. Students explore problems related to professional development and assessment. Administration credit.
- 5313. School Administration: Public School Finance.** 3(3-0)
Theory and practices including federal, state and local levels. Theory and practices in taxing and budgeting with emphasis on Texas system. Administration credit.
- 5315. Administration of the Various Special Programs in Education with Emphasis on Reading; Career Education; Vocational Technical Administration Special Education.** 3(3-0)
Administration of the various special staff and pupil personnel services offered in the public schools, including guidance, health, attendance, reading, career education, vocational technical administration and special education.
- 5317. Workshop: Advanced School Problems.** 3(3-0)
Contemporary school administration problems. Administration credit.
- 5320. Education: Special Problems.** 3(3-0)
Study of school problems in designated areas as approved by the university. May be repeated for credit when topic changes.
- 5330. Multicultural Education for Educators.** 3(3-0)
Examines multicultural relations in American society and explores solutions to critical problems confronting schools into the twenty-first century. Prerequisites: basic computer literacy required. Admission in graduate education required.
- 5341. School Administration.** 3(3-0)
School systems with emphasis upon cooperation of school boards with superintendents, principals and teachers; the relation of the school to the community as a whole. Administration credit.

- 5342. Principalship - Elementary and Secondary Schools.** 3(3-0)
Administration and supervision of the elementary and secondary school; function, organization, physical equipment; classroom, homeroom and extra-room activities. The teacher's functions, qualifications and selection receive major attention.
- 5343. Administration: Secondary Education.** 3(3-0)
Administration of the secondary school. Function, organization, physical equipment curriculum, methods of teaching, pupil personnel, guidance, school activities, faculty qualifications and selection receive major attention. Administration credit.
- 5344. Supervision.** 3(3-0)
The purpose and methods of effective school supervision. Focus on instructional leadership development. General administration.
- 5345. Internship in School Administration.** 3(3-0)
On-the-job projects for the purpose of practical application of administrative tasks.
- 5351. Staff and Pupil Personnel Administration.** 3(3-0)
Principles and practices of administration as it concerns selecting and retaining school personnel and administering the pupil personnel program. Placement, job analysis and evaluation, salaries, fringe benefits, maintenance of morale, collective bargaining and student performance are addressed.
- 5352. Educational Facilities Planning.** 3(3-0)
Creative and systematic planning of school facilities focusing on translation of psychological and educational needs into physical form and design. Development of educational specification, survey techniques, space allocation organization and conditioning with relationship to curriculum processes.
- 5381. Administration and Management of Special Programs.** 3(3-0)
Problems in administering and managing special programs in public schools such as vocational and technical education, special education, career education and other special areas.
- 5382. School Public Relations.** 3(3-0)
Processes and effects of communications between the public schools and their communities.
- 5383. Public School Law.** 3(3-0)
Federal and state legal regulations as they relate to public school administration.
- 5384. Advanced Problems in the Superintendency.** 3(3-0)
Current problems in the school superintendency are studied in depth.
- 5385. Superintendency Internship.** 3(3-0)
Practical application of tasks in the area of the superintendent.

HEALTH AND KINESIOLOGY

Mike Daniel, *Graduate Coordinator*

Health and Recreation Building 210. MSC 198. Extension 3101.

Graduate Faculty: Mike Daniel, William Wirt Edwards, G. Richard Grimes, Christopher M. Hearon, Alberto Ruiz, Nestor W. Sherman, Melody R. Yarbrough

The mission of the M.S. in Kinesiology program is to promote the study of health/fitness/wellness, sport administration, pedagogy and exercise science through teaching, research and service in health and kinesiology. The program seeks to advance the kinesiology disciplines through the discovery and dispersion of human movement-related knowledge. A critical aspect of these efforts is to provide students with the knowledge and skills for advanced study or careers in the health- and kinesiology-related fields, and develop graduates who are strong in character and lifelong learners.

Advanced study in health and kinesiology provides students an opportunity to improve their proficiency as master teachers or as exercise professionals, can prepare them to become administrators in their fields and/or can prepare them for doctoral studies in their kinesiology discipline of interest. The Department of Health and Kinesiology offers coursework leading to the M.S. in Kinesiology with a flexible curriculum to meet the specific needs and interest of the student. The degree may be pursued under a 30-credit hour thesis program (Plans I-A or I-B) or a 36-credit hour program requiring a research project (Plans II and III). Plans I-A, II and III also afford students the opportunity to take coursework in a resource area(s) or supporting field. Students may pursue a kinesiology generalist degree or they may choose to tailor their major elective, resource area(s), supporting field coursework and/or research so that their degree plan emphasizes sport administration/kinesiology pedagogy or health/exercise science.

The requirements for admission to the M.S. in Kinesiology program are as follows:

1. Applicants must meet requirements for admission to the College of Graduate Studies , including GPA and GRE/MAT requirements specific to the College of Education.
2. Applicants must demonstrate the ability to communicate in writing at the level required to enable successful progression through the M.S. in Kinesiology Program.
3. Applicants must have undergraduate education in health, kinesiology or a related area.
 - a. An applicant who holds a bachelor's degree in kinesiology or related area from a regionally accredited college or university is eligible for admission into the program if his/her performance in critical undergraduate coursework is deemed acceptable. An applicant who lacks certain critical coursework or whose performance in certain critical coursework is deemed unacceptable might be required to complete prerequisite undergraduate coursework prior to or early in his/her graduate coursework.
 - b. An applicant who holds a bachelor's degree from a regionally accredited college or university in an area unrelated to kinesiology may be considered for admission to the program if he/she has completed at least 18 credit hours of kinesiology-related

undergraduate coursework. Of these 18 credit hours, at least 12 credit hours must be advanced. Additionally, the 18 credit hours must reflect acceptance performance in an adequate number of courses deemed to be critical coursework. An applicant who lacks certain critical coursework or whose performance in certain critical coursework is deemed unacceptable might be required to complete prerequisite undergraduate coursework prior to or early in his/her graduate coursework.

4. Applicants must have a sincere interest in sports administration, kinesiology pedagogy, health/fitness and/or the exercise sciences.
5. Applicants must have demonstrated a high-level of professional and ethical conduct during their academic career to date.
6. Applicants, especially those whose qualifications are marginal, are encouraged to request letters of recommendation from their undergraduate professors. Letters of recommendation should be forwarded directly to the program coordinator.

HEALTH (EDHL)

5311. Scientific Foundations of Health Education.

3(3-0)

To identify, relate, apply and evaluate scientific materials relevant to scientific foundations of Health Education.

5321. Critical Analysis of Current Issues in Health Education.

3(3-0)

Contemporary issues and modern-day problems are identified and thoroughly analyzed through extensive reading and discussion.

5322. Seminar in Selected Topics.

3(3-0)

Contemporary issues are identified and analyzed through intensive investigation. Examples of topics include human sexuality, drug education, family abuse and AIDS. May be repeated for credit as topics change.

KINESIOLOGY (EDKN)

5301. Sports Coaching and Officiating.

3(3-0)

Coaching and coaching strategies, officiating and conducting of sports and athletic programs. Prerequisite: coaching and officiating experience or 4 semester hours of undergraduate coaching and officiating techniques; program majors must have 12 advanced hours in the field.

5303. Teaching College Physical Education.

3(3-0)

The basic instructional and co-curricular program of physical education for colleges and universities.

- 5305. Graduate Research Project.** 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.
- 5306. Thesis.** 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5308. Administration of Athletics.** 3(3-0)
The problems, basic procedures and current practices involved in the administration of interscholastic, intercollegiate and professional athletics.
- 5309. Organization and Administration of Kinesiology Programs.** 3(3-0)
Principles, practices and applied procedures in the organization, administration and supervision of school physical education programs.
- 5312. Physiology of Exercise.** 3(3-0)
Investigates the effects of physical exercise on the function of the human body and physiological responses to exercise that are dependent on its intensity, duration and frequency and the physiological status of the individual and environmental circumstances.
- 5315. Current Issues and Trends in Kinesiology Programs.** 3(3-0)
Examines contemporary problems in kinesiology. Prerequisite: program majors must have 12 advanced hours in the field.
- 5316. History and Philosophy of Sport and Human Performance.** 3(3-0)
Examines the historical and philosophical perspectives of kinesiology. Prerequisite: program majors must have 12 advanced hours of kinesiology.
- 5317. Research in Kinesiology.** 3(3-0)
Introduction to research in kinesiology. Prerequisite: program majors must have 12 advanced hours of kinesiology or EDKN 5338. EDKN 5338 may be corequisite.
- 5333. Seminar in Selected Topics.** 3(3-0)
Special problems in kinesiology, recreation or athletics are identified and researched. May be repeated for credit as topics change. Prerequisite: program majors must have 12 advanced hours in the field. Contact Program Coordinator for specific topics offered.
- 5338. Statistical Analysis of Research Data.** 3(3-0)
The statistical analysis and interpretation of research data in health, kinesiology and recreation. Concentration is on the concepts underlying the various statistical tests. Prerequisite: EDKN 4311 or equivalent.

5384. Driver and Traffic Safety Education I.

3(3-0)

Critical analysis of traffic accidents, attitude factors, essential knowledge of automobile operations and traffic laws and regulations. Included are laboratory, experiences and developing skills. Prerequisite: Texas driver's license, two years driving experience. Prerequisite: program majors must have 12 advanced hours in the field.

MASTER'S PROGRAMS IN ENGINEERING

The Frank H. Dotterweich College of Engineering offers the Master of Science degree with a major in Engineering, Industrial Management or Computer Science. The engineering majors include Chemical, Electrical, Environmental, Industrial, Mechanical and Natural Gas Engineering. The college also offers the Master of Engineering degree, which is further explained below. The Master of Science degree is a Plan I, Plan II or Plan III program requiring the completion of 30 to 36 semester hours of graduate work in Engineering, including the thesis on the Plan I program. The Plan I degree is recommended for those interested in research or those wishing to work toward a doctoral degree. Detailed requirements for each of the plans are described in the general section of this catalog. Specifics of the Master of Engineering degree are explained below.

Master of Engineering

The Master of Engineering degree is a special program intended to prepare students for professional careers in engineering and to provide the opportunity for advanced studies to practicing engineers. Students who intend to continue academic work toward a doctoral degree are urged to see the Master of Science degree with a major in engineering. The Master of Engineering degree requires the completion of 36 semester hours of approved graduate work. At least three-fourths of the hours must be at the 5000 level. Registration as a Professional Engineer in the State of Texas may qualify a person to complete this degree in 30 semester hours.

Twenty-one hours of course work must be in the field of engineering; 6 of those hours must be in the candidate's field of engineering practice. Fifteen of the hours must be at the 5000 level, and 6 may be at the 4000 level. The remaining 15 hours may be chosen from the fields of engineering, mathematics, science and business administration.

The candidate's course work requirements will be approved through consensus of the candidate and the Master of Engineering guidance committee. With the approval of the guidance committee, a candidate may be allowed to transfer, for degree credit, college course credits usable for graduate studies, not to exceed 15 semester hours. Additional stem work above the 36 semester hours requisite for the degree may be required by the guidance committee to ensure that students have sufficient background for the courses in their degree plans. The committee will consist of one representative from each of the professional degree areas presently offered by the Frank H. Dotterweich College of Engineering.

A research or design project and report will be required. This is defined as a research paper or design project produced as a major assignment in a 3 hour graduate 5000 level course or by completing 3 hours of 5305 Research. A comprehensive examination shall be passed by the candidate, consisting of an oral defense of the candidate's design or research project and related areas.

Before the granting of this degree the candidate will have spent a minimum of four years of full-time professional activity of an engineering nature and quality acceptable to the guidance committee.

Admission to any of the graduate programs in the Frank H. Dotterweich College of Engineering requires a baccalaureate degree and adequate course work in the field of interest and a satisfactory score on the GRE Aptitude test.

CHEMICAL ENGINEERING AND NATURAL GAS ENGINEERING

Robert W. Serth, *Graduate Coordinator (Chemical Engineering)*

Engineering Complex 339. MSC 193. Extension 2093.

Ali Pilehvari, *Graduate Coordinator (Natural Gas Engineering)*

Engineering Complex 303. MSC 193. Extension 2089.

Graduate Faculty: Faleh T. Al-Saadoon, Sangyong Lee, Patrick Mills, Ali Pilehvari, Robert W. Serth.

Associate Member: John L. Chisholm

The objectives of the graduate studies in the Chemical and Natural Gas Engineering programs are as follows.

1. To prepare students for successful careers and major contributions to the petroleum and chemical process industries by instilling in them fundamental concepts as well as practical knowledge of modern engineering to overcome current as well as future challenges of the industries.
2. To prepare students for doctoral study in petroleum/chemical or related disciplines.
3. To instill in students a sense of responsibility to their profession and to society in general.

The Wayne H. King Department of Chemical Engineering and Natural Gas Engineering offers programs in developing interdisciplinary specialties, as well as in the more traditional areas of Chemical and Natural Gas Engineering.

Several modern engineering buildings contain laboratories, including unit operations, process control, gas measurement and drilling facilities. Excellent computer facilities also are available.

CHEMICAL ENGINEERING (CHEN)

5303. Advanced Topics in Chemical Engineering.

V:1-3

One or more advanced topics. May be repeated for a maximum of 6 semester hours when topic changes.

5305. Graduate Research Project.

3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

- 5306. Thesis.** 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5308. Transport Processes.** 3(3-0)
An advanced and unified treatment of fluid mechanics and heat transfer, stressing the fundamental equations of momentum and energy transport and their applications in chemical engineering.
- 5309. Separation Processes.** 3(3-0)
A basic understanding of the concepts underlying the solution, behavior and computation of separation processes is stressed. Both staged and continuous separation methods are considered. (Credit may not be obtained in both CHEN 5309 and NGEN 5309.)
- 5311. Chemical Process Design and Economics.** 3(3-0)
A comprehensive treatment of process design problems with emphasis on the engineering economics of the chemical process industry.
- 5314. Optimization of Chemical Processes.** 3(3-0)
Optimization techniques and their application in the chemical and petroleum industries. (Credit may not be obtained in both CHEN 5314 and NGEN 5314.)
- 5331. Simulation and Analysis of Chemical Engineering Processes.** 3(3-0)
Analytical and numerical techniques for the simulation and analysis of processes and equipment employed in the chemical and petroleum industries.
- 5333. Chemical and Catalytic Reaction Engineering.** 3(3-0)
Analysis of various interactions between physical and chemical rate processes and their influences on the design and control of chemical reactors.
- 5334. Biochemical Engineering.** 3(3-0)
Kinetics of microbial growth and enzyme-catalyzed reactions, mass transfer in bioprocess systems, design and analysis of biological reactors and the recovery of products from such operations.
- 5336. Rheology.** 3(3-0)
The study of non-Newtonian fluid flow behavior. Designed to provide a comprehensive understanding of theoretical as well as practical aspects of the flow of non-Newtonian fluids. (Credit may not be obtained in both CHEN 5336 and NGEN 5336.)
- 5360. Advanced Natural Gas Processing.** 3(3-0)
Study of the latest processes that are utilized in the natural gas industry. It includes analysis, design and optimization of various natural gas processes with considerations of economics, environmental and safety aspects. (Credit may not be obtained in both CHEN 5360 and NGEN 5360.)

5361. Advanced Process Dynamics and Control. 3(3-0)
Fundamentals of modern process control theory are covered and applied to control applications in the chemical and petroleum industries. (Credit may not be obtained in both CHEN 5361 and NGEN 5361.)

5371. Advanced Chemical Engineering Thermodynamics. 3(3-0)
The general equations of multicomponent-multiphase systems, with application to phase equilibria and chemical reaction equilibria. Prerequisite: CHEN 3371.

5401. Advanced Problems in Chemical Engineering. V:1-4
Individual or group research on advanced problems conducted under the supervision of a faculty member. Maximum credit 8 semester hours.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **CHEN 4278-CHEN 4279.** Unit Operations Laboratory. **CHEN 4373.** Kinetics and Reactor Design. **CHEN 4381.** Energy Conversion and the Environment. **CHEN 4383.** Natural Gas Processes. **CHEN 4386.** Air Pollution Control. **CHEN 4388.** Process Heat Transfer. **CHEN 4389.** Mass Transfer Phenomena.

NATURAL GAS ENGINEERING (NGEN)

5303. Advanced Topics in Natural Gas Engineering. V:1-3
One or more advanced topics. May be repeated for a maximum of 6 semester hours when topic changes.

5305. Graduate Research Project. 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5309. Separation Processes. 3(3-0)
A basic understanding of the concepts underlying the solution, behavior and computation of separation processes is stressed. Both staged and continuous separation methods are considered. (Credit may not be obtained in both NGEN 5309 and CHEN 5309.)

- 5310. Petroleum Property Evaluation.** 3(3-0)
The application of theoretical and practical principles for the evaluation of oil and gas properties and the qualification of risk and uncertainty in petroleum exploration through decision analysis.
- 5311. Two-Phase Flow.** 3(3-0)
The simultaneous flow of gases and liquid through vertical and horizontal conduits and through porous media. Special emphasis is placed on the applications encountered in the natural gas industry.
- 5312. Pressure Transient Analysis.** 3(3-0)
Methods of analysis of pressure transient data obtained from well testing for the purpose of determining in situ reservoir characteristics and conditions.
- 5313. Cryogenic Engineering.** 3(3-0)
The theory and design of equipment for the production and handling of liquefied natural gas and other cryogenic materials.
- 5314. Optimization of Chemical Processes.** 3(3-0)
Optimization techniques and their application in the chemical and petroleum industries. (Credit may not be obtained in both NGEN 5314 and CHEN 5314.)
- 5325. Natural Gas Production and Distribution.** 3(3-0)
Theory, design and methods of gas well testing and production. Distribution topics include pipeline and compressor design and flow measurement. Prerequisite: CHEN 3392 or equivalent.
- 5327. Natural Gas Drilling Engineering.** 3(3-0)
Drilling equipment and methods, drilling fluids, completion of wells including casing and cementing design. Prerequisite: CHEN 3392 or equivalent.
- 5336. Rheology.** 3(3-0)
The study of non-Newtonian fluid flow behavior. Designed to provide a comprehensive understanding of theoretical as well as practical aspects of the flow of non-Newtonian fluids. (Credit may not be obtained in both NGEN 5336 and CHEN 5336.)
- 5360. Advanced Natural Gas Processing.** 3(3-0)
Study of the latest processes that are utilized in the natural gas industry. It includes analysis, design and optimization of various natural gas processes with considerations of economics, environmental and safety aspects. (Credit may not be obtained in both NGEN 5360 and CHEN 5360.)
- 5361. Advanced Process Dynamics and Control.** 3(3-0)
Fundamentals of modern process control theory are covered and applied to control applications in the chemical and petroleum industries. (Credit may not be obtained in both NGEN 5361 and CHEN 5361.)

- 5363. Advanced Reservoir Engineering.** 3(3-0)
Phase relations of hydrocarbon systems, material balance methods, flow in reservoirs and displacement of gas. The application of computers to reservoir engineering.
- 5387. Quantitative Well-Log Analysis.** 3(3-0)
Theory of special well-logging techniques and applications.
- 5401. Advanced Problems in Natural Gas Engineering.** V:1-4
Individual or group research on advanced problems conducted under the supervision of a faculty member. Maximum credit of 8 semester hours.

CIVIL ENGINEERING

Joseph Sai, *Graduate Coordinator* (Civil Engineering)
Engineering Complex 366. MSC 194. Extension 2267.

Graduate Faculty: Mohammed A. Faruqi, Pat Leelani, Joseph O. Sai

Associate Members: Francisco Aguiniga, Breanna M. Bailey, Dazhi Sun

CIVIL ENGINEERING (CEEN)

The graduate program in Civil Engineering is designed to enhance the fundamental concepts and practical knowledge of modern engineering. The program will prepare students for immediate engineering challenges with a lifetime of professional advancement and provide students with an educational background to cope with future technological advancements as well as the ability to pursue Ph.D. studies.

- 5303. Advanced Topics in Civil Engineering.** V:1-3
One or more advanced topics. May be repeated for a maximum of 6 semester hours.
- 5305. Graduate Research Project.** 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.
- 5306. Thesis.** 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5310. Theory of Elasticity.** 3(3-0)
Introduction to index and tensor notations; discussion of the concept of stress, strain, deformations, strain compatibility and constitutive relations; formulation and solution of extension, bending, torsion and two-dimensional elasticity problems. (Credit may not be obtained in both CEEN 5310 and MEEN 5320.)

- 5311. Advanced Reinforced Concrete Design.** 3(3-0)
Analysis and design of flat plate, flat slab and two-way slab systems for gravity loads and lateral loads. Yield line theory of slabs. Deep beams, shear-friction, brackets and corbels. Length effects on braced and unbraced columns. Prerequisite: CEEN 3304.
- 5312. Engineering Reinforced Concrete Slabs.** 3(3-0)
Elastic plate theory, finite difference, behavior of two-way slabs, ACI code design methods, upper and lower bound methods, serviceability, shear strength, pre-stressed slabs. Prerequisite: graduate standing in engineering.
- 5313. Numerical Methods in Civil Engineering.** 3(3-0)
Numerical methods for advanced analysis and design applications in Civil Engineering. Prerequisite: MATH 5372. (Credit may not be obtained for both CEEN 5313 and MEEN 5313.)
- 5314. Finite Element Methods in Engineering.** 3(3-0)
Principles and applications of the Finite Element Method: energy based variational principle methods, the principles of virtual work, weighted residual methods. Emphasis on structural and nonstructural elements and applications. Prerequisite: CSEN 2304 or equivalent and graduate standing.
- 5315. Hydraulics of Open Channels.** 3(3-0)
Application of momentum and energy principles to advanced topics in uniform, nonuniform, gradually varied and rapidly varied flow problems. Backwater flow profile computation in steady flow. The method of characteristics applied to unsteady flows. Jeffreys-Verdernikov criteria. Flood routing calculations by advanced computer methods. Prerequisite: CEEN 3392 or CHEN 3392.
- 5316. Engineering Mechanics of Fiber Composites.** 3(3-0)
Introductions of basic composite material technologies, properties of classic laminate theory, transformation of stresses and strains, failure theories, performance under adverse conditions, structural design considerations, computer applications, application of composites to concrete structures and practical case studies. Prerequisite: graduate standing in engineering.
- 5320. Foundation Engineering I.** 3(3-0)
Engineering characteristics of soils, consolidation, soil strength and bearing capacity for the analysis and design of spread and continuous footings, compensated foundations and deep foundations. Prerequisite: graduate standing in engineering.
- 5321. Structural Dynamics.** 3(3-0)
Dynamic disturbances, such as earthquakes and blasting. Vibration of beams, frames and floor systems; response to various types of external disturbances; energy methods. Prerequisite: MEEN 3355.

- 5322. Foundation Engineering II.** 3(3-0)
Engineering characteristics of soils, soil strength, lateral earth pressure theories, analysis of braced walls for excavation, retaining walls, sheet-pile walls and cofferdams. Prerequisite: graduate standing in engineering.
- 5333. Advanced Strength of Materials.** 3(3-0)
Torsion of noncircular sections, membrane theory of shells, bending of plates and beams on elastic foundations. Two dimensional elasticity theory. Prerequisite: CEEN 3311.
- 5335. Prestressed Concrete.** 3(3-0)
Principles and methods of design of members subject to linear prestressing; time-dependent variables and long-time deflections. Prestressed columns. Prerequisite: CEEN 3304.
- 5337. Advanced Structural Analysis.** 3(3-0)
Theorems of external work and internal strain energy. Classical methods of analysis. Continuous girders and frames with variable moments of inertia. Influence lines for redundant reactions. Analysis of sideways by moment distribution. Introduction to matrix analysis of structures. Prerequisite: CEEN 3303.
- 5340. Water Resources Engineering.** 3(3-0)
Comprehensive integration of engineering, economics, environmental, legal and political considerations in water resources development and management, current issues and future direction for planning and management of water resources.
- 5350. Transportation Engineering I.** 3(3-0)
Profession of transportation, transportation industry-systems and organizations, modes of transportation and their characteristics, transportation planning, forecasting travel demand by mode, evaluation of transportation alternatives including economic criteria, transportation systems management.
- 5355. Groundwater Hydrology.** 3(3-0)
An applied course dealing with groundwater hydrology and its interrelation with surface water, water well design, well pumps, well hydraulics, pumping tests and safe yield of aquifers, artificial recharge, flow nets, salt water intrusion and some modeling of groundwater flow. Prerequisites: CEEN 3392 or CHEN 3392.
- 5356. Physicochemical Treatment of Water and Wastewater.** 3(3-0)
Theory and fundamentals of physical and chemical unit processes used for water and wastewater treatment. Process analysis, water quality criteria and standards and pertinent journal articles are reviewed. Prerequisite: B.S. in Civil or Chemical Engineering.
- 5360. Advanced Structural Engineering.** 3(3-0)
Initial value problems, elasticity preview, basic energy principles and applications to pin-connected structures, calculus of variation, applications to plates, stability, applications to dynamics. Prerequisite: graduate standing in engineering.

5361. Advanced Structural Steel Design. 3(3-0)

Design of steel structural members, including composite beams, plate girders and connections following the AISC LRFD specifications, economy evaluation of building design and design of frame structures including second order effects. Prerequisite: graduate standing in engineering.

5368. Biological Treatment of Wastewater. 3(3-0)

Analysis of biological unit processes used to treat wastewater. General models for suspended growth and fixed film biological systems are developed using the mass balance concept. Review of pertinent journal articles. (Credit may not be obtained for both CEEN 5368 and EVEN 5326.)

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **CEEN 4316.** Structural Steel Design. **CEEN 4362.** Hydrology.

ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Lifford McLauchlan, *Graduate Coordinator (Electrical Engineering)*

Engineering Complex 306. MSC 192. Extension 4418.

Donald A. Varvel, *Graduate Coordinator (Computer Science)*

Engineering Complex 334. MSC 192. Extension 3786.

Graduate Faculty: Rajab Challoo, Chung S. Leung, Lifford McLauchlan, Reza Nekovei, Iqbal Omar, Sung Park, Barbara Schreur, Donald Varvel

Associate Members: Wei-Da Hao, Amit Verma, Muhittin Yilmaz, Nuri Yilmazer, Lee Young

Graduate Program Objective

The objective of the graduate electrical engineering and computer science programs is to produce graduates with broad and up-to-date knowledge, skills and judgment, prepared for professional careers in industry and/or further studies that emphasize advanced design, development and research methods.

The Master of Science degree is available in both Electrical Engineering and Computer Science.

The facilities of the department include laboratories for work in electronics, microwaves, controls and dynamic systems, microcomputer system development and a wide range of digital and analog computational facilities ranging from a large mainframe time-shared computer to numerous microcomputer systems.

COMPUTER SCIENCE (CSEN)

5303. Advanced Topics in Computer Science.

V:1-3

One or more advanced topics. May be repeated when topic changes. (Credit may not be obtained for both CSEN 5303 and EEEN 5303 courses if the topic is the same.)

5304. Advanced Computer Architecture.

3(3-0)

Introduces the design principles of modern computers. The topics include RISC and CISC architecture, interconnection networks, multiprocessors and multicomputer systems, dataflow and systolic arrays, future outlook for architectures and the basics of parallel algorithms. Credit may not be obtained in both CSEN 5304 and EEEN 5304.

5305. Graduate Research Project.

3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis.

3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5313. Compiler Design.

3(3-0)

This course introduces the structure of a compiler and the various techniques used for designing a compiler. Topics include grammars, parsing methods, implementation details and translator writing systems. Prerequisite: CSEN 4366.

5314. Database Systems.

3(3-0)

Basic concepts and architecture of database systems, ER model, relational model, relational algebra, SQL, ER-to-rational mapping, functional dependencies normalization, database design process, object-oriented database. Distributed database. Prerequisite: graduate standing in computer science or another engineering discipline.

5322. Operating Systems.

3(3-0)

Operating systems principles; procedures and their implementation; protection, concurrent, cooperating and communicating processes; storage management; resource allocation; scheduling; file systems; and system design issues. Prerequisite: CSEN 4362.

5323. Computer Communication Networks.

3(3-0)

The International Standards Organization (ISO) Open Systems Interconnection (OSI) model as a framework for the study of computer communication networks. Data communication. Functions and protocols of physical layer, medium access sublayer, link layer, network layer and transport layer. Case studies. ISDN. Prerequisite: graduate standing in computer science or electrical engineering.

5325. Software Engineering. 3(3-0)

Covers development life-cycle models, inspection process, software quality metrics, testing, validation metrics, estimation and scheduling. Prerequisite: graduate standing in engineering.

5333. Real Time Systems. 3(3-0)

Characteristics of systems and techniques used in real time computer applications. Scheduling theory, verification and design techniques including simulation and probabilistic models. Prerequisite: graduate standing.

5334. Algorithmic Graph Theory and Perfect Graphs. 3(3-0)

Introduction to new results in algorithmic graph theory and perfect graphs. Presentation of algorithms and applications associated with different structured families of graphs. Survey of new research directions. Prerequisite: graduate standing.

5336. Analysis of Algorithms. 3(3-0)

Introduction of the design and analysis of computer algorithms. Topics include asymptotic efficiency; a survey of useful algorithms for sorting, information retrieval and graphs; paradigms for algorithm design; and a brief introduction to complexity classes including NP. Prerequisite: graduate standing.

5337. Theory of Computation. 3(3-0)

Examination of Turing machine theory; decidability; reduction of one problem to another; complexity theory and NP-completeness. Analysis of the intrinsic difficulty of entire classes of problems. Prerequisite: graduate standing.

5339. Embedded System Design. 3(3-0)

Embedded system architecture and programming. Role of microprocessors, input/output, analog and digital interfacing and peripherals in hardware integration. (Credit may not be obtained for both CSEN 5339 and EEEN 5339. Prerequisites: EEEN 5333, EEEN 5330 (or approval of instructor).

5350. Application of Neural Networks. 3(3-0)

Includes a review of network architectures, perceptron, linear networks, back-propagation and radial basis networks. A real-time laboratory experience in seeing the application of neural networks. Prerequisite: graduate standing in Computer Science. (Credit may not be obtained in both CSEN 5350 and EEEN 5350.)

5401. Advanced Problems in Computer Science. V:1-4

Individual or group research on advanced problems conducted under the supervision of a faculty member. Maximum credit 8 semester hours.

ELECTRICAL ENGINEERING (EEEN)

5303. Advanced Topics in Electrical Engineering. V:1-3

One or more advanced topics. May be repeated when topic changes. (Credit may not be obtained in both EEEN 5303 and CSEN 5303 courses if the topic is the same.)

- 5304. Advanced Computer Architecture.** 3(3-0)
 Introduces the design principles of modern computers. The topics include RISC and CISC architectures, interconnection networks, multiprocessors and multicomputer systems, dataflow and systolic arrays, future outlook for architectures and the basics of parallel algorithms. Credit may not be obtained in both EEEN 5304 and CSEN 5304.
- 5305. Graduate Research Project.** 3
 A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.
- 5306. Thesis.** 3
 This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5321. Digital Computer Design.** 3(3-0)
 Register operations, arithmetic operations, control of operations, memory systems, methods of input and output. Examples of commercial systems, system design of a general purpose computer. Prerequisite: EEEN 4355.
- 5324. Control System Synthesis.** 3(3-0)
 Actuators and transducers, static and dynamic accuracy of systems, describing functions, compensation, design of typical control systems. Prerequisite: EEEN 4354.
- 5326. Dynamic Systems I.** 3(3-0)
 Mathematical analysis of engineering, dynamic systems. Modeling, simulation, transfer functions, state variables, stability of linear systems. Prerequisite: MATH 3320.
- 5327. Dynamic Systems II.** 3(3-0)
 Continuation of Dynamic Systems I. Nonlinear systems, discrete time systems, control of engineering systems, methods of optimization. Prerequisite: EEEN 5326.
- 5330. Rapid Prototyping and ASIC Design.** 3(3-0)
 Principles of electronic system design using Application-Specific Integrated Circuits (ASIC) approach: digital hardware modeling techniques using an HDL, logic simulation, logic synthesis, standard cells, gate arrays, sea of gates, bit serial hardware design methods and analog methods.
- 5331. Digital Signal Processing.** 3(3-0)
 Digital processing of signals, z-transform, digital filters, discrete and fast Fourier transforms, power spectrum, autocorrelation, cepstrum analysis.

- 5333. Principles of VLSI Circuit Design.** 3(3-0)
Principles of design and fabrication of microelectronic circuits via Very Large Scale Integrated circuitry (VLSI), structured design methods for VLSI systems, use of computer-aided design tools, design projects of small to medium scale integrated circuits. Prerequisite: EEEN 3338 or equivalent.
- 5335. Microcomputer Based Design.** 3(3-0)
Role of microcomputers, register and data manipulation, hardware, memory, input/output, hardware and software development, algorithmic processes. Prerequisite: CSEN 3361.
- 5336. Computer Communication Networks.** 3(3-0)
The International Standards Organization (ISO) Open Systems Interconnection (OSI) model as a framework for the study of computer communication networks. Data communication. Functions and protocols of physical layer, medium access sublayer, link layer, network layer and transport layer. Case studies. ISDN. Prerequisite: graduate standing in computer science or electrical engineering.
- 5337. Digital Image Processing.** 3(3-0)
Introduces the computer vision systems. Topics include edge detection, spatial-domain processing, frequency-domain processing, color processing, texture analysis, shape analysis and making movies from a deck of frames.
- 5338. Digital and DSP Based Control.** 3(3-0)
Classical and modern control analysis and design methods and techniques. Topics include discrete control system analysis, sampled data systems, discrete equivalents of continuous systems, design using transform techniques, design using state-space methods and the real-time control of dynamic systems using digital computers and micro-controllers. Prerequisite: EEEN 4354 or consent of instructor.
- 5339. Embedded System Design.** 3(3-0)
Embedded system architecture and programming. Role of microprocessors, input/output, analog and digital interfacing and peripherals in hardware integration. (Credit may not be obtained for both EEEN 5339 and CSEN 5339. Prerequisites: EEEN 5333, EEEN 5330 (or approval of instructor).
- 5340. Speech Processing.** 3(3-0)
Fundamentals of digital signal processing, waveform coding, speech spectrum, voice coders, linear predictive coding, speech recognition, adaptive noise cancellation and multirate signal processing.
- 5341. Advanced Digital Integrated Circuits.** 3(3-0)
Advanced concepts of circuit design for digital Very Large Scale Circuitry (VLSI) components in state-of-the-art Complementary Metal Oxide Semiconductor (CMOS) technologies. Emphasis is on the design and optimization of high-speed (high performance devices), high density (heterogeneous systems on a chip) and low-power (portable applications) integrated circuits. Prerequisites: EEEN 5330, EEEN 5333 (or approval of instructor).

5350. Application of Neural Networks. 3(3-0)
Includes a review of network architectures, perceptron, linear networks, back-propagation and radial basis networks. A real-time laboratory experience in seeing the application of neural networks. Prerequisite: graduate standing in Computer Science. (Credit may not be obtained in both EEEN 5350 and CSEN 5350.)

5401. Advanced Problems in Electrical Engineering. V:1-4
Individual or group research on advanced problems conducted under the supervision of a faculty member. Maximum credit 8 semester hours.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following undergraduate advanced courses have been approved by the Graduate Council for graduate credit: **EEEN 4329.** Communications Engineering. **EEEN 4354.** Linear Control Systems. **EEEN 4355.** Digital Systems Engineering. **EEEN 4356.** Data Acquisition Systems.

ENVIRONMENTAL ENGINEERING

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Graduate Faculty: Lee Clapp, Kuruvilla John, Kim D. Jones, Alvaro I. Martinez, David Ramirez, Jianhong Ren, Venkatesh Uddameri, Yifang Zhu

ENVIRONMENTAL ENGINEERING (EVEN)

The Environmental Engineering Program is an interdisciplinary program which prepares graduate students for professional careers in one or more of the following areas: Air Quality, Water Quality, Solid/Hazardous Waste, Ecological Engineering, Environmental and Occupational Health, Environmental Systems, Environmental Informatics and Environmental Biotechnology. There are state-of-the-art laboratories and computer facilities available for research and teaching.

Environmental Engineering master's students are eligible to take doctoral level environmental engineering courses as part of their degree plan, and two or more electives from the environmental engineering curricula or other disciplines with committee approval.

5199. Environmental Engineering Graduate Seminar. 1(1-0)
Fifty minute lectures, with question and answer session, given by guest lecturer presenting materials and talks pertinent to environmental issues. Speakers will represent government agencies, private corporations, chemical manufacturers, consulting firms and universities; all experts in their subject. Prerequisite: graduate standing in EVEN or related discipline.

5306. Thesis. 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5330. Mathematical Modeling of Water Quality. 3(3-0)
Ecological and human effects assessment; environmental decision criteria; monitoring strategies; environmental exposure assessment; development of pollutant transport, fate and persistence models; model parameter estimation. Prerequisite: CEEN 3365 or equivalent.

5331. Air Quality Modeling. 3(3-0)
Discussion of air pollution, meteorology and modeling. Introduction to numerical analysis techniques and computer models for the prediction of atmospheric pollution and air quality. Development of atmospheric dispersion models for air pollution problems. An overview of urban and regional air quality models and applications. Prerequisites: CEEN/CHEN 3392 or equivalent.

INDUSTRIAL MANAGEMENT (IMEN)

Farzin Heidari, *Graduate Coordinator*
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Graduate Faculty: Farzin Heidari, Bruce Marsh

The Master of Science in Industrial Management is an interdisciplinary program that prepares graduates to assume leadership roles and positions in a variety of industrial, processing, and/or construction industries. The program will familiarize students with philosophies and strategies currently used for improving production and provide students with further technical knowledge in areas such as quality assurance, industrial safety, and automated production. Students will also become familiar with research methods and techniques commonly used to solve problems in industrial settings.

5300. Industrial Operations and Research Methods. 3(3-1)
Examination of data collection and analysis with an emphasis on distributions, probability, simple and multiple regression, ANOVA and other statistical analysis technique. Statistical concepts are reinforced using industry-related data and a well known and widely used data analysis software program. Prerequisite: ITEN 4352 or ITEN 4362 or consent of instructor.

5301. Industrial Management. 3(3-0)
Concepts and techniques used by supervisors in industrial settings. Effective supervisory strategies to combat global competition will also be covered.

5305. Graduate Research Project. 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5315. Constraint Management and Mistake Proofing. 3(3-0)

An examination of constraint management principles, strategies and concepts as they relate to industrial settings. Also includes an exploration of the tools and techniques that can be used to: (a) measure production performance, (b) overcome core production problems and (c) integrate solutions into business planning and decision making.

5320. Special Topics in Industrial Management. V:1-3

Courses will concentrate on themes not present in the current IMEN curriculum. May be repeated for a maximum of 6 semester hours when topic changes.

5322. Industrial Scheduling. 3(3-0)

Analysis of both industrial methods and managerial issues related to operations management. Topics will be tied to increasing efficiency, reducing time required to complete jobs and utilization of resources. Case studies and supplement readings are used to demonstrate real world issues and applications.

5330. Six Sigma Quality and Continuous Improvement. 3(3-1)

An examination of the various methods and approaches used to achieve, sustain and improve the quality of a product or service. Also includes an exploration into the principles and techniques used to evaluate both continuous and attribute data with an emphasis on the enhancement of skills in computer software that are used in quality assurance activities and/or data analysis. Prerequisite: ITEN 4352 or ITEN 4362 or permission of instructor. Laboratory fee, \$5.

5333. Hazardous Materials and Fire Prevention. 3(3-0)

Practices and techniques for effective handling and control of hazardous materials and fires. Standards, code compliance issues and the role of the industrial risk manager will also be examined.

5335. Industrial Safety and Risk Management. 3(3-0)

An examination of risk assessment and risk management principles, strategies and concepts as they relate to industrial settings. Also includes an exploration of the tools and techniques that can be used to: (a) assess levels of risk, (b) communicate risk in crisis and noncrisis situations and (c) integrate risk management into business planning and decision making. Industrial safety and health issues will also be addressed.

5340. Automation and Cellular Manufacturing. 3(3-0)
Survey of current trends and approaches to automation and cellular manufacturing. Emphasis will be both on managerial issues and integration of automated cells. Topics include automation, cellular manufacturing, group technology and just-in-time philosophies. Case studies and supplemental articles are used to demonstrate real world issues and applications.

5344. Lean Production. 3(3-0)
A study of the philosophy of lean production. Emphasis will be on designing strategies for implementation.

MECHANICAL ENGINEERING AND INDUSTRIAL ENGINEERING

Kai Jin, *Graduate Coordinator* (Industrial Engineering)
Engineering Complex 305. MSC 191. Extension 2135.
Selahattin Ozcelik, *Graduate Coordinator* (Mechanical Engineering)
Engineering Complex 333. MSC 191. Extension 2657.

Graduate Faculty: Yousri Elkassabgi, Larry D. Peel

Associate Members: Hayder Abdul-Razzak, Kai Jin, Hong Zhou

The graduate programs in Mechanical Engineering and Industrial Engineering are designed to instill fundamental concepts as well as practical knowledge of modern engineering and to prepare students for immediate engineering challenges as well as a lifetime of professional advancement. Research laboratories are available for work in robotics and automation, intelligent systems and controls, dextrous robotic hands, computer integrated engineering design and radiation effects on materials. Excellent computer facilities are available.

INDUSTRIAL ENGINEERING (IEEN)

5301. Advanced Problems in Industrial Engineering. V:1-3
Individual or group research on advanced problems conducted under the supervision of a faculty member. Maximum credit 6 semester hours.

5303. Advanced Topics in Industrial Engineering. V:1-3
One or more advanced topics. May be repeated when topic changes.

5305. Graduate Research Project. 3
A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

- 5306. Thesis.** 3
This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.
- 5313. Inventory Systems.** 3(3-0)
Deterministic/stochastic systems with static/dynamic models. Use of forecasting techniques. Practice of inventory management, manual and computerized procedures and MRP. Case studies in inventory systems management. Prerequisite: 3 hours undergraduate Production and Inventory Control or equivalent.
- 5314. Activity Scheduling.** 3(3-0)
Deterministic/stochastic sequencing problems with static/dynamic models. Problems involving single and multiple facilities (flow shop, job shop). Problems involving different measure of effectiveness, solution techniques (optimizing, heuristic). Industrial scheduling problems. Prerequisite: IEEN 5313.
- 5315. Nonlinear Programming.** 3(3-0)
Quantitative procedures for optimization techniques; steepest ascent/descent; gradient methods. Nonlinear problems such as quadratic programming, geometric programming, convex programming, separable programming, etc. Prerequisite: 6 hours of undergraduate operations research or equivalent and graduate standing.
- 5321. Computer Application of Statistical Methods in Engineering.** 3(3-0)
Extreme value distributions, multivariate normal distribution, simple and multiple regression analyses, analysis of variance, time series analysis, a survey of nonparametric statistics, chi square, t and F distributions. Prerequisite: undergraduate course in Applied Methods in Engineering Statistics or the equivalent.
- 5322. Computer Simulation of Industrial Systems.** 3(3-0)
Introduction to simulation, a survey and application of computer languages suitable for Monte Carlo simulation of random processes, model construction, advantages and shortcomings of simulation techniques, programming with simulation languages.
- 5323. Occupational Biomechanics.** 3(3-0)
Study of the structure and function of musculo-skeletal system of the human body, kinetic and kinematic models, link segment diagrams and 3-D static modeling. Applying bio-instrumentation to determine the human performance, work capacity and muscle strength evaluation. Biomechanical considerations in machine control and work place design.
- 5324. Ergonomics.** 3(3-0)
Application of ergonomic principles to the work environment. Design of the system to fit and interact with the human operator. Collection and utilization of anthropometric data in the design of workstations, tools, safety equipment and VDT workstations. Study of the interaction between human operator and the environment including the effect of noise, improper lighting, vibration, heat and cold on physical and mental performance.

- 5325. System Safety.** 3(3-0)
Application of engineering design and management of industrial prevention models along with ethical responsibilities to eliminate, prevent or control hazards throughout the life cycle of a project, program, procedure or activity.
- 5326. Economic Decision Theory.** 3(3-0)
Sources of information, prediction and judgment, subjective probability bidding policy. Statistical decision theory including utility functions, risk and uncertainty, min-max and Bayes strategy. Prerequisite: IEEN 5329 or equivalent.
- 5328. Reliability Theory.** 3(3-0)
Reliability analysis with emphasis on the exponential, Weibull, gamma, log normal and extreme value distributions; reliability of systems, redundancy; maintainability and availability. Prerequisite: IEEN 5313.
- 5329. Advanced Engineering Economic Analysis.** 3(3-0)
Continuation of Engineering Economic Analysis including funds flow, utility, price changes, investment, growth, replacement, taxes, capital budgeting and managerial economics. Prerequisite: 3 hours undergraduate course in Engineering Economic Analysis or equivalent.
- 5330. Computer Integrated Engineering Design.** 3(3-0)
Overview to the fundamental principles and concepts underlying CAD/CAD/CAE systems. Emphasis on three dimensional parametric and feature-based CAD/CAM systems. Introduction to the concurrent design approach - design for manufacturing, design for assembly, design for reliability, design for maintainability are introduced. Applications of artificial intelligence in CAD/CAM system. Enhancement of student's application and development skills of CAD/CAM software.
- 5331. Computer Integrated Manufacturing Systems.** 3(3-0)
Advanced systems concept of Computer Integrated Manufacturing Advanced system, definition of manufacturing and its various levels, planning and control of product movement through the production systems, successful use of Automation, Robotics, Just-In-Time Manufacturing and Knowledge Based Systems. Prerequisite: MEEN 5303.
- 5332. Manufacturing System Design.** 3(3-0)
Systematic description of the underlying behavior of manufacturing systems. Topics include basic factory dynamics, corrupting influence of variability, push and pull production systems, human element in manufacturing systems design and supply chain management.

5334. Lean Manufacturing. 3(3-0)

Identifying key Lean concepts for manufacturing and defining these concepts for products/process design. Understanding Lean terminology, value stream mapping for manufacturing systems, design of Lean equipment, product cell design, operator job design and five steps to kaizen. Lean manufacturing approach to help reduce manufacturing costs, reduce or eliminate waste and increase profit margins.

5335. Principles of Optimization. 3(3-0)

Nonlinear Optimization: convexity, Kuhn-Tucker conditions, theory of duality. Linear and combinatorial optimization. Dynamic optimization. Prerequisite: 6 hours of undergraduate operations research or equivalent.

5336. Linear Programming and Extensions. 3(3-0)

Theory of linear programming including the simplex method, duality, sensitivity analysis, decomposition principles, the transportation problem and integer programming. Prerequisite: IEEN 5335 or equivalent.

MECHANICAL ENGINEERING (MEEN)

5301. Advanced Problems in Mechanical Engineering. V:1-4

Individual or group research on advanced problems conducted under the supervision of a faculty member. Maximum credit 8 semester hours.

5303. Advanced Topics in Mechanical Engineering. V:1-3

One or more advanced topics. May be repeated when topic changes.

5305. Graduate Research Project. 3

A graduate research project must be completed and submitted to the Graduate Office for a grade to be assigned, otherwise IP notations are recorded. This course is specifically designed for Plan II and Plan III students. Prerequisite: departmental approval.

5306. Thesis. 3

This course is for Plan I students. The course requires 6 hours of grades, the first 3 hours consisting of completion of a thesis proposal and the last 3 hours consisting of completion of the thesis. Completion of the thesis proposal is a prerequisite for enrollment in the last 3 hours of thesis.

5313. Numerical Methods in Mechanical Engineering. 3(3-0)

Numerical methods for advanced analysis and design applications in Mechanical Engineering. Prerequisite: MATH 5372. (Credit may not be obtained in both MEEN 5313 and CEEN 5313.)

5314. Finite Element Methods in Engineering. 3(3-0)

Principles and applications of the Finite Element Method: energy based variational principle methods, the principles of virtual work, weighted residual methods. Emphasis on structural and nonstructural elements and applications. Prerequisite: CSEN 2304 or equivalent.

- 5318. Advanced Dynamics.** 3(3-0)
Equations of motion in three dimensions. Derivation and application of Lagrange's equations. Vibrations of mechanical systems. Orbital mechanics. Prerequisite: MEEN 3355.
- 5320. Theory of Elasticity.** 3(3-0)
Discussion of the concept of stress, strain, deformations, strain compatibility and constitutive relations; formulation and solution of extension, bending, torsion and two-dimensional elasticity problems. (Credit may not be obtained in both MEEN 5320 and CEEN 5310.)
- 5321. Advanced Fluid Mechanics.** 3(3-0)
Equations of fluid mechanics: equations of continuity, motion, Navier-Stokes, energy and Bernoulli. Incompressible, laminar, turbulent and compressible flows.
- 5322. Turbulent Flow.** 3(3-0)
Stationary random functions. Correlation tensors. Wave number Space. Mechanics of turbulence. Energy spectrum. Dissipation and energy cascade. Turbulence measurements. Isotropic turbulence. Turbulent transport processes. Mixing and free turbulence. Wall-constrained turbulence.
- 5325. Computer Integrated Manufacturing Systems.** 3(3-0)
Advanced systems concept of Computer Integrated Manufacturing System, definition of manufacturing and its various levels, planning and control of product movement through the production system, successful use of Automation, Robotics, Just-In-Time Manufacturing and Knowledge Based Systems. Prerequisite: MEEN 5303.
- 5326. Control Systems Engineering.** 3(3-0)
Analysis and design of controlled, dynamic, linear mechanical, electric, fluid and/or thermal systems; introduction to concepts of stability, controllability, observability and to discrete time, sampled data control systems, optimal control systems and nonlinear control theory. Prerequisite: MEEN 5328.
- 5328. Dynamic Systems Engineering.** 3(3-0)
Analysis of dynamic-mechanical, electric, fluid and thermal system elements; modeling, analysis and design of physical, dynamic systems composed of these elements.
- 5330. Continuum Mechanics.** 3(3-0)
Presentation of the fundamental laws of physics as applicable to a continuous medium in a unified viewpoint. Material is discussed in terms of Cartesian tensors. Topics covered include: vectors and indicial notation of tensors, tensor operations, stress, strain and deformation of continuous media in Eulerian and Lagrangian descriptions. Applications to solid mechanics, fluid mechanics and thermodynamics are explored.

5331. Advanced Materials Science. 3(3-0)

Formation of metallic materials, polymers and composite materials, both applications and properties including chemical resistance and mechanical properties such as elasticity, creep and fracture. Prerequisite: MEEN 3344.

5335. Advanced Robotics and Automation. 3(3-0)

Analysis of methods of design and operation of robots and robotic systems. Kinematics and dynamics of manipulators, trajectory planning and motion control, sensing and vision, discussion of command languages and planning of job assignments.

5337. Engineering Analysis in Applied Mechanics. 3(3-0)

Simultaneous Equations - Equilibrium, Eigenvalues and Eigenvectors; Extreme Values of Functions; Calculus of Variations; Extremum Principles of Thermodynamics; Stationarity and Extremum Principles of Solid Mechanics; Equations of Motion and the Stationarity Principles of Lagrange and Hamilton. Prerequisite: graduate standing and permission of instructor.

5345. Conduction and Convection Heat Transfer. 3(3-0)

Theory of steady-state and transient heat conduction and theory of convective transport combined with boundary layer theory. Prerequisite: MEEN 3348.

5347. Advanced Thermodynamics. 3(3-0)

The equations of state for various systems are given extensive treatment. Prerequisite: MEEN 3347.

To earn graduate credit for any undergraduate course authorized in the graduate catalog, the student must complete an extra assignment of graduate level quality that is not required of undergraduate students. The following advanced undergraduate courses have been approved by the Graduate Council for graduate credit: **MEEN 4345.** Engineering Vibrations. **MEEN 4348.** Gas Dynamics. **MEEN 4349.** Air Conditioning. **MEEN 4385.** Manufacturing of Composites.

DOCTORAL PROGRAMS

Admittance to a Specific Doctoral Program

Admittance to the College of Graduate Studies does not guarantee acceptance into a specific doctoral program. Standards for admittance to a specific doctoral program are set by the doctoral program faculty. Students must therefore check the admission requirements to the doctoral program of interest before they seek admission to the College of Graduate Studies. The admission requirements to a specific doctoral program may exceed the minimum requirements noted below. The graduate coordinator or program director must accept the student before the student is admitted to the program.

Minimum Requirements for Admission to Doctoral Degree Programs

1. Students desiring acceptance into a doctoral program must meet the following minimum admission requirements.
 - a. Have an acceptable undergraduate and graduate GPA (normally, a 3.0 or greater undergraduate GPA total or upper division GPA and a 3.25 or greater graduate GPA are expected).
 - b. Have an official Graduate Record Examination score or other program specific entrance exam taken within the last five years. Specific programs may have defined minimum score requirements.
2. An application for admission must be submitted to the Texas A&M University-Kingsville Office of Admissions.
3. Official transcripts must be submitted for all undergraduate and graduate work to the Texas A&M University-Kingsville Office of Admissions.
4. An official copy of the Graduate Record Examination or other program specific entrance exam must be submitted to the Office of Admissions directly from the testing service.
5. Individual departments may establish additional requirements for admission to a specific degree program. Applicants will be required to fulfill any additional requirements established by the major department.
6. Each department will review each application and make a recommendation regarding admission status to a degree program.
7. A student is granted either full admission or conditional admission status.
8. A doctoral student who has not enrolled for an academic year must reapply for admission under current admission standards.
9. A doctoral student who drops or withdraws from a program must reapply and meet the current standards for program application and admission.

Minimum Requirements for the Doctoral Degree

1. *Degree Plan.* Upon acceptance into a doctoral program, a student will meet with an adviser to develop a degree plan form and file it with the College of Graduate Studies during the initial semester of attendance. The student should contact the major department for adviser assignment. An official copy of the degree plan will be maintained by the program coordinator/director and the College of Graduate Studies.
2. *Course Requirements.* All courses applied toward a doctoral degree must be approved by the appropriate program administrator and Dean of the College of Graduate Studies. No more than fifteen graduate credit hours beyond the master's degree taken prior to admission to a doctoral program can be applied toward a doctoral degree.

Other Minimal Requirements

- I. 1. **Electives** and other course requirements are determined by each program.
2. **Transfer of Credit.** Credit for work taken from other accredited graduate schools in the United States and abroad is granted in accordance with an evaluation by the specific program director/coordinator and College of Graduate Studies. Time limitations on transfer courses are the same as for Texas A&M University-Kingsville. Transfer credit will be granted for only those courses in which the student received a grade of "B" or better. Only grades earned at Texas A&M University-Kingsville will be utilized in calculating a student's grade point average.
3. **Independent Studies.** Registration in a independent studies, research or similar courses shall imply an expected level of effort on the part of the student comparable to that associated with an organized class with the same credit value. No more than twelve graduate semester hours of independent studies courses may be applied to a doctoral degree. Independent studies course credit cannot be used toward fulfilling the residency requirement.
4. **Grades.** A grade point average of 3.00 or better on all graduate work completed at this university, as well as an overall grade point average of 3.00 or better on all graduate courses completed, is required for graduation. If a course is retaken, the last grade will be counted toward graduation and computation of the overall grade point average. A course in which an "F" is received is considered a course completed and the course must be retaken at the same institution.
5. **Academic Probation and Suspension from Degree Programs.** A student who fails to achieve and maintain an overall 3.00 grade point average during any semester of enrollment will be placed on academic probation. A student who fails to achieve a 3.00 overall grade point average by the end of the next semester of enrollment will be placed on academic suspension for a minimum of two semesters (two summer terms count as one semester). After the academic suspension is served, the student may be allowed to re-enroll only upon the recommendation of the major department and with the approval of the Dean of the College of Graduate Studies. Failure to achieve an overall 3.00 grade point

average during any subsequent semester of enrollment will result in dismissal, and the student will not be allowed to pursue further study toward the doctoral degree at this institution. Courses taken from other institutions will not be transferable if taken during a period of suspension from Texas A&M University-Kingsville. Students on academic suspension from another institution will not be admitted to Texas A&M University-Kingsville until their specific period of suspension expires. Students who fail to meet the professional expectations of the field for which they are preparing may be suspended from further study in that program by the department administering that program.

6. **Residency.** After admission to a doctoral degree program, each student is required to engage in activities that fulfill departmental residency requirements. The departmental residency plan specifies requirements in the following areas:
 - a. involvement in events that broaden intellectual growth,
 - b. use of academic support resources,
 - c. faculty-student interactions that promote scholarship, mentoring and opportunities for evaluation,
 - d. involvement with cognate disciplines and research scholars in those disciplines and
 - e. engagement in meaningful peer interactions.Please check with the major department for specific requirements. Successful completion of residency is determined by approval of the department.
7. **Doctoral Tuition and Fees.** All post-master's, doctoral course work (including the dissertation), must be satisfactorily completed by the doctoral student in a maximum of 99 semester credit hours. If the Graduate Dean approves in writing that a student may proceed beyond the 99 credit hour limit, the student will be assessed out-of-state tuition.
8. **Research Tools.** Candidates for the doctoral degree must possess proficiency in the use of the research skills necessary to successfully complete the doctoral dissertation. Students should demonstrate these proficiencies early in their program; however, students must demonstrate such proficiency prior to taking the qualifying examinations.

II. **Comprehensive Examinations.** Doctoral students take written and oral comprehensive examinations upon the completion of approximately two full years of study. The examinations must be taken and passed before the degree is conferred. The comprehensive examinations are designed to test the student's knowledge in the major and supporting fields or cognate area and are administered under the direction of an advisory committee.

1. **Admission to Candidacy for Doctoral Degree.** After the qualifying examinations have been satisfactorily completed and all requirements have been verified by the College of Graduate Studies, the student will be admitted to candidacy.

2. **Time Limitation for Degree.** All degree requirements beyond the master's must be completed within ten calendar years from the date of admission to the doctoral program for Doctor of Philosophy (Ph.D.) Programs and seven years for Doctor of Education (Ed.D.) Programs. However, no course work beyond the master's degree which is over ten years old for Ph.D. and seven years for Ed.D. programs at the time the doctoral degree is to be conferred can be used toward the doctoral degree. Graduate credits older than seven years are not applicable toward a doctoral degree without written approval from the Graduate Dean.
 3. **Advisory Committee.** The student should check with the head of the major department concerning the membership of the dissertation committee. The committee will consist of a minimum of three faculty members from the student's major area of study and a Graduate Council Representative appointed by the Dean of the College of Graduate Studies.
 4. **Approval Forms and Documents Prior to Proposal.** The student should secure from the College of Graduate Studies, the program director or the Texas A&M University-Kingsville web site the following forms:
 - a. Institutional Review Board Application or other program specific research approval document
 - b. Request for Graduate Council Representative
 - c. Thesis and Dissertation Manual
 5. **Proposal.** All proposals should be filed with the Office of Graduate Studies upon successful defense by the student and approval of the document by the dissertation committee.
 6. **Dissertation Defense.** Student must successfully defend a dissertation. A quorum of the members of the dissertation committee is required for the defense.
 7. **Dissertation.** A candidate must complete a dissertation which is acceptable to the student's advisory committee and the Dean of the College of Graduate Studies. To be acceptable, the dissertation must give evidence that the candidate has pursued a program of research, the result of which reveals superior academic competence and a significant contribution to knowledge.
- III. **Submission of Dissertation.** Registration in the dissertation course is required the semester that the dissertation is submitted.
1. **The number of copies** of the dissertation specified by the particular program in its final form must be submitted to the College of Graduate Studies on 100% cotton 20 pound bond paper by the deadline indicated in the schedule of classes or the Graduate Catalog for that particular semester (this deadline is approximately three weeks prior to commencement).

2. **Accompanying these copies** will be the following:
 - a. Dissertation Defense Report,
 - b. Receipt showing payment for extra copies of the binding fee for the dissertation (payment is to be made to the Business Office, cashier's window, College Hall).
 - c. Survey of Earned Doctorates; Microfilm Agreement Form (copyright); extra copies of the abstract and title page.
 - d. Bell and Howell UMI agreement for publication form.

3. **Filing for Graduation.** The candidate must file for graduation in the Office of the College of Graduate Studies, pay all fees and submit the diploma card to the Provost's Office by the deadline indicated in the schedule of classes or the Graduate Catalog for that particular semester. A student must be in good standing with the College of Graduate Studies in order to complete graduation requirements.
 - a. Students applying for graduation must have prior approval of the doctoral adviser and properly signed final degree plan for submission to College of Graduate Studies.

4. **Commencement.** The degree is conferred at the commencement following the fulfillment of all requirements. The candidate is expected to be present.

General Requirements for Graduation with a Doctoral Degree

The Graduate Council Representative (GCR) is a nonvoting member of the doctoral student's Advisory Committee who is appointed by the Graduate Dean or the Executive Committee of the Graduate Council and whose role is primarily but not exclusively procedural. The GCR has the same responsibilities as other members of the committee except for voting on the technical merits of the graduate work. The GCR is charged with (a) assuring that the doctoral student is treated fairly and impartially by his advisory committee; and (b) assuring that the quality of the dissertation is reasonable and consistent with the status of Texas A&M University-Kingsville as an internationally recognized research institution.

In order to satisfy these charges, the student is to provide the GCR with a copy of the degree plan, the dissertation proposal and the dissertation in a timely manner. The following is a brief summary of functions and responsibilities of the GCR:

General Functions

The Graduate Council recognizes that a GCR will not possess technical expertise in all elements considered in research outside his or her field or specialization. Therefore, an individual serving as a GCR must exercise careful judgment in fulfilling the following general functions:

- * Reviewing the student's approved degree plan in order to gain familiarity with the nature of the student's program.
- * Reviewing the student's proposal for the dissertation.
- * Ensuring that the oral portion of the preliminary exam and the final defense are conducted in a fair and unbiased but also a thoroughgoing manner.

- * Reviewing the student's dissertation in order to attest that it meets generally accepted standards of scholarship.
- * Participating in additional Advisory Committee meetings which may be scheduled by the Chair of the Advisory Committee.
- * Notifying the Office of Graduate Studies in writing of any irregularity in procedure at the time of the scheduled examination (e.g. the absence of a committee member) in order to obtain instructions.

Responsibilities of the GCR to the Doctoral Student

- * To participate in the student's preliminary and final oral examination.
- * To review documents such as the proposal and the dissertation in a timely manner.
- * If unable to be present at the examinations and called meetings of the Advisory Committee, the GCR shall notify the Chair of the Executive Committee of the Graduate Council. The Executive Committee of the Graduate Council shall appoint a substitute.

Responsibilities of the Doctoral Student to the GCR

- * To keep the GCR informed of progress toward the degree, the student will provide the GCR with copies of the proposal and the dissertation in a timely manner.
- * To notify the GCR of dates and times for preliminary and final oral examinations.
- * To provide a copy of the dissertation to the GCR before the final oral examination.

Pathways to the Doctorate Program

The goal of the Pathways to the Doctorate is to attract high achieving students within The Texas A&M University System to pursue careers in higher education. Additional information can be found at www.tamus.edu/pathways.

The Texas A&M University System Graduate Faculty

The Texas A&M University System has established a System Graduate Faculty that enables and facilitates collaborative research and teaching among faculty members of the nine universities and the Health Science center within the System. By acquiring status through the System Graduate Faculty, faculty members are able to co-chair and serve on graduate student committees within The Texas A&M University System. Additional information can be found at www.tamus.edu/pathways.

DOCTORAL PROGRAMS IN AGRICULTURE AND NATURAL RESOURCES

COOPERATIVE DOCTOR OF PHILOSOPHY IN HORTICULTURE

Mani Skaria, *Graduate Coordinator*

Eva de Leon, *Administrative Assistant*

Kleberg Building for Agriculture 116. MSC 228. Extension 3719

miskaria@ag.tamu.edu

Doctoral Faculty: John V. da Graca (*Citrus Center*), Duane T. Gardiner (*Agronomy and Resource Sciences*), Eliezer S. Louzada (*Citrus Center*), Shad D. Nelson (*Agronomy and Resource Sciences*), Mani Skaria (*Citrus Center*).

The Department of Agronomy and Resource Sciences offers a cooperative Ph.D. program in Horticulture, through partnership with the Department of Horticultural Sciences at Texas A&M University in College Station. The degree is awarded by Texas A&M University; however, much of the coursework, research and graduate advising can be completed at Texas A&M-Kingsville and/or the Texas A&M-Kingsville Citrus Center. Graduate studies leading to this degree can include any aspect of horticulture. Students in the program are required to spend at least two semesters in residence at Texas A&M University in College Station, and to work under the direction of an advisory committee comprised of members of both university faculties with one committee co-chair from each of the two universities.

Entrance Requirements

Students seeking admission to the cooperative doctoral program should apply through Texas A&M University and specify that they wish to participate in the cooperative program. A committee of five faculty members representing both universities will evaluate each application. Admission requirements are set by Texas A&M University. Current requirements can be found in the Texas A&M University Graduate Catalog, or obtained from the Texas A&M University Department of Horticultural Sciences.

Degree Plan and Course Requirements

Students develop a degree plan in consultation with their advisers. The plan must be filed before registering for the fifth semester. Students must complete at least 64 credit hours of course work beyond the master's degree (or, in rare cases, 96 credit hours beyond the bachelor's degree). Of the 64 credit hours, approximately half should come from organized courses and half from dissertation research and advanced problems. Students must complete courses at both universities. Courses at Texas A&M-Kingsville can be chosen from the Plant and Soil Science courses listed below or from selected other courses. All courses used towards the degree must be approved by the students' advisers.

Other Policies

All current rules and policies at Texas A&M University, including those regarding residency, course load, course longevity, admission to candidacy and grade point requirements, govern the administration of this degree. Students should consult the Texas A&M University Graduate Catalog and Handbook (<http://vpr.tamu.edu/gradh.html>).

PLANT AND SOIL SCIENCE (PLSS)

6185. Seminar. 1(1-0)

Student reports and discussion of recent literature and current investigations. May be repeated up to three times.

6326. Soil Chemistry. 3(3-0)

Advanced study of the chemistry of soils, including properties, processes and applications.

6328. Soil Physics. 3(3-0)

Advanced study of the physical properties of soils with environmental and agricultural applications.

6344. Crop Protection. 3(3-0)

Advanced study of principles and practical aspects of control in the field vertebrate and insect pests, weeds and diseases caused by pathogens such as viruses, bacteria, fungi and nematodes of all major cultivated crops. Economic and environmental considerations of crop protection including developments in biotechnological and integrated pest managements will be covered.

6345. Phytochemicals in Fruits and Vegetables to Improve Human Health. 3(3-0)

Update the research information on the phytochemicals and describe their role in human diet. Understand the toxic effects and sources of phytochemicals. Prerequisite: approval of instructor.

6346. Citrus and Subtropical Fruit Crops. 3(3-0)

Encompasses various types of citrus, including oranges, lemons, limes, grapefruit and mandarins as well as avocados and olives. Covers identification, culture, processing, marketing, post-harvest aspects, phytochemicals and economic future. Other crops will be covered in brief. Prerequisite: approval of instructor.

6377. Genetics of Crop Improvement. 3(3-0)

Critical study of scientific literature and current research concerning principles of plant genetics and their applications to conventional breeding and genetic engineering methods for the improvement of cultivated crops.

6379. Postharvest Physiology of Horticultural Crops. 3(3-0)

Study of biochemical and physiological processes affecting maturity, quality and conditions of horticultural crops (fruits, vegetables and flowers). Selection and use of handling, storage and transportation facilities will be discussed.

- 6390. Advanced Studies in Horticulture.** V:1-3
Material offered will be determined by the needs of the students. Laboratory and lecture will vary according to the subject. May be repeated under a different topic.
- 6395. Advanced Problems in Horticulture.** V:1-3
Independent work. Variable credit depending upon the problem. Requires approval of faculty to supervise the problem.
- 6397. Dissertation Research.** V:3-9
Research for dissertation.

DOCTOR OF PHILOSOPHY IN WILDLIFE SCIENCE

Scott E. Henke, *Graduate Coordinator*

Eva de Leon, *Administrative Assistant*

Kleberg Building for Agriculture 133. MSC 228. Extension 3689

scott.henke@tamuk.edu

Graduate Faculty: Bart M. Ballard, Leonard A. Brennan, Frederick C. Bryant, Charles A. DeYoung, Alan M. Fedynich, Timothy E. Fulbright, Edward O. Garbon, Scott E. Henke, Fidel Hernandez, David G. Hewitt, William P. Kuvlesky, Jr., Steven D. Lukefahr, J. Alfonso Ortega-Santos, G. Allen Rasmussen, Michael E. Tewes

Note: For external members on the doctoral faculty, please check with the Office of Graduate Studies.

The Department of Animal and Wildlife Sciences offers the Doctor of Philosophy in Wildlife Science. Ph.D. students will prepare for research, teaching and administrative careers in natural resources. As humans increasingly impact the environment, scientists educated in natural resource areas like wildlife science will become increasingly important. Ph.D. students educated under this program will be amply prepared to confront these challenges. Detailed guidelines for the program are available from the administrative assistant or chair of the Department of Animal and Wildlife Sciences.

Entrance Requirements

Students must hold the Master of Science degree and an acceptable combination of GRE scores, TOEFL score or intensive English language training course (international students) and grade point average. Contact the Chair, Department of Animal and Wildlife Sciences, for details. Students must also have the agreement of a faculty member at Texas A&M University-Kingsville to direct the dissertation research.

Graduate Committee

Students develop a committee of at least four members in consultation with their major adviser. Make-up of the committee generally is based on faculty expertise in subjects relevant to the dissertation research. In addition, a Graduate Council representative to serve on the doctoral committee will be appointed.

Degree Plan and Course Requirements

Students develop a degree plan in consultation with their adviser. The program requires 64 hours past the master's degree. Students should expect to take at least 24 hours of formal course work.

Admission to Candidacy

Ph.D. students may be admitted to candidacy upon successful completion of preliminary examinations. Preliminary examinations typically are administered when the student has completed all but six hours of formal course work on the degree plan. Candidates for the Ph.D. degree must obtain clearance and complete a Degree Candidacy form at the Graduate Office. Clearance to graduate follows recommendation by the official graduate adviser to the Graduate Dean.

Course Longevity

A student must complete all requirements for the doctoral degree within four years of completion of the preliminary examinations, and the dissertation must be completed within ten consecutive years of initial registration. Graduate credits older than ten years are not applicable toward a doctoral degree without written approval of the Graduate Dean.

All post-master, doctoral course work (including the dissertation), must be satisfactorily completed by the doctoral student in a maximum of 99 semester credit hours. If the Graduate Dean approves in writing that a student may proceed beyond the 99 credit hour limit, the student will be assessed out-of-state tuition.

Dissertation

A dissertation must be written and defended before the graduate committee. Grades of S (satisfactory) or U (unsatisfactory) are awarded for dissertation research course work.

Normal Course Load

A normal course load at Texas A&M University-Kingsville is nine hours during long semesters and three hours during summer sessions. The latter also constitutes a full-time status course load. Ph.D. students must register for a normal course load when they are in residence at Texas A&M University-Kingsville.

Registration

Students are required to be continuously registered at Texas A&M University-Kingsville.

ANIMAL SCIENCE (ANSC)

6335. Quantitative Genetics.

3(3-0)

Quantitative methodologies for altering the genetic properties and/or achieving genetic progress in domesticated and natural animal and plant populations. Application of genetic software packages.

WILDLIFE SCIENCE (WSCI)

6199. Seminar.

1(1-0)

Student reports and discussions of recent literature and current investigations. The nature of the subject matter covered will be dependent upon the student's area of specialization and how advanced he/she is in his/her graduate studies. Accepted aids for presenting such group reports will be noted and used by students in their presentations. May be repeated for a maximum of three credit hours toward minimum hours for an advanced degree. Prerequisite: approval of the student's major instructor or graduate committee.

6302. Biopolitics and Public Relations.

3(3-0)

Legislation, administration, public relations and biopolitics as they relate to range and wildlife management.

6371. Wildlife Nutrition.

3(3-0)

Role of nutrition in wildlife management, wildlife nutrient requirements, digestion and nutrient metabolism, evaluation of nutritional status and nutrient regulation of wildlife populations.

6372. Wildlife Conservation Biology.

3(3-0)

A multidisciplinary science that deals with the crisis confronting biological diversity and species extinction. Topics include biology and management of small populations, landscape ecology and fragmentation theory, theory of species diversity and the application of wildlife management techniques/strategies for species conservation.

6374. Wildlife Research Methods.

3(3-0)

Research methods for analyzing the response of wildlife populations to environmental factors and management treatments. Content includes research philosophy and creativity; experimental design in field-scale projects; advanced methods of population analysis (density, survival, mortality); inferences from radiotelemetry data; and technical article preparation.

6381. Wildlife Population Ecology.

3(3-0)

Study of factors affecting wildlife population dynamics, quantitative examinations of population properties, controls and census methods.

6382. Waterfowl.

3(2-2)

Studies of theoretical ecology and applied management of waterfowl with emphasis on North America. Contents include ecogeography, migration, wetland habitats, reproduction, feeding ecology and energetics and population and harvest management.

6386. Rangeland Synecology.

3(3-0)

Study of range ecosystems; causes and patterns of community development, interaction of plants and animals, succession and other community changes. Field activity may be required.

- 6387. Wildlife Habitat Management.** 3(3-0)
Presentation of habitat requirements and management of wildlife species. Discussion of habitat analysis and evaluation techniques.
- 6390. Advanced Studies in Range and Natural Resources.** V:1-3
Material offered will be determined by the needs of the students. Laboratory and lecture will vary according to the subject needs. May be repeated under a different topic.
- 6391. Ecosystem Function and Management.** 3(3-0)
Discussion course focuses on foundational papers on aspects of ecosystem function, relationships between biodiversity and ecosystem services and philosophy and applications of ecosystem management.
- 6394. Grazing Management.** 3(3-0)
Physiological processes, morphological development, nutritional qualities and palatability of range plants as a basis for grazing management strategies for domestic and wild animals, and the impact of the grazing systems on vegetation, livestock, wildlife and watershed.
- 6395. Advanced Problems in Range and Wildlife Management.** V:1-3
Independent work which may include a laboratory or field problem. Variable credit dependent upon the problem; may be repeated for a total of 6 semester hours. Prerequisite: approval of a staff member who will supervise the problem.
- 6396. Avian Community Ecology.** 3(3-0)
Evolutionary concepts that shape avian communities, including mating systems, reproductive strategies, foraging adaptations, brood parasitism, responses to predation and competition.
- 6397. Wildlife Diseases.** 3(3-0)
Infectious and noninfectious diseases of wildlife, epizootiology and theoretical disease ecology as it relates to individuals and populations, wildlife management strategies and human-wildlife interactions.
- 6999. Dissertation Research.** V:3-9

DOCTORAL PROGRAM IN ARTS AND SCIENCES

COOPERATIVE DOCTOR OF PHILOSOPHY IN HISPANIC STUDIES

Michelle Johnson Vela, *Graduate Coordinator*

Connie Salgado, *Administrative Assistant*

Fore Hall 205C. MSC 162. Extension 2516

Graduate Faculty: Michelle Johnson Vela

The Department of Language and Literature offers a cooperative Ph.D. program in Hispanic Studies, through partnership with Texas A&M University, Texas A&M University-Corpus Christi and Texas A&M International University. Graduates of the Hispanic Studies Ph.D. will have the single discipline competence needed to qualify for an academic appointment in Spanish, Hispanic Studies, or a related discipline, as well as the broadly based expertise in Hispanic Studies essential to hold leadership positions in government agencies, public service, educational institutions and foundations. The degree is awarded by Texas A&M University; however, much of the coursework, research and graduate advising can be completed at Texas A&M-Kingsville. All off-campus courses will be delivered through distance learning. Residence requirements for the doctoral program can be satisfied by completing two consecutive semesters (at a minimum of nine resident credit hours each) either at the College Station campus or through distance education courses originating from the College Station campus and available at all System campuses. Students admitted into the program will work under the direction of a Ph.D. committee composed of a chair (from College Station), a dissertation adviser (who may be from Kingsville) and three other committee members.

Entrance Requirements

Admission to the doctoral program will be predicated on several factors: (1) a completed masters degree in Spanish or Hispanic Studies or in a related area, with a minimum grade point average of 3.2; (2) demonstrated oral and written proficiency in Spanish; (3) the Graduate Record Examination (GRE); (4) at least three letters of recommendation; (5) the student's goals and career interests as stated on the application form; and (6) the availability of faculty members who are qualified to direct the student's program of study. Admission will be consistent with House Bill 1641. Alternatively, students holding an appropriate baccalaureate degree (including a minimum of twelve hours in Spanish at the advanced undergraduate level) could be admitted to the program under the same criteria outlined above. These students will need to complete an additional 30 hours at the graduate level.

Students should apply directly to Texas A&M University. An admissions committee will consist of the Director of Hispanic Studies at College Station, three faculty from College Station and a faculty member from each of the other participating campuses.

Degree Plan and Course Requirements

The interdisciplinary Ph.D. cooperative program in Hispanic Studies is grounded in a solid knowledge of the language, culture and literature of Spanish-speaking peoples and is designed to meet the needs of selected students who enter the program with well-defined goals for their course of study. The program permits a student to integrate the subject matter of different disciplines into a course of study relevant to her or his specific interests in the national and international Hispanic world. The Ph.D. in Hispanic Studies consists of one curriculum and one set of overarching educational objectives. Within the general framework of the curriculum, however, there are four concentrations, each of which overlap. Every Ph.D. student must take a core of four courses that will introduce him or her to the various methods and resources for the study of Hispanic literature, language, culture and socio-economic issues; the research and methodological skills necessary to conduct and present research; the linguistic variations of the Southwest; and U.S. Latino/a literature(s). Once a student has chosen a particular concentration, he or she will be required to take 15 hours of courses in that concentration, and 18 hours of prescribed and free electives.

Additional Requirements

Each Ph.D. student will be required to write a doctoral dissertation. Nineteen (19) semester credit hours of dissertation credit (HISP 691: "Research") are required.

Each Ph.D. student will be required to demonstrate proficiency in a language other than English and Spanish by taking a translation exam (dictionary allowed) or by passing a 300-level class in that language with a grade of B or better. Students may satisfy this requirement at any point before completing their 45 semester credit hours of regular coursework.

The following courses are offered by Texas A&M University-Kingsville.

SPANISH (SPAN)

6300. Topics in Spanish. 3(3-0)

Research methods and theory in the field of Spanish linguistics. Topics: Dialectology, phonetics, semantics, pragmatics, Spanish of the Southwest, methods of study in Spanish language. May be repeated when topic changes.

6301. Research Methods. 3(3-0)

Orientation to critical proficiency and tools in literary theory, cultural studies approaches and linguistic methods necessary for conducting research in the resolution of problems relevant to the study of the topic selected.

6310. Hispanic Feminist Theory and Writing. 3(3-0)

Analysis of Hispanic women's discourse as power struggle for the elaboration of feminist politics of reason, passion and action, and political feminist consciousness. Critical analysis of women's writings as production and reproduction of cultural formations of historically situated and gender-specific discursive subjects.

- 6311. Hispanic Film Studies.** 3(3-0)
 Study of Latin American, U.S. Latino and Spanish film and multimedia as historical and cultural active re-discoveries and re-constructions of the Hispanic peoples and their worlds. Readings and discussion on the articulation between history, film, multimedia and the production-consumption of image cultures in the Hispanic world.
- 6341. Topics in Translation Studies.** 3(3-0)
 Applied linguistics issues related to Spanish-English/English-Spanish translation. May be repeated when topic changes.
- 6350. Hispanic Cultural Studies.** 3(3-0)
 Study of cultural constructs and practices in the Hispanic World. Interpretation of Hispanic signifying practices, institutions, subjectivities, ideologies, gender roles and the Other. Critical analysis of the interactions among high culture, mass media and popular culture. May be repeated when topic changes.
- 6360. Studies in Spanish-American Literature** 3(3-0)
 Topics include studies in Spanish-American Literature. May be repeated when topic changes.
- 6361. Spanish-American Vanguardism.** 3(3-0)
 Study of center-periphery theoretical encounters of the creacionista, ultraista, constructivist and surrealist writing techniques used by Spanish-American writers from the 1920s to the 1940s. Assessment of the ambivalence between acceptance and rejection of the avant-garde by Latin American poets; and the singularity of the major works identified with the avant-garde.
- 6362. Spanish-American Postmodernism.** 3(3-0)
 A study of the intersections of high culture and popular culture, global designs and local histories, border thinking and globalization in the literary genres of the Spanish-American postmodernist period. Insight into various aspects of power-subordination relationship of Hispanic and world cultures. Critical analysis of their aesthetic, social and political functions and contexts.
- 6398. Dissertation in Progress.** 3
- 6399. Dissertation.** 3

DOCTORAL PROGRAMS IN EDUCATION

DOCTOR OF EDUCATION IN BILINGUAL EDUCATION

Jaya Goswami, *Graduate Coordinator*
Poteet Hall 234. MSC 152. Extension 4413.

Graduate Faculty: Jaya Goswami, Elias Martinez, Roberto Torres

The Doctor of Education degree in bilingual education is a professional degree designed for experienced teachers interested in applying special knowledge and skills to the bilingual curriculum. The program consists of a series of courses and experiences in education and related areas: history, sociology and Spanish. All instruction related to educational practices, methodologies, organization of instruction and curriculum development is offered in the departments of Bilingual Education and Education.

The focus of the program is mainly on the educational needs of the Mexican American child in the elementary school; field experiences, research projects and required course work in related areas may reflect this focus. The student has the option, however, of concentrating on a different linguistic/cultural group in individual research projects and in selecting a dissertation topic. In contemporary bilingual education, the theoretical models are applicable not only to Mexican Americans but to other linguistic minority groups in the United States and abroad.

Entrance Requirements

Requirements are a master's degree, an appropriate level of proficiency in English and another language or evidence of potential to achieve the minimum level of proficiency required by the program, approval of the doctoral committee and three letters of recommendation by graduate instructors.

Approval by the admissions committee will be based on the following factors: (a) GRE scores (either Aptitude or Advanced Test) at least sufficiently high to merit admission to the College of Graduate Studies; (b) an acceptable undergraduate and graduate GPA (normally, a 3.0 + undergraduate total or upper division GPA and a 3.25 + graduate GPA are expected); (c) positive recommendations from references; and (d) successful personal interview with applicant when feasible.

The admissions committee may require additional work by applicant prior to or concurrent with enrollment in the doctoral program if the committee establishes that a deficiency exists in the applicant's background and training. The program requires pre-doctoral training in (a) linguistics, (b) statistics and (c) Spanish writing skills for those who plan to develop curriculum materials in Spanish. Special courses will be available to those students who lack preparation in these areas.

Languages

Students must demonstrate appropriate levels of proficiency in understanding, speaking, reading and writing English and another language prior to either (a) admission to the doctoral program or (b) admission to candidacy. Students enrolling in courses taught in Spanish must be able to fulfill the language requirements of those courses prior to registration.

Degree Plan

After conferring with the student, the coordinator of the doctoral program will prepare a degree plan in the first semester or summer session of work. If approved by the graduate dean, such degree plan shall constitute the approved plan of studies for the student.

Admission to Candidacy

Admission to the doctoral program does not imply admission to candidacy. Students shall be admitted to candidacy prior to completion of their dissertation and once they have: (a) filed the required forms with the graduate dean, (b) successfully completed all course work, (c) passed their written and oral comprehensive examinations and (d) after the attainment of acceptable scores in an appropriate second language test.

Course Longevity

A student must complete all requirements for the doctoral degree, including the dissertation, within seven consecutive years of initial registration for that degree. Graduate credits older than seven years are not applicable toward a doctoral degree without written approval from the Graduate Dean.

All post-master, doctoral course work (including the dissertation), must be satisfactorily completed by the doctoral student in a maximum of 99 semester credit hours. If the Graduate Dean approves in writing that a student may proceed beyond the 99 credit hour limit, the student will be assessed out-of-state tuition.

Residency Requirements

Residency may be established through 12 consecutive months of either part-time or full-time enrollment in the doctoral program.

Dissertation

A dissertation must be prepared under the direction of the major professor and must be approved by the student's graduate committee and the graduate dean.

Normal Course Load

Twelve semester hours constitute a maximum course load during the fall and spring semesters. Students working full time may enroll for no more than 6 hours during any semester or summer term in which they work. A *full-time status* course load is 9 semester credit hours during the fall or spring semesters and 3 semester credit hours during each summer session.

For students at the dissertation stage, enrollment in EDBL 6398 and/or EDBL 6399, the dissertation courses, shall constitute a full load.

BILINGUAL EDUCATION (EDBL)

6301. Foundations of Bilingual Education I. 3(3-0)

Analysis of the bilingual education movement at the international, national and state level, with special emphasis on the role of linguistics, national/state legislation and litigation.

6302. Foundations in Bilingual Education II. 3(3-0)

Major theories and concepts relevant to the education of language minority students, including: cultural values and education; cognitive styles; sociology of language; language varieties.

6310. Literature of the Mexican American. 3(3-0)

Course emphasizes extensive bibliographic knowledge of the field. Concentration on reading and analysis of the novel, short story, poetic and dramatic genres. Taught in Spanish.

6311. Management Systems and Technology. 3(3-0)

Application of management systems to curriculum development is analyzed. The contributions of current technologies for enhancing student achievement are highlighted. Prerequisite: 12 graduate semester hours in Education.

6312. Clinical Supervision of Instruction. 3(3-0)

Course emphasizes cycle supervision and the improvement of individual teacher instructional behavior. Prerequisite: EDBL 6311.

6313. Evaluation of Instruction. 3(3-0)

Course emphasizes evaluation skills as applied to curriculum development and student-teacher terminal behavior. Taught in English. Prerequisite: EDBL 6311 and EDBL 6312.

6321. Linguistics and Education I. 3(3-0)

Major theories and related research on the acquisition and learning of English as a Second Language are presented and synthesized.

6322. Linguistics and Education II. 3(3-0)

Comparison of English and Spanish in areas of phonology, morphology and syntax; major studies involving Spanish and English language acquisition are examined.

6331. Teaching English as a Second Language. 3(3-0)

Analysis of current methodologies in the teaching of oral, reading and writing skills in English as a second language. Taught in English. Prerequisite: 12 graduate semester hours in education and three semester hours in linguistics.

- 6332. Teaching Spanish Language Skills.** 3(3-0)
 Analysis of current problems and approaches to the teaching of oral, reading and writing skills throughout several countries of the Hispanic world today. Taught in Spanish. Prerequisite: 12 graduate semester hours in education.
- 6333. Teaching English Reading.** 3(3-0)
 Analysis of current problems and approaches to the teaching of English reading for the bilingual child in Texas. Taught in English. Prerequisite: 12 graduate semester hours in education and 3 semester hours in linguistics.
- 6334. Teaching Subject Matter in Spanish.** 3(3-0)
 Analysis of vocabulary, methodology and skills needed to teach subject matter in Spanish. Prerequisite: 12 graduate semester hours in education.
- 6371. Research Design in Bilingual Education.** 3(3-0)
 Analysis of different approaches to research and the components involved in developing a sound research design. Prerequisite: 12 graduate semester hours in education.
- 6372. Descriptive Research in Bilingual Education.** 3(3-0)
 Principles of descriptive research and their application to the field of bilingual education.
- 6373. Techniques of Research, Publication and Grant Development.** 3(3-0)
 Focuses on survey research, the development of proposals for extramural funding and the dissemination of project findings. Preparation of materials for publication/dissemination will be emphasized.
- 6391. Advanced Topics in Bilingual Education I.** 3(3-0)
 Directed research in a topic related to one of the following areas: EDSL, Spanish language skills, content area, child's native culture. May be repeated for credit once if topic changes. Taught in English or Spanish. Prerequisite: 12 graduate semester hours in education.
- 6393. Advanced Topics in Bilingual Education II.** 3(3-0)
 Directed research in a topic related to one of the following areas: EDSL, Spanish language skills, content area, child's native culture. May be repeated for credit once if topic changes. Taught in English or Spanish. Prerequisite: 12 graduate semester hours in education.
- 6398. Dissertation in Progress.** 3
- 6399. Dissertation.** 3
- HISTORY (HIST)**
- 6311. History of the Mexican American.** 3(3-0)
 A study of the role of the Mexican American in history from the first Spanish settlers to the present. Taught in English. Prerequisite: 12 semester hours of history and/or political science.

SOCIOLOGY (SOCl)

6301. Sociology of the Mexican American.

3(3-0)

Perspectives of the culturally different child. Emphasis of sociocultural awareness and diagnostic and prescriptive strategies. Taught in English.

DOCTOR OF EDUCATION IN EDUCATIONAL LEADERSHIP

Michelle Brown, *Graduate Coordinator*

Poteet Hall 257. MSC 223. Extension 4224

Graduate Faculty: Karen Sue Bradley, Michelle Brown, Linda Chaloo, Rebecca Davis, Zonia Garcia-Obregon, Grace Hopkins, Cheryl Kelsey, La Vonne Williams

The Ed.D. in Educational Leadership is a professional degree designed to provide leaders throughout the state at all educational levels. Courses emphasizing leadership in the areas of philosophical/sociological development, institutional organization, curriculum/instruction, school improvement and research are required in the program. Additional emphasis will be given to advanced courses in a career choice of the candidate.

The program is a joint doctorate in Educational Leadership between A&M-Kingsville and A&M-Corpus Christi with students attending classes on both campuses. Professors from both universities serve as instructors and advisers for participants in the program.

Entrance Requirements

The candidate must submit the following criteria for entrance to the program: a master's degree; an undergraduate GPA of 3.0 and a graduate GPA of 3.5; a GRE score of 1000 (combined verbal and quantitative) preferred; writing proficiency; successful personal interview evaluation; and a personal written statement of commitment to the program.

Admission to Candidacy

Admission to the doctoral program does not imply admission to candidacy. Students will be admitted to candidacy upon completion of required forms in the program, after successful completion of course work required in the program and after successful completion of written and oral qualifying exams.

Course Longevity

A student must complete all requirements for the doctoral degree, including the dissertation, within seven consecutive years of initial registration for that degree. Graduate credits older than seven years are not applicable toward a doctoral degree without written approval from the Graduate Dean. All post-master, doctoral course work (including the dissertation), must be satisfactorily completed by the doctoral student in a maximum of 99 semester credit hours. If the Graduate Dean approves in writing that a student may proceed beyond the 99 credit hour limit, the student will be assessed out-of-state tuition.

Residency

The residency will be three consecutive semesters beginning with full time residency in the summer term, followed by consecutive fall and spring semesters with a minimum of 6 semester hours in each term.

Course Work

The total program consists of a minimum of 69 semester hours beyond the master's degree. Candidates enter as a cohort group and follow the program in a designed course sequence leading to the research component and the writing of a dissertation.

Dissertation

A dissertation must be prepared under the direction of the major professor and approved by the student's graduate committee. The dissertation may be directed toward either a scientific conclusion oriented study or toward a practical decision oriented investigation.

Full-Time Status

A full-time status course load is 6 semester credit hours during the fall and spring semesters and 3 semester credit hours during each of the summer sessions. For students at the dissertation stage, enrollment in the dissertation 6399 course shall constitute a full load.

COUNSELING AND GUIDANCE (EDCG)**6301. Emotional Intelligence: an Integrated Model for Counseling and Educational Leadership.** 3(3-0)

Approach for counseling and educational leadership using an education-based model of emotional intelligence. An integrated program model to build and foster positive human development and leadership by identifying, understanding, learning and applying the key skills and competencies of emotional intelligence, constructive thinking and hemispheric functions of the brain. A practical and research-based model of human emotional behavior that advanced students in counseling and educational leadership can apply to meet new expectations and needs of a changing society and educational systems.

EDUCATIONAL LEADERSHIP (EDLD)**6301. Philosophy of Education.** 3(3-0)

Ontological, epistemological and axiological perspectives on various philosophical schools of thought related to education.

6302. Research Seminar. 3(3-0)

Current issues in educational leadership research; national, state and regional perspectives examined.

6303. The Politics of Education. 3(3-0)

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.

- 6311. Contemporary Theories of Educational Leadership.** 3(3-0)
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.
- 6312. Clinical Leadership Laboratory.** 3(3-0)
Students undergo assessment of personal leadership skills through assessment center methodologies. Abilities assessed include decision making, group participation, interpersonal communication and presentation skills.
- 6313. Policy Development and Decision-Making.** 3(3-0)
Study of policy conceptualization; development and implementation integrated with decision-making processes; ethical and moral responsibility of educational leadership.
- 6314. Professionals in Educational Organizations.** 3(3-0)
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.
- 6315. Multicultural Analysis: Concepts for Educational Leaders.** 3(3-0)
Examines multicultural relations in American society and explores solutions to critical problems confronting educational systems in general and educational leaders in particular into the twenty-first century. Prerequisites: admission to the Joint University Doctor of Education program at Texas A&M-Kingsville and Texas A&M-Corpus Christi.
- 6321. Instructional Theory.** 3(3-0)
Theoretical basis for understanding instructional models and processes; research relevant to factors influencing instructional effectiveness and the interaction among instructional and learning variables.
- 6322. Analysis of Learning Environments.** 3(3-0)
Analysis of the school and classroom social system; examination of social, cultural and psychological variables that influence school learning.
- 6323. Advanced Topics in Educational Leadership.** 3(3-0)
Selected topics in an identified area of educational leadership; advanced investigations of selected topics and problems dealing with curriculum, theory, legal issues, program design and experimental formulations. May be repeated for credit when topics vary.
- 6324. Curriculum Theory.** 3(3-0)
An analysis of theoretical structures underlying curriculum development, implementation and evaluation.

6325. Student Personnel Services in Higher Education. 3(3-0)

Provides an overview of the conceptual and operational aspects that impact the student personnel programs of higher education institutions in the United States. Is designed to prepare individuals for leadership positions in the field. An overview of content areas of personnel services offered in colleges and universities. Legal, ethical and professional identity issues are also examined.

6326. Curriculum/Program Planning and Evaluation in Higher Education. 3(3-0)

Provides an overview of the conceptual and operational aspects at impact curriculum and instruction in higher education institutions in the United States. Emphasis is on strategies for anticipating future societal needs and developing higher educational curriculum to meet those needs. Is designed to prepare individuals for teaching and leadership positions in higher education and education related fields.

6331. Educational Innovations. 3(3-0)

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.

6333. Statistical Reasoning 3(3-0)

Introduction to statistics for educational leaders. Topics include: descriptive and inferential statistics: frequency distributions, central tendency, variability; the normal curve, z-scores, percentile ranks; hypothesis testing, one-sample test, estimation, single-factor analysis of variance (one-way ANOVA) bivariate correlation, bivariate regression and effect size indices. Course also includes hands-on microcomputer laboratory experiences in the use of the Statistical Package for the Social Sciences (SPSS) with exercises related to the topics covered.

6334. Qualitative Research Design. 3(3-0)

Experimentally based study of qualitative research philosophy, nature, purposes, design and practice. Additionally, course will elaborate as well as expand knowledge of the methods and various approaches to social sciences and educational research diversely known as ethnographic, participant observation, qualitative, case study, naturalistic or interpretive.

6335. Quantitative Research in Educational Leadership 3(3-0)

Involves exploration and application of current research in educational leadership and curriculum. Topics covered include quantitative methods of educational research. Prerequisites: EDLD 6334, EDLD 6392.

6392. Advanced Topics in Statistical Reasoning. 3(3-0)

Topics covered will be parametric and non-parametric procedures, prediction and association methods and test construction and scaling. Includes hands-on microcomputer experience in the use of the Statistical Package for the Social Sciences (SPSS) with exercises related to the topics covered. Prerequisite: EDLD 6333.

6397. Dissertation Research. 3(3-0)

Principles of research design as they apply to both descriptive and experimental studies in educational leadership. Prerequisite: EDLD 6335.

6398. Dissertation in Progress. 3

Completion of an approved field study under the supervision of a dissertation adviser.

SOCIOLOGY (SOCL)

6302. Community Development. 3(3-0)

Ethical perspectives on community development; processes by which groups within a community work together to fulfill community needs through interinstitutional cooperation; establishing cross-institutional linkages; public and private resources for community development; structures and processes of interinstitutional cooperation; examples of existing and needed structures and processes in the South Texas region.

6303. Regional Analysis. 3(3-0)

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 the South Texas region.

DOCTORAL PROGRAM IN ENGINEERING

DOCTOR OF PHILOSOPHY IN ENVIRONMENTAL ENGINEERING

Venkatesh Uddameri, *Graduate Coordinator*
Engineering Complex 373. MSC 213. Extension 2742.
yuddameri@tamuk.edu

Graduate Faculty: Lee Clapp, Kuruvilla John, Kim D. Jones, Alvaro I. Martinez, David Ramirez, Jianhong Ren, Joseph Sai, Venkatesh Uddameri, Yifang Zhu

The Doctor of Philosophy degree in Environmental Engineering offered by the Department of Environmental Engineering at Texas A&M University–Kingsville prepares students for careers in research, teaching and environmental management. As environmental issues transcend media and geographic borders, it is increasingly important for the environmental professional to be able to address issues and derive solutions from a holistic basis. Students enrolled in the program are exposed to the fundamental principles, tools and applications in Environmental Systems Engineering spanning eight areas: 1) Air Quality, 2) Water Quality, 3) Solid/Hazardous Waste, 4) Ecological Engineering, 5) Environmental and Occupational Health, 6) Environmental Systems, 7) Environmental Informatics and 8) Environmental Biotechnology.

Entrance Requirements

Students must hold a minimum of a baccalaureate degree and an acceptable combination of GRE scores, TOEFL score (international students) and grade point average. Applications will be considered on an individual basis. Contact the chair, Department of Environmental Engineering for details.

Graduate Committee

The student's Advisory Committee will be comprised of at least four faculty members in addition to the research adviser. At least two of the members, in addition to the research adviser, must be from the Department of Environmental Engineering. The College of Graduate Studies will assign one additional non-voting faculty member, the Graduate College Representative (GCR).

Initial Degree Plan

The student must file an initial degree plan with the Graduate Dean within one semester of being admitted to the Ph.D. program in Environmental Engineering.

Course Longevity

A student must complete all requirements for the doctoral degree, including the dissertation, within nine consecutive years of initial registration. Graduate credits older than nine years are not applicable toward a doctoral degree without written permission of the Graduate Dean.

All doctoral course work (including the dissertation) will be satisfactorily completed by the doctoral student in a maximum of 99 semester credit hours. If the Graduate Dean approves

in writing that a student may proceed beyond the 99 credit hour limit, the student will be assessed out-of-state tuition.

Qualifying Examination

The student must successfully complete a qualifying examination after completing 15 credit hours of course work and before completing the first 30 credit hours applicable toward the Ph.D. degree, as defined in the initial degree plan. The qualifying exam will be formulated by the faculty in the Department of Environmental and Civil Engineering with the purpose of evaluating the student's grasp of the fundamental topics considered necessary for the successful completion of a Ph.D. in Environmental Engineering. Students failing to pass the qualifying exam may be denied candidacy. Recommendations will be made to students passing the qualifying exam concerning modifications to the initial degree plan to fill identified knowledge gaps.

Admission to Candidacy

The student must apply for candidacy in the Ph.D. program in Environmental Engineering within 30 hours of course work completion applicable to the Ph.D. degree as defined in their initial degree plan. Admission to candidacy requires:

- Successful completion of the qualifying exam
- Selection of a Research Adviser
- Selection of an Advisory Committee
- Filing of a final degree plan
- Submission and successful defense of a dissertation proposal

Dissertation

All candidates will be required to conduct an original scientific or engineering investigation that will become the basis for the Ph.D. dissertation. The student's graduate committee and the graduate dean must approve the dissertation.

Completion

The degree "Doctor of Philosophy" will be conferred on those students:

- Admitted to candidacy.
- Maintaining (for all courses identified on their final degree plan as being applicable and non-foundation or leveling, to the Ph.D. degree) a minimum grade of "C" in each course and a cumulative grade point average of 3.5 or better on a scale of 4.0.
- Successfully defending the dissertation in the presence of the Research Adviser, Advisory Committee and the Graduate College Representative.

Normal Course Load

A full-time status course load is nine-semester credit hour during the fall or spring semesters and three-semester credit hour during each summer session. For students at the dissertation stage, enrollment in the dissertation course (EVEN 6305) may constitute a full load.

ENVIRONMENTAL ENGINEERING (EVEN)

6102. Graduate Seminar in Environmental Engineering.

1(1-0)

Provides students with exposure to multidisciplinary opinions on current and future environmental issues from industrial, scientific, academic, governmental and engineering

experts, in an environment that fosters productive exchange of ideas. Prerequisite: graduate standing in EVEN or related discipline. Credit/Noncredit.

6301. Environmental and Occupational Health. 3(3-0)

Overview of pertinent regulations and regulatory infrastructure. Development and application of the fundamental principles that determine environmental and occupational health. Discussion of methods for controlling environmental occupational hazards. Introduction to Environmental Health and Safety Information Systems.

6304. Internship in Environmental Engineering. V:1-3

Allows environmental engineering graduate students to participate in internships with industry, government and environmental consulting companies in career-based practical activities to broaden the skills obtained through curricular education. Attention will be given to select opportunities where the job training enhances the particular research needs of each student. Credit/Noncredit.

6305. Research in Environmental Engineering. 3(3-0)

Research for Thesis or Dissertation.

6308. Fundamentals of Solid/Hazardous Waste Engineering. 3(3-0)

Overview of pertinent federal and state regulations. Fundamentals of solid/hazardous waste generation, management, treatment and disposal. Emphasis on the modeling aspects of the fate and transport of hazardous waste in the environment. Discussions of assessment planning, waste minimization, effective management of waste material and the application of treatment and disposal technologies.

6309. Fundamentals of Air Quality and Pollution Control. 3(3-0)

Classification of air pollutants by the Clean Air Act and its amendments. Fundamental theories of air pollution and atmospheric science. Air pollution meteorology, atmospheric dispersion modeling and an introduction to air quality models. Control technology of gaseous air pollutants, process design variables applications.

6311. Air Quality Modeling. 3(3-0)

Physico-chemical process analysis of the atmosphere. Discussion of air quality models, types and applications. Development of an atmospheric chemical transport model for urban and regional scale applications. Performance evaluation and statistical assessment of air quality models. Stochastic modeling and analysis of air quality problems. Prerequisite: MATH 3320.

6312. Surface Water Quality Modeling. 3(3-0)

Ecological and human effects assessment; environmental decision criteria; monitoring strategies; environmental exposure assessment; development of pollutant transport, fate and persistence models; model parameter estimation. Prerequisites: MATH 3320.

- 6313. Groundwater Contaminant Transport Modeling.** 3(3-0)
Advanced topics in groundwater flow problems and contaminant transport modeling, including groundwater transport model selection, initialization and calibration with an emphasis on model application to regional water resources protection and planning. Prerequisites: MATH 3320.
- 6314. Ecosystem Modeling.** 3(3-0)
Discussion of ecosystem models, types and applications. Emphasis is placed on incorporation of relevant forcing functions and system processes into models to predict design outcomes for restoration and re-creation. Ecosystem modeling definitions, concepts and principles in their application to understanding ecosystem response to human induced perturbations. Development of a dynamic, ecosystem computer simulation model. Prerequisite: MATH 3320.
- 6315. Fundamentals of Water Quality Engineering.** 3(3-0)
Overview of pertinent regulations and regulatory infrastructure. Introduction to fundamental principles of water supply and pollution control. Characterization of water quality and its relationship to quantity. Development and application of analytical methods for modeling and modifying water quality and in natural and engineering systems.
- 6316. Fundamentals of Environmental Biotechnology.** 3(3-0)
Overview of microbiology fundamentals and development of quantitative tools for describing stoichiometry, microbial energetics, microbial kinetics, biofilm kinetics and bioreactor mass balances. Application of these tools for designing processes for treating solid, liquid and gas phase pollutants, including solid waste composting, wastewater treatment, sludge digestion, bioremediation and air biofiltration. Analysis of complex biological systems involving dynamic multispecies interactions.
- 6318. Environmental Systems Modeling.** 3(3-0)
Designed to introduce the basic approaches for modeling environmental systems. Impacts from anthropogenic activities to the environment will be systematically evaluated via the use of various simulation approaches. Case studies in understanding complex environmental systems will be incorporated to enhance the integrated skills available for model synthesis via multidisciplinary analysis. Prerequisite: MATH 3320.
- 6319. Chemical Principles of Environmental Engineering Design.** 3(3-0)
Discussions and applications of chemical principles in disinfection, air pollution, geochemistry and aquatic, microbial, redox and coagulation chemistry in systems design for environmental engineering. Introduction to chemical computer models for environmental applications. An overview of the biogeochemistry of natural water systems and the chemistry of the atmosphere.
- 6320. Environmental Risk Assessment and Management of Risk.** 3(3-0)
Quantitative and qualitative topics in the characterization of environmental risk and the development of acceptable concentrations. Evaluation of models to develop guideline concentrations and regulatory options and actions to manage risk.

- 6329. Environmental Monitoring and Measurements.** 3(1-3)
An integrated experience in developing and designing laboratory experiments and field sampling campaigns, acquiring and analyzing high quality data for understanding environmental phenomena and presenting experimental results using state-of-the-art communication tools. Emphasis is also on project-oriented, team-based projects that promote collaborative learning.
- 6330. Ecological Engineering.** 3(3-0)
Discussion of the fundamental processes and attributes of natural systems, including hydrology, biogeochemistry and ecology, with the emphasis on the engineer's role in creating and restoring natural systems. Techniques for terrestrial, aquatic and wetland ecosystem creation and restoration, including assessment, planning and construction.
- 6331. Industrial Ecology.** 3(3-0)
Discussion of similarities between ecological systems and industrial systems with the emphasis on material cycles, energy flow, organizational structures and how industries can learn from their natural counterpart. Fundamentals of natural ecosystems as models for the design, creation and operation of industrial ecosystems. Role of engineered ecosystems in industrial ecosystems (e.g., residual-product resource recovery, contaminated site remediation water conservation). Discussion of pollution prevention tools for industrial and process design, including green chemistry and green engineering approaches to process and product design, and environmental performance evaluation tools, including life cycle assessment.
- 6332. Environmental Data Analysis.** 3(3-0)
Topics concerning the unique characteristics of environmental data, the process of statistical characterization, the identification of system changes, the usefulness of non-parametric approaches and the utilization of data in characterizing risk and the determination of acceptable environmental cleanup standards to manage risk. Prerequisites: MATH 3320.
- 6340. Decision Sciences for Environmental Systems.** 3(3-0)
Provides the fundamentals of decision science theory in support of large-scale complex environmental systems analysis. Discussions and lectures will cover the realm of multi-criteria decision-making. The basics of multi-attribute decision-making and multi-objective stochastic programming, gray programming, fuzzy programming and their combinations will be emphasized.
- 6341. Environmental Informatics.** 3(3-0)
Introduction to environmental data types and structures. Discussion of database design and tools, data warehousing; environmental information management using Geographic Information Systems (GIS), theory and environmental application of remote-sensing technologies; environmental knowledge management and decision support using knowledge-based systems.

6342. Engineering Optimization for Environmental Systems. 3(3-0)

Provides the fundamentals of optimization theories and their real world application potential for environmental systems planning and pollution control. Class discussions of fundamental operational research techniques cover linear programming, integer programming, dynamic programming and nonlinear programming. Case studies are designed to deal with the typical planning, design and operation problems for environmental infrastructure systems with regard to complex multidisciplinary decision-making.

6343. Environmental Management Systems. 3(3-0)

Introduces the basic knowledge of current environmental management systems applied in both public and private sectors. Class discussions will cover conventional development of ISO 14001 Environmental Management Systems (EMS) for various levels of organizations. Possible extensions of internal and external environmental auditing, environmental label and life cycle assessment can be made based on relevant Total Quality Environmental Management (TQEM) requirements. Case studies emphasize enterprise strategic environmental management planning for organizations and their stakeholders, in the context of environmental regulatory, law and policy. Topics will be linked with ecoproduct evaluation, environmental performance evaluation and green production planning to search for strategies compatible with ISO 14001-accreditation.

6354. Environmental Regulations and Policy. 3(3-0)

Overview of federal and state regulations and international agreements for the protection of human and environmental health. Legal, social, political and economic patterns and processes, which set the stage for the development of environmental policy. Impacts and interactions of environmental regulation and policy on the design and implementation of environmental management systems in the public and private sectors. Discussion of environmental ethics and interactions with the environmental engineering profession and with the formulation of environmental regulations and policy.

6356. Special Topics in Environmental Engineering. 3(3-0)

Courses offered under this Special Topics designation concentrate on themes not present in the current EVEN curriculum or can also be offered to strengthen and provide further depth of study in important areas of environmental engineering. Topics vary to reflect new developments and interests on emerging areas of environmental engineering. May be repeated when topic changes.

Graduate Council

The Graduate Council shall be composed of sixteen members as follows: 1) The Dean of the College of Graduate Studies; 2) Two representatives from each of the five undergraduate colleges: One representative shall be appointed by the Dean of each college and one representative shall be elected by the Graduate Faculty members of each college; 3) Five at-large members elected by the Graduate Faculty, with no more than two members from any one undergraduate college. The Dean for Graduate Studies is a member and serves as chairman of the Graduate Council.

The Graduate Council shall be the body responsible for recommending policy standards, criteria, regulations and procedures for graduate study in accordance with policies of the Board of Directors. It is the responsibility of the Graduate Council to review all proposals for graduate degree programs and courses and, at its option, existing programs; to establish and review the criteria for membership on the Graduate Faculty. Furthermore, the council is to establish the minimum admission standards, the standards for continuation of graduate students and the residency requirements; to act upon petitions and appeals from the decision of the Graduate Dean; to consider any other matters relevant to the College of Graduate Studies; and to authorize, recommend or instruct the Graduate Dean to take appropriate actions to effect the results of its decisions.

Graduate Council Members

College of Graduate Studies
Interim Dean Thomas Fields

*College of Agriculture, Natural
Resources and Human Sciences*

Appointed

Dr. Fidel Hernandez

Elected

Dr. Michelle Garcia

Dr. Mamoudou Setamou

College of Arts and Sciences

Appointed

Dr. Jieing Chen

Elected

Dr. Enrique Massa

Dr. Roberto Vela Cordova

College of Business Administration

Appointed

Dr. George Wagman

Elected

Dr. Ashley Bennington

Dr. George Gresham

College of Education

Appointed

Dr. Sue Bradley

Elected

Dr. Linda Challoo

Dr. La Vonne Williams

College of Engineering

Appointed

Dr. Patrick Mills

Elected

Dr. Raj Challoo

Dr. Venkatesh Uddameri

Faculty

- Hayder A. Abdul-Razzak**, *Professor of Mechanical Engineering*; B.S., M.S., Ph.D., Illinois Institute of Technology.
- Jacqueline Acuff**, *Lecturer in Language and Literature*; B.A., University of Illinois; M.A., Texas A&M University-Corpus Christi.
- Francisco Aguiniga**, *Assistant Professor of Civil and Architectural Engineering*; B.S., University of Michoacan (Mexico); M.S., University of Illinois at Urbana-Champaign; Ph.D., Texas A&M University.
- Reza Ahangar**, *Associate Professor of Mathematics and Chair, Department of Mathematics*; B.S., Tehran University (Iran); M.S., Ph.D., The Catholic University of America.
- Charles Allison**, *Lecturer in Physics and Geosciences*; B.S., Texas A&I University; M.B.A., Houston Baptist University.
- Irmin Allner**, *Associate Professor and Reference and Instruction, Faculty Services and Special Projects Librarian, Jernigan Library*; B.A., M.A., M.Phil., M.L.S., Ph.D., Syracuse University.
- Faleh T. Al-Saadoon**, *P.E., Professor of Chemical and Natural Gas Engineering*; B.S., M.S., West Virginia University; Ph.D., University of Pittsburgh.
- Mitylene Arnold**, *Associate Professor of Special Education*; B.S., Baylor University; M.Ed., Ed.D., University of Georgia.
- Richard Aukerman**, *Professor of Computer Information Systems and Interim Dean, College of Business Administration*; B.S., M.S., Ph.D., University of North Dakota.
- Maria de Jesus Ayala-Schueneman**, *Professor and Head, Reference and Instruction Services, Interlibrary Loan, Distributed Library Services, Jernigan Library*; B.A., M.A., Texas A&I University; M.L.S., San Jose State University; Ed.D., Texas A&M University-Kingsville.
- Breanna Bailey**, *Assistant Professor of Civil and Architectural Engineering*; B.S., Ph.D., Texas A&M University; M.S., University of Illinois at Urbana-Champaign.
- Kasey Baker**, *Assistant Professor of Language and Literature*; B.A., Texas A&M University; M.A., University of Alaska; Ph.D., The University of Tennessee.
- Shannon Baker**, *Associate Professor of History*; B.A., Siena College; M.A., Ph.D., Texas Christian University.
- Angel Ball**, *Assistant Professor of Biological and Health Sciences*; B.A., M.A., Ph.D., University of Cincinnati.
- Bart Ballard**, *Associate Professor of Animal and Wildlife Sciences and Caesar Kleberg Wildlife Research Institute*; B.S., Iowa State University; M.S., Ph.D., Texas A&M University-Kingsville.
- Santa Barraza**, *Professor of Art*; B.F.A., M.F.A., The University of Texas at Austin.
- Marilyn Bartlett**, *Professor of Educational Leadership and Counseling and Dean, College of Education*; B.S., Worcester State College; M.Ed., Boston University; Ph.D., New York University; J.D., Vermont Law School.

- Sajid Bashir**, *Assistant Professor of Chemistry*; B.S., University of Wales (England); M.A., State University of New York at Buffalo; Ph.D., The University of Warwick (England).
- Jon Alan Baskin**, *Professor of Biological and Health Sciences*; B.A., New York University; M.A., University of Arizona; Ph.D., University of Florida.
- Shari Schlehuser Beams**, *Associate Professor of Biological and Health Sciences*; B.S., M.S., Ph.D., Purdue University.
- Nicholas R. Beller**, *Associate Professor of Chemistry*; B.S., University of Florida; M.S., Ph.D., University of New Mexico.
- Ashley Bennington**, *Associate Professor of Management and Marketing*; B.A., Metropolitan State College of Denver; M.A., Ph.D., The University of Texas at Austin.
- Apurba Bhattacharya**, *Associate Professor of Chemistry*; B.S., Calcutta University (India); M.S., Indian Institute of Technology (India); Ph.D., The University of Texas at Austin.
- Ralph Lee Bingham**, *Professor of Mathematics and Caesar Kleberg Wildlife Research Institute*; B.A., M.A., University of Montana; Ph.D., The University of Texas at Austin.
- Betty Jean Black**, *Lecturer in University College and Reading Coordinator*; B.S., M.Ed., Texas A&I University.
- Shirley Ann Bleidt**, *Associate Professor of Curriculum and Instruction*; B.S., M.S., Texas A&I University; Ed.D., Texas A&M University-Kingsville.
- Judith K. Bloomquist**, *Lecturer in Health and Kinesiology*; B.S., Texas A&M University-Corpus Christi; M.S., Texas A&M University-Kingsville.
- George S. Boatright**, *Assistant Professor and Head, Access Services, Jernigan Library*; B.A., M.L.S., University of Oklahoma.
- Slavka Bodjanova**, *Professor of Mathematics*; B.S., M.S., Ph.D., Comenius University (Czechoslovakia).
- Telva Joe Boehm**, *P.E., Associate Professor of Electrical Engineering and Computer Science*; B.S.E.E., The University of Texas at Austin; M.S., Ph.D., Oklahoma State University.
- Diana Borse**, *Lecturer in English*; B.A., M.A., Texas A&M University-Kingsville.
- Jack A. Bradley**, *Professor of Curriculum and Instruction*; B.A., Michigan State University; M.Ed., University of West Florida; Ed.D., Texas A&M University.
- K. Sue Bradley**, *Professor of Curriculum and Instruction*; B.A., M.A., Michigan State University; Ed.D., Texas A&M University.
- Leonard A. Brennan**, *Professor of Animal and Wildlife Sciences and Endowed Chair in Quail Research, Caesar Kleberg Wildlife Research Institute*; B.S., The Evergreen State College; M.S., Humboldt State University; Ph.D., University of California, Berkeley.
- Jody A. Briones**, *Lecturer in Language and Literature*; B.A., Texas A&M International University; M.A., Texas A&M University-Corpus Christi.
- G. Martin Brittain**, *Lecturer in Accounting and Computer Information Systems and Assistant Dean, College of Business Administration*; B.B.A., Baylor University; M.B.A., Texas A&I University.

Daniel Brown, *Associate Professor of Biology and Dean of University College*; B.S., M.S., Pittsburg State University; Ph.D., Oklahoma State University.

Michelle Stallone Brown, *Associate Professor of Educational Leadership and Counseling*; B.S., Pennsylvania State University; M.A., Baylor University; Ed.D., Texas A&M University-Kingsville.

Fred C. Bryant, *Professor of Animal and Wildlife Sciences and Endowed Directorship of Caesar Kleberg Wildlife Research Institute*; B.S., Texas Tech University; M.S., Utah State University; Ph.D., Texas A&M University.

John Buckley, *Lecturer in Physics and Geosciences*; B.A., M.A., Ph.D., The University of Texas at Austin.

Edward J. Butterworth, *Assistant Professor of Physics and Geosciences*; B.A., University of Massachusetts; M.A., Ph.D., Fordham University; Ph.D., The University of Alabama at Birmingham.

David S. Calloway, *Lecturer in Health and Kinesiology and Coach, Athletics*; B.A., Langston University; M.A., Hastings College.

Esther Camacho, *Visiting Assistant Professor and Reference/Education Librarian, Jernigan Library*; B.A., Texas A&M University-Corpus Christi; M.L.S., Texas Woman's University.

Glenna Sue Cannon, *Associate Professor of Curriculum and Instruction and Certification Officer*; B.A., Southern Methodist University; M.Ed., Ph.D., The University of Texas at Austin.

Ruben Cantu, *Lecturer in Health and Kinesiology, Associate Athletic Director, and Head Athletic Trainer*; B.S., Baylor University; M.S., Texas A&I University.

Mario E. Carranza, *Professor of Political Science*; B.A., Licenciado en Sociologia, University of Buenos Aires (Argentina); Ph.D., The University of Chicago.

Christopher J. Carrillo, *Assistant Professor of Music*; B.M., University of Memphis; M.M., D.M.A., The University of Texas at Austin.

Sara A. Carrion, *Instructor in Human Sciences*; B.A., St. Mary's University; M.S., University of the Incarnate Word.

Catherine R. A. Carroll, *Associate Professor of Mathematics*; B.A., University of Illinois; Ph.D., University of California, Berkeley.

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LIST OF COURSE PREFIXES

The following are the keys to the prefixes used with the course numbers:

ACCT	Accounting	EDRG	Reading (Education)
ADED	Adult Education	EDSE	Special Education
AGBU	Agribusiness	EDSL	English as a Second
AGRI	General Agriculture	EEEN	Electrical Engineering
AGSC	Agriculture Science	ENGL	English
ALGE	Algebra	EVEN	Environmental Engineering
ANSC	Animal Science		
ANTH	Anthropology	FINC	Finance
ARTS	Art	FREN	French
BIOL	Biology	GEEN	General Engineering
BCOM	Business Communications	GEOG	Geography
BLAW	Business Law	GEOL	Geology
BUAD	Business Administration	GERO	Gerontology
CEEN	Civil Engineering	HIST	History
CHEM	Chemistry	HSCI	Human Sciences
CHEN	Chemical Engineering		
CISA	Computer Information Systems	IEEN	Industrial Engineering
COMJ	Journalism	IMEN	Industrial Management
COMM	Communications	ITEN	Industrial Technology
COMS	Speech		
CRIM	Criminology	MATH	Mathematics
CSDO	Communication Sciences and Disorders	MEEN	Mechanical Engineering
CSEN	Computer Science	MGMT	Management
		MKTG	Marketing
		MUSA	Music (Applied)
		MUSI	Music
ECON	Economics		
EDAD	Educational Administration	NGEN	Natural Gas Engineering
EDBL	Bilingual Education		
EDCG	Counseling and Guidance	PHIL	Philosophy
EDEC	Early Childhood	PHYS	Physics
EDED	Education	PLSS	Plant and Soil Science
EDHL	Health	POLS	Political Science
EDKN	Kinesiology	PSYC	Psychology
EDLD	Educational Leadership		

LIST OF COURSE PREFIXES CONT.

RAMT	Ranch Management	STAT	Statistics
READ	Reading (University College)	SWBS	Southwest Borderlands Studies
RELG	Religion		
ROTC	Military Science	THEA	Theatre Arts
RWSC	Range and Wildlife Science		
		WMST	Women's Studies
SCWK	Social Work	WRIT	Writing
SOCI	Sociology	WSCI	Wildlife Science
SPAN	Spanish		

ADMISSION REQUIREMENTS

- Graduate Application
\$35 application fee
Official transcript(s) of all colleges and universities attended
Results of the appropriate nationally standardized examination scores (GRE, GMAT, MAT)
- International Application
\$50 application fee
Official transcript(s) of all college work (foreign transcripts must be translated into English and certified by the Ministry of Education or comparable agency)
Results of TOEFL scores
Results of appropriate nationally standardized examination scores (GRE, GMAT or MAT)
Proof of ability to meet personal and academic expenses

Students interested in applying for admission at Texas A&M University-Kingsville can obtain the necessary forms by contacting us at the address and phone numbers listed below.

Students may also apply on-line by logging onto the Texas A&M University-Kingsville web site at www.tamuk.edu or by completing the ApplyTexas Application at www.applytexas.org (If using the common application, please complete part 1. No essay is required.)

Office of Admissions
Texas A&M University-Kingsville
MSC 128
700 University Boulevard
Kingsville, Texas 78363-8202
800 687-6000 or
361 593-2315

International Admissions
Texas A&M University-Kingsville
MSC 167
700 University Boulevard
Kingsville, Texas 78363-8202
800 687-6000 or
361 593-2315