Southwest Texas State University

GRADUATE CATALOG
1993-95

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Accrediting Commission on Education for Health Services Administration
American Association of colleges for Teacher Education
American Chemical Society
American Speech, Language, and Hearing Association
Association of State Colleges and Universities
Association of Texas Colleges and Universities
Association of Texas Graduate Schools
Council of Colleges of Arts and Sciences
Council of Graduate Schools in the United States
National Association of School Psychologists
National Association of Schools of Music
National Association of Schools of Public Affairs and Administration
Southern Association of Colleges and Universities
Texas Association of Colleges for Teacher Education
Texas Education Agency

No person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under any program or activity sponsored or conducted by Southwest Texas State University on any basis prohibited by applicable law, including, but not limited to, race, color, age, national origin, religion, sex, or handicap.

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J. Michael Willoughby, Ed.D. ..............................................................Dean of the Graduate School

Dean of Student Affairs

John H. Garrison, Ph.D. ...........................................................................Dean of Students

University Calendar

An up-to-date university calendar will be available in the official SWT Schedule of Classes (published at the beginning of each long semester.)
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General Information

Setting

Located in San Marcos at the foot of the Texas Hill Country, where blackland prairies turn into beautiful hills, Southwest Texas State University enjoys a setting that is unique among Texas universities. The beauty of the crystal clear San Marcos River and many sprawling cypress and pecan trees on the campus adds to the charm of this picturesque locale. Although major metropolitan centers are not far away, San Marcos has managed to retain the charm of a smaller community, and Southwest Texas State University still has a real university atmosphere — a place where faculty and students take the processes of teaching and learning seriously.

History

Southwest Texas State University was established in 1899 by the Twenty-Sixth Legislature as "Southwest Texas State Normal School." Opening its doors in 1903 with only 303 students, Southwest Texas State University has expanded from a two-year normal school to a multi-purpose university with an enrollment of over 20,000.

Since its founding, the university has grown and developed in terms of enrollment, curriculum, and stature. Its widened scope has matched legislative action that has changed its name through four distinct phases of development.

In 1923, the school became "Southwest Texas State Teachers College." In 1959, the word "Teachers" was dropped from its title. The Sixty-First Legislature changed the name to "Southwest Texas State University" in 1969, recognizing that Southwest Texas had become a first-class regional, state, and national institution of higher learning.

Southwest Texas is part of the Texas State University System and is governed by a nine-member Board of Regents. Other universities in the system include Angelo State University, Sam Houston State University and Sul Ross State University. The first president was Mr. T. G. Harris, who served from 1903 to 1911. He was followed by Dr. C. E. Evans, 1911-1942; Dr. J.G. Flowers, 1942-1964; Dr. James H. McCrocklin, 1964-1969; Dr. Leland E. Derrick (acting), 1969; Dr. Billy Mac Jones, 1969-1973; Mr. Jerome C. Cates (interim), 1973-1974; Dr. Lee H. Smith, 1974-1981; Mr. Robert L. Hardesty, 1981-1988; Dr. Michael L. Abbott (interim), 1988-1989; and Dr. Jerome H. Supple, 1989-present.

Authorization

The establishment of a Graduate School at Southwest Texas State University (SWT) was authorized by the Board of Regents at its meeting on July 15, 1935. Graduate courses were first offered during summer, 1936, and the first Master of Arts degree was conferred at the spring, 1937, commencement.

The Board of Regents authorized the granting of the Master of Education degree in 1950. In 1968, action of the Coordinating Board, Texas College and University System, added the degree of Master of Business Administration.

The university was authorized to grant the degrees of Master of Science and Master of Arts in Teaching in 1972. In 1973, the degrees of Master of Public Administration and Master of Science in Health Professions were authorized. The degrees of Master of Arts in Interdisciplinary Studies and Master of Science in Interdisciplinary Studies were authorized in 1978. In 1979, the Master of Science and Master of Arts degrees with majors in Computer Science were authorized by the Coordinating Board.
A non-thesis option Master of Arts degree with majors in Speech Communication and Theatre Arts was approved in 1980. A Master of Education and a Master of Arts with majors in Educational Administration were also authorized. During fall, 1981, the Coordinating Board authorized two new majors within the Master of Education degree: Special Education and Agricultural Education. In addition, the Master of Music replaced the Master of Education for the Music Performance and Music Education programs. And in spring, 1983, the Coordinating Board authorized implementation of a Master of Applied Geography degree. Authorization was obtained for a major in School Psychology under the Master of Education degree in 1985. In 1986 the Master of Science in Communication Disorders was approved by the Coordinating Board. The Master of Arts with a major in Developmental Education was approved effective fall, 1988, as well as a Master of Education with a major in Computer Science. During 1989, the Master of Science in Criminal Justice was authorized. A Master of Fine Arts degree with a major in Creative Writing offered through the School of Liberal Arts was approved in fall, 1990. Most recently the Master of Accountancy offered through the School of Business was approved in spring, 1993.

Organization

The university is organized into the School of Applied Arts and Technology, the School of Business, the School of Education, the School of Fine Arts and Communication, the School of Health Professions, the School of Liberal Arts, the School of Science, and the Graduate School. All undergraduate students enter SWT through the College of General Studies.

Objectives of the Graduate School

The purpose of the Graduate School is to provide the means for continued intellectual growth through advanced and specialized education. The ultimate aim is to develop leaders in the professions and in research. More explicitly, the following objectives have been adopted to add both breadth and depth to the academic and professional preparation received at the undergraduate level:

• To reinforce and extend students' academic and professional experience as a means of improving professional competence.
• To familiarize students with current and recent research in their fields; to acquaint them with the techniques of research; and to enable them to interpret their own and current research, to derive significant implications therefrom, and to apply pertinent findings.
• To challenge students intellectually, to develop their power of independent thought, and to direct them toward the goal of greater effectiveness in both their personal and professional lives.

Characteristics of Graduate Study

Graduate study affords students of superior ability ample opportunity to continue their intellectual growth and development. It presupposes a broad background of knowledge, adequate preparation in the major and minor fields of study, and a command of the skills and techniques needed to carry on intensive research and investigation with a high degree of resourcefulness and self-direction. Policies of the Graduate Council provide that graduate instruction differs from undergraduate instruction in at least the following respects:

• The graduate student is expected to assume greater responsibility and to exercise more initiative.
• More emphasis is placed on bibliography and on the use of library materials.
• More extensive reading is required.
• More comprehensive papers and reports are required.
• Seminar methods are employed more frequently, requiring more class participation by the student.

Multicultural Policy Statement

Southwest Texas State University believes that freedom of thought, innovation and creativity are fundamental characteristics of a community of scholars. To promote such a learning environment, the university has a special responsibility to seek cultural diversity, to instill a global perspective in its students, and to nurture sensitivity, tolerance and mutual respect. Discrimination against or harassment of individuals on the basis of ethnicity, sex, religion, or race are inconsistent with the purposes of the university.

Student Identification by Social Security Number

From time to time the university requires that its students and applicants for admission furnish their social security numbers. The university uses these social security numbers to verify identities. Disclosure of these social security numbers is mandatory. The university’s record-keeping system was established prior to January 1, 1975, pursuant to the authority given the Board of Regents, Texas State University System, in Section 95.21 of the Texas Education Code. These numbers are also solicited under the statutory authority of 42 U.S.C.A. Section 405 (c) (2) (C).

Disabled Student Services

The goal of the Disabled Student Services Office (DSS) is to enable students with disabilities to assist themselves in achieving their educational goals and enhancing their leadership development through participation in all facets of campus life. DSS functions as a clearinghouse for all students with disabilities, identifying and assessing needs, providing direct services, and referring students to appropriate resources on and off campus. DSS also promotes awareness of the needs and abilities of the disabled through educational events and activities and provides information, education and consultation about specific disabilities. For information, students should contact the Office of Disabled Student Services (DSS), Room 307, LBJ Student Center, (512) 245-3451.

Handicapped parking is available for students with permanent disabilities who have a state-issued license plate or windshield card. Students with temporary disabilities can receive a time-limited handicapped parking permit from Permits and IDs. For details, contact the Permits and IDs Office, (512) 245-3451. CB and TCD are both located in Austin.

DSS works closely with the Student Learning Assistance Center, Student Support Services and the Counseling Center. These offices assist with study skills, tutoring, counseling and other support services.

Additional information about university policies regarding students with disabilities may be obtained by reading UPPS 07.11.01 or by calling the DSS Office, (512) 245-3451.

Albert B. Alkek Library

The Alkek Library contains some 930,000 volumes of books, documents, and bound periodicals. In addition, there are some 161,000 volume equivalents in microform and 13,700 title units in AV software, which includes over 800 software pro-
grams for the public microcomputer area. The library receives over 5,800 periodical and serial titles.

Reference service is available during all library hours. An outline catalog which can also be accessed from off campus via modem provides information on the library's holding. Other automated services include CD ROM indexes and access to approximately 250 data bases throughout the nation. The library maintains cooperative borrowing privileges with other libraries, including Interlibrary loan services. Membership in a nation-wide bibliographic data base affords instant communication about possible loans from 6,000 libraries. Library support facilities include a microcomputer lab with 60 Macintosh, Apple and IBM compatible workstations, typewriters, coin-operated photocopying machines, public telephones, public vending machines, and a lounge.
Graduate Council

The Graduate Council governs the policies of the Graduate School, and these policies are administered by the Dean of the Graduate School. Besides the Dean, who serves as Chair, the Graduate Council is composed of a voting representative of each department which offers a graduate major and a non-voting representative from each department offering only a graduate minor or support courses. The President of the University, the Vice President for Academic Affairs, and the University Registrar are ex-officio members of the Council.

Voting Members

J. Michael Willoughby, Dean of the Graduate School, Chair
Andy Batey, Jr., Department of Technology (1988-1993)
Peter Coulson, Department of Theatre Arts (1981-1993)
Charles H. Dolezal, Department of Curriculum and Instruction (1975-1993)
Dr. Ann Marie Ellis, Sociology (1992-1993)
Joseph L. Humphrey, Department of Accounting (1992-1996)
James D. Irvin, Department of Chemistry (1984-1995)
William R. Jackson, Department of Physics (1988-1996)
Michael Keeffe, Department of Management and Marketing (1992-1996)
James B. Lingwall, Department of Allied Health Sciences (1991-1995)
Roseanne M. Mandziuk, Department of Speech Communication (1990-1994)
Dr. Tom McCabe, Computer Science (1992-1994)
Ingeborg R. McCoy, Department of Modern Languages (1983-1995)
Dr. Wayman c. Mullins, Criminal Justice (1992-1993)
Michael Nowicki, Department of Health Administration (1988-1993)
Gregory B. Passty, Department of Mathematics (1987-1995)
James W. Pohl, Department of History (1975-1995)
Lon R. Shell, Department of Agriculture (1988-1996)
Sent Visser, Department of Geography and Planning (1992-1996)
George M. Weinberger, Department of Political Science (1985-1996)
Dr. Francis L. Rose, Department of Biology (1993-1997)
Byron A. Wolverton, Department of Music (1978-1994)

Non-voting Members

D. Theron Stimmel, Department of Psychology (1984-1995)
G. Sue Thompson, Department of Home Economics (1988-1996)
Marshal R. Wortham, Department of Art (1979-1995)

Ex-officio Members

Jerome H. Supple, President of the University
Robert D. Gratz, Vice President for Academic Affairs
M. Louise Johnson, University Registrar
Admission Policies

General Admission Policies

The requirements set forth on the following pages are the minimum for admission to the Graduate School. Meeting these requirements does not necessarily ensure acceptance into a graduate program. Applicants must receive departmental recommendation for admission after the application files are completed in the Office of the Graduate School. In addition, many departments have established admission standards more stringent than the minimum requirements. Some departments recommend that applicants arrange a personal interview with the appropriate departmental graduate adviser. Final admission approval is granted by the Dean of the Graduate School. The university reserves the right to deny admission to any prospective or former students who have criminal records including any conviction of a felony, offenses involving moral turpitude, or other offenses of serious nature.

Application Deadlines

Students who hold an acceptable four-year baccalaureate degree must submit an application to the Office of the Graduate School if they wish to pursue a master's degree at SWT, take certification course work, take background courses, or take courses for personal enrichment.

Application materials should be submitted to the Office of the Graduate School no later than the following deadline dates to ensure processing for the desired semester:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>July 15</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>November 15</td>
</tr>
<tr>
<td>Summer Session I</td>
<td>April 15</td>
</tr>
<tr>
<td>Summer Session II</td>
<td>June 1</td>
</tr>
</tbody>
</table>

Applications received after the published deadline dates will be processed on a time-available basis only. Many departments strictly enforce the published deadlines and will accept no applications after the above referenced dates. The Office of the Graduate School will make every effort to process late applications, but there are no guarantees that your file will be processed for your desired semester of entry if you have missed the deadline.

Application Deadlines For International Students

<table>
<thead>
<tr>
<th>Semester</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>June 15</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>October 15</td>
</tr>
<tr>
<td>Summer Session I</td>
<td>March 15</td>
</tr>
<tr>
<td>Summer Session II</td>
<td>May 1</td>
</tr>
</tbody>
</table>

*No international student applications will be processed after the published deadlines.*

Applications are for specific semesters. Contact the Office of the Graduate School to update your application for enrollment in a subsequent semester if you are unable to enter the semester for which you were accepted. You should do this as soon as you know that you will not be enrolling for your semester of acceptance.

Admission of Degree-Seeking United States Citizens

Admission to the Graduate School as a degree-seeking student requires:

1. An official application for admission.
2. **Two official transcripts from each college or university attended. These must be mailed directly from the schools to the SWT Office of the Graduate School.** SWT graduates only need to have two official SWT transcripts sent if the SWT transcript reflects all college work attempted, including work taken at other schools. Official transcripts must still be ordered from any colleges not listed on the SWT transcript. Former or currently enrolled SWT students may obtain free transcripts to be sent directly to the SWT Graduate School by calling 245-2728.

3. An acceptable score on the General portion of the Graduate Record Examination (GRE) — or an acceptable score on the Graduate Management Admission Test (GMAT) if you will be seeking an MBA degree or M.Acy.

4. Acceptance by your proposed major department.

5. Acceptance by the Dean of the Graduate School.

6. That you possess, or will earn during the semester you are admitted to graduate school, an acceptable baccalaureate degree from an accredited institution. Additionally, you must have fulfilled the residency requirement at the school which granted your degree.

7. A non-refundable admission/evaluation fee if your required application documents include foreign credentials. Graduate Management Admission Test—See GMAT

See the "Admission Documents" section for information on required scores and additional details.

**Admission of Degree-Seeking Non-United States Citizens (International Students)**

An international applicant is defined as an applicant who is not a citizen of the United States. Non-permanent residents attend American colleges and universities as guests of the United States government. All non-U.S. citizens fall under regulations of the Immigration and Naturalization Service of the United States Department of Justice. University rules applying to non-U.S. citizens must comply with federal law; hence, admission requirements for international students, including permanent residents, differ from those for United States citizens.

Admission to the Graduate School under degree-seeking status for an international student requires:

1. A non-refundable admission/evaluation fee.

2. An official application for admission.

3. **Two official transcripts in English translation from each college or university attended mailed directly from the schools to the SWT Office of the Graduate School.** SWT graduates only need to have two official SWT transcripts sent if the SWT transcript reflects all college work attempted, including work taken at other schools. Other transcripts must be ordered from any colleges or universities not listed on the SWT transcript. Former or currently enrolled SWT students may obtain free transcripts to be sent directly to the SWT Graduate School by calling 245-2728.

4. Diploma or degree certificate in English translation showing the type of degree earned and the date the degree was conferred.

5. An acceptable score on the General portion of the Graduate Record Examination (GRE) verbal and quantitative portions combined; or, if you will be seeking an MBA or M.Acy. degree, an acceptable score on the Graduate Management Admission Test (GMAT) on file in the Office of the Graduate School prior to your MBA or M.Acy. application file being evaluated.

6. An acceptable Test of English as a Foreign Language (TOEFL) score if English is not your native language. Note: The TOEFL requirement might be waived if you already possess a degree from an accredited American university located in the United States.
7. Acceptance by your proposed major department. An international applicant must be accepted for a program of study approved by a department.

8. Acceptance by the Dean of the Graduate School.

9. That you possess, or will earn during the semester you are admitted to graduate school, an acceptable baccalaureate degree from an accredited institution. Additionally, you must have fulfilled the residency requirement at the school which granted your degree.

10. Additional examinations as follows:
   a. If you will be seeking an MBA or M.Acy. degree, an acceptable score on the Test of Spoken English (TSE) on file in the Office of the Graduate School prior to your MBA or M.Acy. application file being evaluated. Note: The TSE is required of international MBA or M.Acy. applicants who are native speakers of English as well as non-native speakers of English.
   b. If you will be seeking an MPA degree, an acceptable score on the Test of Written English (TWE) on file in the Office of the Graduate School prior to your MPA application file being evaluated. Note: The TWE is required of international MPA applicants who are native speakers of English as well as non-native speakers of English.

11. A refundable tuition/fees deposit submitted to the SWT Office of Admissions if you receive official acceptance notification from the Graduate School. In addition, international students must furnish proof of sufficient financial resources for their educational and personal expenses. Proof of a minimum of $10,500 support for the academic year is required. Proof of additional funds is required for persons attending summer sessions. Contact the SWT Office of Admissions for more information.

See the “Admission Documents” section for information on required scores and additional details.

Admission of Degree-Seeking Former SWT Students

A. If you last attended SWT as an undergraduate student working on a baccalaureate degree and you now plan to seek a graduate degree at SWT, you must:
   1. As a United States citizen, meet all requirements as identified above under the United States citizen category; or,
   2. As a non-United States citizen, meet the application, transcript, degree, English proficiency (TOEFL/TSE/TWE), GRE/GMAT, and departmental and graduate dean approval requirements as identified above under the non-United States citizen category. You must also update your financial support verification with the International Student Admissions Specialist in the SWT Office of Admissions.

B. If you last attended SWT as a graduate degree-seeking student or you have obtained your graduate degree already and you now plan to seek another graduate degree at SWT, you must, as either a United States citizen or a non-United States citizen meet the following criteria:
   1. Submit a new application for admission.
   2. Have two official SWT transcripts which show your graduate work (and two official transcripts of any other school transcripts showing work taken since your last attendance at SWT) forwarded to the SWT Graduate School. Former or currently enrolled SWT students may obtain free transcripts to be sent directly to the SWT Graduate School by calling 245-2728.
   3. Have an official GRE (GMAT for prospective MBA or M.Acy. students) score forwarded to the SWT Graduate School.
   4. Meet departmental and graduate dean approval. International students who are applying to the MBA or M.Acy. program must meet the TSE re-
requirements. International applicants applying to the MPA program must meet the required scores on the TWE and the TOEFL (not waived for holders of U.S. degrees).

Non-United States citizens must update their financial support verification with the International Student Admissions Specialist in the SWT Office of Admissions.

C. If you last attended SWT under a non-degree seeking status (as a post-graduate, special student, etc.) and you now plan to seek a graduate degree at SWT, then you must meet all requirements as listed above under the United States citizen category; or if you are a non-U.S. citizen, then you must meet the requirements identified above under the non-United States citizen category.

Also see the "Categories of Admission" section for descriptions of the various non-degree admission categories.

D. If you previously attended SWT and do not meet the above definitions (A, B, or C), you will need to contact the Office of the Graduate School for specifics regarding your admission.

Admission policies vary from program to program be sure to check individual departments for additional admission requirements.

Admission of Students Who Are on Probation/Suspension at Their Former Schools

Students on probation or suspension at other colleges or universities are not eligible for admission consideration to the Southwest Texas State University Graduate School.
Admission Documents

All admission materials must be filed with the office of the Dean of the Graduate School. The mailing address is as follows:

Office of the Graduate School
Southwest Texas State University
601 University Drive
San Marcos, TX 78666-4605

Admission materials should be forwarded to this address and not to any specific departments. Some departments may require additional material, but you must first clear your admission through the Office of the Graduate School. ALL MATERIALS SUBMITTED BECOME THE PROPERTY OF THE UNIVERSITY AND CANNOT BE RELEASED. Incomplete application files are kept for only one year and are then destroyed.

Application for Admission

An application for admission to the Graduate School must be made on the official form which may be found in the back of this catalog or the application may be obtained from the Office of the Graduate School. This application is not the same as the application which undergraduate students complete. In addition to the required general Application for Admission to the Graduate School, some departments or programs require applicants to complete a separate "program application." You are encouraged to contact your proposed major department for specifics.

Official Transcripts

If you plan to seek a graduate degree at SWT, you must have two official transcripts from each school you attended sent to the SWT Graduate School. The transcripts can not be hand-carried nor mailed by you. The transcripts must reflect all college work attempted and any degree(s) conferred. Former or currently enrolled SWT students may obtain free transcripts to be sent directly to the SWT Graduate School by calling 245-2728.

Transcripts from foreign institutions must be accompanied by English translations, if appropriate, and must carry any additional legends which will assist in their evaluation.

Graduate Record Exam

All applicants under the degree-seeking admission status are required to take the General section of the Graduate Record Examination (Verbal and Quantitative portions combined) except for prospective MBA or M.Acy. students (see GMAT information below). Subject examinations are not accepted. Several programs (including but not limited to allied health research, computer science, counseling and guidance, criminal justice, public administration, developmental education, health care administration, and school psychology) also require you to have your GRE score on file prior to admission to the SWT Graduate School. The official results of the GRE must be received in the Office of the Graduate School before the end of the first long semester of your initial enrollment in Graduate School. If you begin during the summer, you must take the GRE the very next semester it is offered.

The Dean of the Graduate School may deny you permission to enroll if you have not taken the GRE prior to your desired second semester of enrollment. If your official GRE score is not on file, you will not be able to register. Additionally, some certification programs, such as counseling and guidance and school psychology, require that GRE scores be on file before admission can be granted to post-graduates.

If you have taken the GRE some years ago and your official GRE score is no longer able to be reported by the Educational Testing Service, you must retake the
GRE so that you can have a current valid score submitted. GRE score reports which bear the designation applicant's copy or institutional examinations are not considered official scores for admission purposes.

Information bulletins and test application forms may be obtained from the Educational Testing Service, P.O. Box 6000, Princeton, New Jersey 08541-6000, U.S.A.; from the University Testing Center at Southwest Texas State University; or from the Office of the Graduate School at SWT. The GRE is usually administered each year in February, April, June, October, and December at testing centers in the United States and abroad. SWT is an approved testing center. Applications must be received by the Educational Testing Service approximately five weeks in advance of each test; therefore, you should obtain the GRE Information Bulletin and application at least seven weeks in advance. A minimum of six weeks should be allowed for the examination results to reach the university.

Graduate Management Admission Test

All applicants for the Master of Business Administration degree program or Master of Accountancy are required to take the Graduate Management Admission Test. The official results of the GMAT must be on file in the Office of the Graduate School before your application for admission will be considered.

If you have taken the GMAT some years ago and your official GMAT score is no longer able to be reported by the Educational Testing Service, you must retake the GMAT so that you can have a current valid score submitted. GMAT score reports which bear the designation applicant's copy are not considered official scores for admission purposes.

Information bulletins and test application forms may be obtained from the Educational Testing Service, P.O. Box 6103, Princeton, New Jersey 08541-6103, U.S.A.; from the University Testing Center at Southwest Texas State University; or from the Office of the Graduate School at SWT. The GMAT is usually administered each year in January, March, June, and October.

Test of English as a Foreign Language

All international applicants must meet proficiency requirements in the English language and therefore are required to have the official results of the Test of English as a Foreign Language (TOEFL) sent before the application for admission will be considered. A minimum score of 550 is required for admission as a graduate degree-seeking student as well as for graduate non-degree-seeking students. Native speakers of English may receive an exemption from taking the TOEFL. The TOEFL requirement may be waived if you already possess a degree from an American university located in the United States. However, the TOEFL requirements vary among programs. The score must be mailed directly to the SWT Graduate School by the Educational Testing Service. Some applicants may be required to provide further evidence of proficiency in the English language depending upon program requirements.

Official TOEFL scores more than two years old are not released by the Educational Testing Service; therefore, if you have taken the TOEFL more than two years before the semester for which you are applying, you must retake the TOEFL so that you can have a current valid score submitted. TOEFL score reports which bear the designation applicant's copy or Institutional TOEFL scores are not considered official scores for admission purposes.

The TOEFL is administered at various centers in the United States and abroad at least six times each year. Application forms and information bulletins may be obtained from the Educational Testing Service, P.O. Box 6151, Princeton, New Jersey 08541-6151, or from the SWT University Testing Center.
Test of Spoken English

All international applicants to the Business Administration programs and the History programs are required to have the official results of the Test of Spoken English (TSE) sent to the SWT Graduate School before the application for admission will be considered. A minimum score of 220 is required for admission. The score must be mailed directly to the SWT Graduate School by the Educational Testing Service.

If you have taken the TSE some years ago and your official TSE score is no longer able to be reported by the Educational Testing Service, you must retake the TSE so that you can have a current valid score submitted. TSE score reports which bear the designation applicant’s copy are not considered official scores for admission purposes.

The TSE application forms and information bulletins may be obtained from the Educational Testing Service, P.O. Box 6151, Princeton, New Jersey 08541-6151.

Test of Written English

All international applicants to the Master of Public Administration program are required to have the official results of the Test of Written English (TWE) sent before the application for admission will be considered. A minimum score of 3 is required for admission. The TWE is not waived for students who complete degrees in the United States or who are from a country where English is the native language. The score must be mailed directly to the SWT Graduate School by the Educational Testing Service.

If you have taken the TWE some years ago and your official TWE score is no longer able to be reported by the Educational Testing Service, you must retake the TWE so that you can have a current valid score. TWE score reports which bear the designation applicant’s copy are not considered official scores for admission purposes.

The TWE application forms and information bulletins may be obtained from the Educational Testing Service, P.O. Box 6151, Princeton, New Jersey 08541-6151.

Admission/Evaluation Fee

If you hold or will be holding a non-immigrant visa while in the United States, if you are a non-U.S. citizen, or if your application is considered for admission on the basis of foreign credentials, you must submit a non-refundable admission/evaluation fee of $50.00 (U.S. currency) with the Application for Admission to the Graduate School. No application will be considered until the necessary fee is paid.

Tuition and Fees Deposit

International students who will attend SWT on an F-1 student visa must furnish proof of sufficient financial resources for educational and personal expenses. An advance tuition and fees deposit of $1,600 (U.S. currency) is required of students entering from outside the United States. The deposit will be used to cover a portion of the tuition and fees for your first semester at SWT. This deposit does not cover your books or living expenses.

The deposit is requested after you have met all admission requirements outlined above and have received Graduate School admission. Should you not enroll at SWT, the tuition and fees deposit is fully refundable. Applicants from within the United States may qualify for a waiver of the deposit. Contact the International Student Admissions Specialist in the SWT Office of Admissions for specific information.
F-1 Visa

SWT will not issue an I-20 Form until all of the financial and academic requirements for admission have been met and the Dean of the Graduate School has approved the graduate adviser’s recommendation for admission. An international student on an Immigrant Visa is not required to furnish proof of financial support or the tuition/fees deposit and is not issued an I-20 Form.

Admission document requirements vary from program to program be sure to check individual departments for additional document requirements.
Categories of Admission

A student is considered accepted to the SWT Graduate School only after the Office of the Graduate School has issued an official letter of acceptance to the student under one of the admission categories listed below. Also see “Admission Documents” section.

Degree-Seeking Applicants

Admission to the SWT Graduate School is granted by the Dean of the Graduate School at the recommendation of the graduate adviser or the department chair in the degree program which you wish to enter. The Dean of the Graduate School may refuse admission to any applicant regardless of whether or not you meet the admission requirements if the Dean of the Graduate School judges that such action is in the best interests of you or of the university.

Regular Admission. Regular degree-seeking admission, for most programs, may be granted if you:

1. Have a minimum grade-point average (GPA) of 2.75 on a 4.0 scale calculated on:
   a. the last 60 semester hours of undergraduate work before your bachelor's degree, or,
   b. the last 60 semester hours of undergraduate work before your bachelor's degree plus any graduate course work taken at an accredited college or university,

2. OR, have a GPA less than 2.75, but at least 2.50, (as calculated above and a Graduate Record Examination (GRE) General score of 900 or above, AND

3. Meet any special requirements imposed by the graduate program for which application is made.

OR, regular degree-seeking admission may be granted if you are seeking admission to the MBA or M.Acy. programs if you:

1. Have an Admission Index of 1,000 (or 950, if applicable), a Graduate Management Admission Test score of 400 (plus a Test of Spoken English score of 220 if you are an international student),

2. Meet any special requirements imposed by the MBA or M.Acy. graduate programs. See the detailed section in the departmental pages under the School of Business heading regarding calculation of the admission index.

Some graduate programs have higher GPA/GRE requirements and international students (non-U.S. citizens) have additional requirements. Please consult with your prospective department directly should you have any questions.

Courses with letter grades or numerical equivalents only will be used in calculating the grade-point average. Only work earned in resident credit is evaluated, and the resident credit must be earned at the school granting the degree(s). Regent’s external degrees will not be recognized as valid bachelor’s degrees for admission consideration to Southwest Texas State University Graduate School.

Conditional Admission. The graduate adviser in the degree program which you seek to enter may recommend to the Dean of the Graduate School that you be “conditionally” admitted even though you may or may not meet the minimum requirements for admission. This recommendation is based on evidence that you can successfully pursue graduate study and is governed by the stated admission policies in your proposed program. (There is no conditional admission to the Master of Business Administration program).

If you are conditionally admitted to a graduate degree program your graduate adviser with approval of the Dean of the Graduate School will impose certain requirements. Each semester your conditional status will be reviewed by the graduate adviser
or department chair. When you have completed the conditions of your admission, your graduate adviser or department Chair will recommend to the Dean of the Graduate School that you be unconditionally admitted to study for the degree or that you be denied admission to continue studies for the degree. If you have not satisfied your conditions of admission within the specified time limit, the Dean of the Graduate School may discontinue your enrollment.

**Graduating Seniors.** If you are a senior and have a superior academic record and lack 12 or fewer semester hours toward graduation you may apply to register during your final semester of undergraduate study for courses to be applied to your prospective master’s degree. The following requirements must be met:

1. Fulfill all admission requirements as stated under regular admission.
2. The graduate adviser in your proposed major program must submit a recommendation to the Dean of the Graduate School requesting you be admitted into the Graduate School.

As a graduating senior, you are eligible only for “regular” admission to a graduate degree-seeking program. You cannot be given “conditional” admission if you do not yet have a baccalaureate degree nor may you enroll in a post-graduate (certification) program.

**Non-Degree Seeking Applicants**

Applicants must hold an acceptable four-year baccalaureate degree from an acceptable accredited institution and must have fulfilled the residency requirement of their degree-granting institution. (Also see “Applicants Seeking Certification” section below).

**Special Student Admission.** If you wish to take courses but do not want graduate degree credit, you may enroll as a special student. Example: You wish to take courses solely for personal enrichment or to fulfill background requirements. To enroll as a special student, you must:

1. Submit an official Application for Admission to the Graduate School with the Office of the Graduate School;
2. Complete and sign a Special Student form which is available in the Office of the Graduate School. You will also need to obtain departmental concurrence when applicable.
3. No graduate business course may be taken as a “special student.”

These requirements should be taken care of well in advance of registration day.

International students wishing entry under the special student admission category must further fulfill immigration requirements as follows:

1. You must meet the Graduate School’s admission requirements for the special student category.
2. You must meet the English proficiency requirement.
3. You must be enrolled full-time in any long semester. While some Immigration requirements do not apply during the summer, if your initial enrollment is during the summer and you have gained entrance under an F-1 visa, then you must be enrolled full-time during the summer.
4. You must meet any general international student admission requirements, such as English proficiency, financial support verification, and the admission/evaluation fee, required by SWT for international students.

**NOTE:** Courses taken as a special student beginning fall, 1981, are not valid as credit toward a graduate degree program at SWT.

**Visiting Student Admission.** If you are currently pursuing a graduate degree at another institution, you may enroll in graduate courses at SWT with the permission of the Dean of the Graduate School and the graduate adviser. Courses taken at SWT under the Visiting Student status may not be counted toward a graduate degree at SWT should you later enter a degree program here. As a visiting student, you must:
1. Submit to the Office of the Graduate School an official Application for Admission to the Graduate School.
2. Submit a Letter of Good Standing from the graduate dean of the other institution giving you official permission to enroll and to transfer the course(s). The letter should specifically identify the course(s) by name and number and should state the semester(s) in which you will be taking the course(s).
3. An international student who wishes to enroll as a visiting student must submit a letter from their primary university adviser stating that you are maintaining your immigration status and that you have permission to enroll as a visiting student at SWT for the semester noted. This letter is to be submitted to the Admissions Specialist for International Students in the SWT Office of Admissions. You may also be expected to meet additional admission requirements, including the English proficiency requirement and the admission/evaluation fee.

Applicants Seeking Certification

If you are seeking certification only, such as the lawyer's assistant program (rather than seeking a graduate degree), and hold at least a baccalaureate degree, you may gain admission as a "Post-Graduate." Applicants must hold an acceptable four-year baccalaureate degree from an acceptable accredited institution and must have fulfilled the residency requirement of their degree-granting institution.

You must apply for entrance through the Graduate School whether you plan to take graduate level and/or undergraduate level courses. As a post-graduate student, you must:

1. Submit to the Office of the Graduate School an official Application for Admission to the Graduate School.
2. Submit a copy of your transcript which shows your highest college degree earned.
3. Fulfill any other departmental program admission requirements, such as GPA or entrance score requirements. The counseling and guidance and school psychology programs, for example, require an applicant to have a current Graduate Record Examination score submitted in advance. Please consult with your prospective program/department for specifics.

Educator's Certification:

Applicants may apply for admission to the university to pursue elementary, secondary, or all-level teacher certification, or one of several professional educator certificates.

Teacher Certification. If you are seeking initial or additional teacher certification and hold at least a baccalaureate degree, you must apply for admission through the Office of the Graduate School even though some of your certification courses will be at the undergraduate level. Admission to the university, however, does not include or imply admission to the teacher education program. You should adhere to the following procedure:

1. File an official Application for Admission with the Graduate School as a post-graduate or non-degree student.
2. Submit a copy of your transcript which shows your highest college degree earned.
3. Apply for the appropriate certification deficiency plan in the Office of Teacher Certification (located in the Education Building on campus). If you are seeking initial teacher certification, you must meet the same criteria as those imposed on undergraduate students. A fee is required for the preparation of a deficiency plan.

Professional Certification. Professional certificates are available in the following education areas: mid-management administrator, counselor, superintendent, reading
specialist, supervisor, visiting teacher, educational diagnostician, and associate school psychologist. Each of these certificates requires a master’s degree and teaching experience in elementary or secondary schools with the exception of the associate school psychologist certificate. Refer to department section of this catalog for specific information or contact the department.

If you are seeking a professional certificate, you must apply for admission through the Office of the Graduate School and adhere to the following procedure:
1. File an official Application for Admission to the Graduate School with the Office of the Graduate School.
2. Submit a copy of your transcript which shows your highest college degree earned.
3. Apply for the appropriate certification deficiency plan:
   a. Consult with the Chair of the Department of Educational Administration and Psychological Services if you are interested in any of the following certificate or related degree programs: mid-management administrator, counselor, superintendent, supervisor, visiting teacher, or associate school psychologist.
   b. Consult with the Chair of the Department of Curriculum and Instruction or the Certification Officer if you are interested in certification as an educational diagnostician or a reading specialist.
   c. Most professional certificates are earned as a result of completing a graduate degree program, very few deficiency plans are required for these certificates. If you hold a master’s degree and want to add a professional certificate, you should contact the appropriate department Chair.

Holders of Valid Out-of-State Certificates. If you hold a valid teacher certificate from another state, you need to contact the Division of Records at the Texas Education Agency, 1701 North Congress Avenue, Austin, Texas 78701 (telephone: 512-463-8976).

Changing From Non-Degree Status To Degree-Seeking Status

If you have been granted admission as a post-graduate student and you wish to apply for admission to a degree program, you will need to submit all documents and comply with instructions as identified earlier under the degree-seeking admission information. You must complete a Change of Status form request to the Office of the Graduate School to change your status. This must be done in ample time to meet the admission deadlines, usually at least six weeks in advance (see “Admission Policies, ‘Admission Deadlines’” section).

After you are regularly admitted to a graduate degree program, you may be permitted to utilize some of the courses taken under the postgraduate category toward your graduate degree. At the recommendation of your graduate adviser and with approval of the Dean of the Graduate School, six (6) semester hours of graduate work taken under the post-graduate status may be counted toward your graduate degree.

Applicants Seeking A Second Baccalaureate Degree

If you wish to seek a second baccalaureate degree (or an associate degree), you must contact the SWT Office of Admissions for an undergraduate application.

After you obtain a second baccalaureate degree and you wish to apply for admission to the SWT Graduate School, your grade-point average will be calculated on your last 60 undergraduate semester hours, including those on the second baccalaureate degree (except for applicants to the Master of Business Administration program). This is the only circumstance in which undergraduate credit hours, taken beyond the initial baccalaureate degree, are used in admission evaluation. Additionally, if you have any graduate or professional work, these hours may also be used in conjunction with your last 60 undergraduate semester hours to arrive at your admission GPA.
Applicants Seeking A Second Master’s Degree

If you wish to pursue a second or subsequent master’s degree, please contact the Office of the Graduate School for additional information. No courses applied toward one degree may be applied toward another degree at the graduate level.

Graduate Student Advisement

Professional academic counseling for students is handled through the student’s major department after the student has received formal acceptance through the Graduate School. This method of advisement ensures that students will receive sound academic counseling from faculty in their chosen field of study.

A degree plan will be developed for each student. Subsequent changes on the official degree outline must be requested through the student’s major department and approved by the Office of the Graduate School. Students receiving Veteran Administration educational assistance must provide the Office of Veteran Affairs at SWT with a copy of the master’s degree outline.
Registration and Course Credit

Registration

The Office of the Graduate School will notify you officially by mail regarding your admission. Since applications are for specific semesters, you should notify the Office of the Graduate School as soon as possible if you will not be enrolling in the semester for which you were accepted.

Registration schedules are published in advance of each semester. You may obtain information regarding registration each semester from the Office of the Graduate School or the Office of the Registrar.

Registration in the Graduate School beyond the first semester depends on satisfactory progress in fulfilling any admission conditions that may have been imposed and maintaining satisfactory academic progress.

Registration Termination. The Dean of the Graduate School may terminate the registration of any student who fails to comply with Graduate School and/or other appropriate university regulations.

Course Load and Overloads

Course Load. At the graduate level, the full-time course load during a long semester is 9 semester hours; the maximum load is 15 hours. The full-time course load during each summer session is 5 graduate-level hours; the maximum load is 6 hours. Note: Fewer hours may be certified as full time for the thesis course, except for financial aid recipients.

An international student on an F-1 visa must register as a full-time student each long semester (fall and spring semesters). As a graduate student, an international student must carry a minimum of 9 semester credit hours, as required by immigration regulations, to be considered full time. If you are enrolling as a Special Student, please reference the rules listed for international students under the "Categories of Admission 'Special Student Admission'" section.

The permissible load of employees of the university will be determined by the department or operating unit. Assistant instructors should refer to the "Grading and Academic Policies 'Academic Information for Assistant Instructors'" section for course load information.

Overloads. Course loads exceeding the maximum hour loads listed above require written approval. Only the Dean of the Graduate School may authorize an overload. To request an overload, you must submit a written request to the Dean of the Graduate School at least three days before registration for the Graduate Dean's review and approval. No overloads exceeding 15 semester hours total can be granted during the entire 10-12 week summer period.
Course Load Measurement

Graduate student course loads for graduate courses (except for students using VA benefits) are evaluated as follows:

### Fall and Spring Semesters & Twelve-Week Summer Session

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<thead>
<tr>
<th>Hours</th>
<th>Enrollment Status</th>
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<td>9</td>
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### Six-Week Summer Sessions

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### Off-Campus Eight-Week Terms: Fall, Spring, and Summer

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<td>Less than 3</td>
<td>Tuition and Fees</td>
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Course loads for graduate students using VA benefits are evaluated as follows:

### Fall and Spring Semesters

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### Twelve-Week Summer Session

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* Fewer hours may be certified as full time for thesis courses or other in absentia research when the credits earned do not reflect the pursuit required. This is not applicable to financial aid recipients.
Add and Drops/Schedule Changes

A “W” grade will be assigned automatically by the registrar if a student officially withdraws from the university or officially drops one or more classes during the first three weeks of the fall or spring semester (or the first week of a summer session). This period shall be designated as the automatic “W” period.

After the automatic “W” period, faculty assign grades to students who officially drops classes or withdraw from the university. Faculty assign the “W” grade only to those students who have a passing average at the time the drops/withdraw action is officially completed. Otherwise, faculty assign the “F” grade.

You must contact the Office of the Registrar regarding adding/dropping courses. Schedule change and withdrawal dates are published each semester in the official University Calendar.

Auditing a Course

Enrollment as an auditor requires you to first determine which admission category you plan to enter under, see “Categories of Admission” section, and receive your acceptance notice from the Office of the Graduate School. As an auditor, you must then obtain permission from the department offering the course; you will declare your audit status at registration. Auditors receive no course credit, but are expected to attend class regularly. All fees charged for an audit course will be the same as if the course were taken for credit, and the course will be entered on your transcript record as a no-credit audit course.

Continuing Education Study

Continuing education courses are non-credit hour classes and are not offered through the Graduate School. They do not apply toward a graduate degree program at SWT and are not considered for regular admission.

Correct Data

You are required to use your correct legal name and social security number on all university documents. The university assumes no responsibility when you use different names or social security numbers or a variation of names and numbers.

Your name will appear on your official records as it is stated on your application for admission. If you previously attended Southwest Texas State University under a different name, you may be asked to provide proof of your name change.

Correspondence Study

Correspondence course work can not be used toward a graduate degree at SWT.

Course Credit

You must be in attendance in class, fulfill the course requirements, and be evaluated by the course instructor in order to receive course credit for that class. The attendance requirement to receive class credit does not affect enrollment for thesis or independent study or credit awarded on the recommendation of the Work/Life-Experience Evaluation Board.

You must be enrolled in the course during the semester or summer session in which you receive credit for that class. You may not enroll in a class to:

1. Receive credit for course work performed in a preceding semester or summer session.
2. Receive credit for work performed at another college or university.
Repeating Courses

A student may repeat a course but cannot receive credit for the course more than once unless the course description in the catalog specifically provides that the course may be repeated for credit. When a course is repeated once, the last grade earned ("W" and "I" excluded) is the only grade included in computing the student's cumulative record of hours attempted and grade points earned. When a course is repeated more than once, the second grade and all subsequent grades are included in computing the student's cumulative record of hours attempted and grade-points earned. If the last grade in a repeated course is lower than an earlier grade, the last grade is used to determine whether the course fulfills university requirements.

Course Level

All courses required for the master's degrees offered at Southwest Texas State University should be at the 5000 level or above. At the request of your graduate adviser, in exceptional cases, with the prior written approval of the department chair and the Dean of the Graduate School, up to 9 semester hours of upper-division undergraduate level work (3000/4000) may be applied toward your degree requirements, provided that a grade of "B" or better is earned in the course work requested for graduate credit. Any undergraduate course work taken in this manner will be considered equal to the course work required for a graduate-level (5000+) course. Graduate students enrolled in undergraduate courses for graduate credit will be required to meet higher standards of performance, both quantitatively and qualitatively, than are required for undergraduates. At least one-half of the hours earned for a major, minor, or a cognate area must be numbered 5000 or above.

Degree Outline

You will need to declare a major (and a minor if a minor is required for your program of study) when you apply for admission. You also need to identify the type of degree, e.g., Master of Arts, Master of Education, etc., and if you wish to pursue a thesis or non-thesis plan of study. In the semester that you are admitted to graduate degree study, most departments expect you to confer with your graduate adviser and plan a degree program. This is an excellent opportunity to discuss your degree options. Graduate degree programs are prepared with the individual student in mind. It is therefore possible for the individual degree outlines to exceed the number of required degree hours identified in this catalog.

The Office of the Graduate School approves and finalizes your official degree outline. A copy of the official degree outline is made for you, and you will receive written notification from the Office of the Graduate School when the outline has been prepared. The outline should be used in determining which courses to enroll in each time you register. Any course taken prior to the signing of the official degree outline is taken at your own risk. Any change in the degree outline must be requested on the official Graduate School forms submitted by the departmental graduate adviser to the Office of the Graduate School for final approval.

Extension Courses

Extension classes are client-funded courses which are offered both on and off the SWT campus. All courses are from the regular SWT curriculum and are offered when necessary to meet public demand. Registration for an extension class is handled through the Office of Correspondence and Extension Studies and does not constitute acceptance as a regular student at SWT.

Degree Credit for Extension Course Work. Extension work which is credited toward a graduate degree must be approved by the department Chair and the Dean of
the Graduate School. You must meet the admission requirements as identified under the “Categories of Admission ‘Degree-Seeking Applicants’” section and be accepted in a degree program before extension work can receive degree credit.

A maximum of 12 semester hours of graduate credit may be earned in extension courses offered by Southwest Texas State University.

**Extension Transfer Credit.** Up to 3 semester hours of the total allowable 6 hours of transfer credit for a degree, may be earned through extension courses at another accredited institution. Students admitted on “Conditional Admission” or students on “Probation/Suspension” will not receive credit for transfer work taken under the aforementioned status.

**Post-Graduate Credit**

Up to 6 hours of graduate-level courses taken as a post-graduate may be petitioned for degree credit after a student is granted regular degree-seeking admission. (No 6000-level Political Science courses may be used for graduate degree credit).

**Transfer Credit**

A maximum of 6 semester hours of credit earned at another institution may be accepted in transfer and applied toward the master’s degree provided:

1. **The credit was earned in graduate courses completed in residence at the accredited institution.**
2. **The courses are appropriate to your degree program at SWT.**
3. **Courses have not been, and will not be, used for credit on another degree.**
4. **If the credits were earned prior to your admission to the SWT Graduate School, the credits were earned while you were enrolled under a graduate degree program at that institution. You are to provide the SWT Graduate School with written verification of your status at that university. Additionally, you must have your departmental graduate adviser submit a written request to the Dean of the Graduate School asking for acceptance of the transfer work as part of your SWT degree.**
5. **OR, if the credits are to be earned after your admission to the SWT Graduate School, prior written approval of the enrollment has been given by the SWT Dean of the Graduate School who will then send a letter of good standing to the other institution before your enrollment in the course(s) to be transferred.**

See “Registration and Course Credit ‘Letter of Good Standing’” section for additional letter of good standing information.

Transfer work will be accepted only if it bears a letter grade of “B” or higher, or a numerical equivalent. A grade of “Credit”, “Pass”, “Satisfactory”, etc., is unacceptable. Transfer work will not be accepted for graduate degree credit from another institution if such courses are designated as non-degree, background, preparatory, etc. No credit will be awarded until an official transcript showing the course work to be transferred is on file in the Office of the Graduate School. You may also be requested to provide a catalog from your school which gives course descriptions for any transfer work requested. Students admitted on “Conditional Admission” or students on “Probation/Suspension” will not receive credit for transfer work taken under the aforementioned status.

**Undergraduate-Level Background Course Work.** Undergraduate courses taken to absolve background requirements will be accepted on transfer only if such courses are of the same level as those specified on the official degree outline.

**Letter of Good Standing.** You must initiate a request for a letter of good standing well in advance of the time of your anticipated enrollment if you plan to take courses at another university for utilization as part of your graduate program at Southwest Texas State University. Transfer credit can not be permitted unless a letter of good standing has been issued prior to your enrollment in the course(s) to be transferred.
If you are currently working toward a master's degree at SWT and wish to take a
course at another accredited university to apply toward your degree at SWT, you will
need to:

1. Receive permission from your departmental graduate adviser to take a
course elsewhere.
2. Have your graduate adviser submit a written request to the Dean of the
Graduate School so that the Dean can issue an official letter of good stand­
ing. The request from the adviser should identify the course(s) by name and
number and should state what semester(s) and where you will be taking the
work. If the Dean of the Graduate School approves the request, a letter of
good standing is sent by the Dean of the Graduate School to the university
where you will be enrolling.
3. Have an official transcript of your work forwarded to the SWT Office of the
Graduate School as soon as you complete the course work.

Withdrawal

Withdrawal from the university is an official action whereby a student informs
the University Registrar, who in turn informs the instructor(s) of record, that the stu­
dent will cease attending all classes in which enrolled.

The student must contact the Office of the University Registrar in person to offi­
cially withdraw from the university. In certain cases, however, the Registrar may ac­
cept withdrawal by letter or telephone. Students living in university residence halls
must also contact the Residence Life Office in person to withdraw.

Dropping a Class

Dropping a class is an official action whereby a student informs the department
Chair in which the course is taught and the cashier's office that the student will cease
attending a class yet remain enrolled in at least one other course.

Deadlines. The deadline for dropping classes or withdrawing from the university
is two weeks preceding the beginning of final examinations during the fall and spring
semesters (one week preceding final examinations during the summer sessions).

When a student drops one or more classes or withdraws from the university, either a
"W" or an "F" grade will be assigned for each course as follows:

1. A "W" grade will be assigned automatically by the University Registrar if a
student officially withdraws from the university or officially drops one or
more classes during the first three weeks of the fall or spring semester (or the
first week of a summer session). This period shall be designated as the auto­
matic "W" period.
2. After the automatic "W" period, faculty assign grades to students who offi­
cially drop classes or withdraw from the university. Faculty assign a "W"
grade only to those students who have a passing average at the time the
drop/withdraw action is officially completed. Otherwise, faculty assign an
"F" grade.

Work/Life-Experience Credit

Students may petition to receive up to 9 semester hours credit for work/life-expe­
rience after admission to the Graduate School as degree- seeking students in the inter­
disciplinary studies program. An evaluation board evaluates the proper
documentation on an individual basis and final approval is awarded by the Dean of
the Graduate School.
Grading and Academic Policies

Academic Information for Assistant Instructors (AI’s)

A prospective assistant instructor should be admitted as a degree-seeking student in the SWT graduate school.

Teaching Load. The usual semester hour teaching load during the long semester (fall or spring) is 6 semester hours or two classes. The usual semester hour teaching load during a six-week or eight-week summer session is one course (up to a maximum of 4 hours). A twelve-week summer session carries a normal teaching load of 6 hours. Any exceptions to these teaching loads must be approved by the Dean of the Graduate School and the Vice President for Academic Affairs.

Course Load. The AI will discover that there is little flexibility in regard to the amount of course work in which he or she may enroll. The minimum course load required for a long semester is 6 semester hours. AI’s taking more than 9 semester hours of course work must have approval from the Dean of the Graduate School and from the Vice President for Academic Affairs. During the summer session, a minimum of 3 semester hours of course work is required. An AI taking more than 6 semester hours per summer session must have approval from the Dean of the Graduate School and from the Vice President for Academic Affairs.

Academic Expectations. AI’s are expected to maintain a minimum 3.0 grade-point average with no grade below “C”.

These policies are designed to protect the AI from bearing an unfair teaching load and course load while completing graduate study at SWT.

Change of Grade

An individual course grade may be changed when the involved faculty member certifies to the University Registrar that an error was made in computing the original grade. The grade change must be approved by the department chair and the appropriate school dean or the Dean of the Graduate School. Students who wish to protest a grade should first discuss the grade with the instructor. If no resolution is reached, the student may appeal the grade to the department chair. If no satisfactory conclusion can be reached at this level, the student may appeal to the dean. The dean’s decision is final.

Class Attendance

It is the policy of the university to encourage regular, punctual attendance at all classes. The university recognizes that the absolute necessity of regular attendance varies from department to department, from course to course, and from student to student. The university has no mandatory class attendance requirements except:

1. Each faculty member will inform students of the course attendance policy at the initial class meeting.
2. Students are responsible for understanding the attendance policy for each course in which they enroll and for meeting the attendance requirements.

Course Numbers

Southwest Texas State University follows a four-digit numbering system. The first digit indicates the level of the course: 1—freshman, 2—sophomore, 3—junior, 4—senior, 5 and 6—graduate and post-graduate. Courses numbered 5000 and above are open to graduate students. The second digit of the course number indicates the semester credit hours the course carries. For example, a course numbered 5300 would carry 3 semester hours of graduate-level credit. The last two digits usually indicate the
location of the course in the department's curriculum. A letter (A, B, C, etc.) attached to a course number indicates an area of concentration within the course. Numbers in parentheses following a course title indicate the clock hours per week spent in lecture and laboratory, respectively.

Course Symbols

Grades are indicated by the following symbols: "A", excellent; "B", good; "C", average; "D", passing; "F", failure or withdrawn failing; "I", incomplete; and "W", withdrawn passing. A grade of "PR", which is temporary and non-punitive, may be assigned in selected courses where the required clock hours needed to complete requirements extend beyond the regular semester or summer session. A grade of "CR" is assessed when credit only is given for a course, as in the case of the thesis course after completion of the thesis. While no longer assigned, the grade of "X" on a transcript was used if a student left a class or the university under extremely unusual circumstances and failed, through no fault of the student, to officially withdraw.

Incomplete Grade. If any course work is incomplete during any semester, the work must be completed by an indicated deadline arranged between the student and the course instructor. The "I" grade is assessed for one reason only: Student failure to complete a vital portion of a course (final examination, paper, etc.) because of a situation beyond the student's control. An "I" grade from SWT will not count as hours attempted until another grade is substituted for the "I". If the "I" grade has not been removed in twelve month's time, the grade will automatically change to "IF".

Withdrawal Grade. A "W" grade is assigned only if a student drops a course by the announced deadline, which is usually one week after the mid-term in a long semester and three days after the mid-term in a summer session. Also see "Registration and Course Credit 'Withdrawal'" section.

Dead Week (End of Semester Policy)

During the last five class days of each long semester, written examinations (except to cover daily assignments) and essays or assignments beyond normal daily work are not to be scheduled without the approval of the appropriate school dean. Classes meet during dead week, and students are expected to be in attendance.

Grade-Point Average (Four-Point System)

The grade-point average (GPA) is the number of grade points earned divided by the number of semester hours attempted. Semester grade symbols have the following values:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
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<tr>
<td>B</td>
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<tr>
<td>C</td>
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<td>D</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
</tr>
<tr>
<td>IF</td>
<td>0</td>
</tr>
</tbody>
</table>

Neither hours nor grades are calculated for "I", "CR", "PR", or "W".

Probation and Suspension

If you are a graduate or post-graduate student as defined in this catalog, you are required to maintain a 3.0 cumulative grade-point average for all SWT 4000-, 5000-, and 6000-level courses (excluding required background courses) listed on your Degree Outline for a Master's degree. Cumulative GPA's are computed at the end of the fall semester, the spring semester, and the second summer session (both summer sessions combined are treated as equivalent to one semester in determining satisfactory academic progress).

If your cumulative GPA falls below 3.0 during any semester of enrollment at SWT, you will be placed on academic probation. If you have just been placed on probation, in your next semester of enrollment you must raise your cumulative graduate
school GPA to 3.0 or be suspended from the Graduate School. When you have achieved a cumulative GPA of at least 3.0 at the end of your semester of probation, you will be notified that you have been removed from probation status.

**Readmission.** After being on suspension status for six months, you may petition your graduate adviser and the Dean of the Graduate School for permission to reenroll in the Graduate School. Each readmission decision is made on an individual basis. If you are readmitted after you have been suspended, you must maintain a 3.0 GPA in each semester of enrollment or be suspended again. Individual graduate programs may also impose additional cumulative GPA restrictions for their students.

**Change of Major.** Graduate students on probation may not change programs. If a suspended student wants to be readmitted (after the six months of the first suspension has lapsed) but to a different program, that student must reapply to the Graduate School with the application subject to the approval of the Dean of the Graduate School.

**Financial Aid.** If you are receiving financial aid, you must also meet the satisfactory academic progress requirements for financial aid. See the “Financial Assistance” section for further details.

**Residence Requirement**

In general, 24 semester hours of graduate work must be completed in residence at Southwest Texas State University if you are working on your master’s degree. At least 1/3 of the semester hours required for a degree must be completed in course work on the San Marcos campus of Southwest Texas State University.
Degree Information

Application for the Degree

You must indicate your intent to graduate during registration for your final semester (Summer Session I for August graduation). The intent to graduate should be indicated during telephone registration, and you must pay a diploma fee in addition to your usual registration fees. You must complete the degree application forms in the Office of the Graduate School within the period announced in the University Calendar. Additionally, if you plan to graduate in absentia, you must pay an in absentia fee to cover special handling of your diploma. See the “Fees and Expenses ‘Certificate and Diploma Fees’” section for the specific charges.

Letter of Completion. Failure to follow the correct steps in applying for your diploma or failure to apply for graduation before the announced deadline may require the issuance of a statement of completion. You would then graduate and receive your diploma the following semester. You must submit a written request to the Dean of the Graduate School for issuance of a letter of completion.

Reapplication for the Degree. If you fail to complete the degree requirements in time for your planned graduation, you must reapply for the next (or later) graduation by following the same procedure identified above and pay an “insert fee” for changing the diploma insert. Reapplication for the degree must be filed in the Office of the Graduate School within the period announced in the University Calendar for degree application.

Background Course Requirements

Generally, a background of at least 24 semester hours, including 12 advanced hours, is required for the graduate major. Eighteen hours, including 6 advanced, are usually required for the graduate minor. Exceptions in background requirements may vary in split minors and in requirements for minors in elementary education. You should refer to the appropriate departmental pages in this catalog for specific information or contact the graduate adviser for your program of study.

Course work identified on your official master’s degree outline as background is not used in the computation of your graduating GPA. See the “Grade-Point Requirements for Graduation” section. Any course work required for background is not awarded graduate degree credit.

Comprehensive Examination

All candidates for the master’s degree must pass a comprehensive examination, either written, oral, or both, covering at least the field of concentration and the thesis if a thesis is written. This examination may not be taken until you have completed at least 18 semester hours of graduate degree credit and may not be taken before the final term or semester if you have a grade deficiency.

Arrangements for the examination may be made with your graduate adviser or the department Chair. The results of the comprehensive examination must be filed in the Office of the Graduate School at least ten days before the commencement at which the degree is to be conferred. The department is responsible for submitting these reports to the Office of the Graduate School.
Grade-Point Requirements for Graduation

To be eligible for graduation, you must have a GPA of 3.0 or those imposed by your major or minor as listed on your degree outline. Higher minimum requirements may also be required by some degree programs. Effective fall, 1991, no grade earned below “C” on any graduate course may apply toward a graduate degree at SWT.

Background Work. Background work is not computed in the graduation GPA requirement, nor is graduate-degree credit granted for background work for the degree on which you are working.

Incomplete Grades. Incomplete grades must be cleared through the Office of the Graduate School at least ten days before the commencement at which the degree is to be conferred.

Hour Requirements

The minimum number of graduate-level semester credit hours required for the master's degree is 30; the maximum is 66. If you are obtaining certification also, you may be required to complete additional hours.

Recommendation for the Degree

Candidates are certified for graduation by the Dean of the Graduate School after the completion of all requirements for the appropriate master’s degree and with the approval of the departments concerned. Degrees are conferred publicly at the close of the fall semester, the spring semester, and the second summer session.

Time Limit

A program leading to the master’s degree must be completed within six years from the date of your initial enrollment in graduate courses used toward your degree. No credit will be applied toward your master’s degree for course work completed more than six years before the date on which your degree is to be conferred. This time limit applies toward credit earned at SWT as well as credit transferred to SWT from other accredited institutions. An extension of time may be given to students who enter military service. Requests for a time extension must be submitted to your graduate adviser who in turn submits a recommendation to the Dean of the Graduate School.

Catalog. You will graduate under the catalog that is current during the semester of your graduation. To graduate under the catalog in effect when you began your SWT graduate program, you must make a request to your graduate adviser to submit a written request to the Dean of the Graduate School.

Thesis Requirements

If you elect to follow the thesis option for your degree, a committee to direct the written thesis will be assigned by your department Chair in conference with you. The thesis must demonstrate your capability for research and independent thought. Preparation of your thesis must be in conformity with Kate L. Turabian's, A Manual for Writers, or in conformity with the specific guidelines in your major department.

Thesis Proposal. You must submit an official “proposed research” form in triplicate to your thesis committee. Copies of the thesis proposal form may be obtained from the Office of the Graduate School. After obtaining your committee member’s signature and your department chair’s signature, you must submit three copies to the Dean of the Graduate School for approval before you proceed with research on your thesis.

Thesis Committee. The thesis committee must be comprised of three regular graduate faculty members.
Thesis Enrollment and Credit. Enrollment for the thesis will be recorded as course number 5399A for your initial thesis enrollment and 5399B for your subsequent thesis enrollments in the field in which the subject matter of the thesis falls, e.g., Biology 5399A, English 5399A, English 5399B, etc. If you do not complete the thesis in a summer session or in a regular semester in which you are enrolled for thesis, then you will receive a grade of "PR", (in progress). No other letter grades are assigned for the thesis.

You enroll for 3 hours of thesis in any semester or summer session according to your progress on the thesis (initial or continuing). After your initial enrollment in 5399A, you will continue to enroll in 5399B as long as it takes for you to complete your thesis. If you have not previously enrolled in thesis and you plan to work on and complete the thesis in one semester, which does not happen often, you will enroll in both 5399A and 5399B during that semester. A maximum total of 6 semester hours credit will be awarded only after the thesis is filed in the SWT Alkek Library and the binding fee is paid. You will receive a grade of "CR" after the thesis has been filed for your final 5399A enrollment and final 5399B enrollment. You will be required to enroll in and pay the fee for at least 3 hours of the thesis course during any semester or term during which you desire thesis supervision or guidance. Preliminary discussions regarding the selection of a topic and assignment to a supervisor will not require enrollment for the thesis course. Failure to register for the thesis course during a semester in which supervision is received may result in postponement of graduation.

All candidates for graduate degrees who have selected the thesis option must be registered for the thesis course during the semester or summer session in which thesis supervision is received and the degrees are conferred. The only exception to this rule will be when copies of the thesis are delivered for binding prior to the day of graduation, but too late for the candidate's participation in graduation ceremonies, and all other graduation requirements have been met. In this case, and this case only, the candidate need not enroll in thesis the succeeding semester.

Thesis Deadline & Approval Process. The completed thesis must be submitted to the Chair of the thesis committee not later than 36 days before the date of the commencement at which the degree is to be conferred.

One (1) copy of the thesis in final form and two (2) signature pages bearing original signatures of the committee members must be submitted to the Graduate School Office not later than 18 days before the date of commencement at which the degree will be conferred. After the Graduate Dean approves the thesis the process is as follows:

1. Pick up the thesis, signature pages, and a thesis card from the Graduate School Office.
2. Take two (2) copies of the thesis, two (2) signatures pages, and the thesis card to the circulation desk in the Alkek Library. Pay the binding fee and have the thesis card stamped.
3. Return the thesis card to the Graduate School office not later than noon on the Monday preceding graduation.

Failure to comply with this regulation will delay graduation until the following semester or whenever you complete the thesis requirements.

REMEMBER, IT IS YOUR RESPONSIBILITY TO ENSURE THAT ALL GRADUATION REQUIREMENTS HAVE BEEN MET.
### Graduate Degrees Offered at SWT

<table>
<thead>
<tr>
<th>MAJOR</th>
<th>DEGREES</th>
<th>THESIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Education</td>
<td>Master of Education (M.Ed.)</td>
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</tr>
<tr>
<td>Biology</td>
<td>Master of Arts (M.A.)</td>
<td>Required</td>
</tr>
<tr>
<td>Biology</td>
<td>Master of Science (M.S.)</td>
<td>Optional</td>
</tr>
<tr>
<td>Biology</td>
<td>Master of Education (M.Ed.)</td>
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</tr>
<tr>
<td>Business Administration</td>
<td>Master of Accountancy (M.Acy.)</td>
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</tr>
<tr>
<td></td>
<td>Master of Business (M.B.A.)</td>
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<td>Chemistry</td>
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</tr>
<tr>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Communication Disorders</td>
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</tr>
<tr>
<td></td>
<td>Master of Science in Communication Disorders (M.S.C.D.I.S.)</td>
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<tr>
<td>Computer Science</td>
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<tr>
<td>Computer Science</td>
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</tr>
<tr>
<td>Computer Science</td>
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</tr>
<tr>
<td>Counseling &amp; Guidance</td>
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<td>Counseling &amp; Guidance</td>
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<tr>
<td>Criminal Justice</td>
<td>Master of Fine Arts (M.F.A.)</td>
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<td>Elementary Education</td>
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<tr>
<td>French</td>
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<tr>
<td>Geography</td>
<td>Master of Applied Geography</td>
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<tr>
<td>German</td>
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<tr>
<td>Health and Physical Education</td>
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<td>Health Education</td>
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<td>Health Professions—Allied Health Education</td>
<td>Master of Science in Health Professions (M.S.H.P.)</td>
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<tr>
<td>Health Professions—Allied Health Research</td>
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<td>MAJOR</td>
<td>DEGREES</td>
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<td>Health Professions—Health Care Administration</td>
<td>Master of Science in Health Professions (M.S.H.P.)</td>
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</tr>
<tr>
<td>History</td>
<td>Master of Arts (M.A.)</td>
<td>Required</td>
</tr>
<tr>
<td>History</td>
<td>Master of Education (M.Ed.)</td>
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<tr>
<td>Industrial Arts</td>
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<td>Industrial Arts</td>
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<td>Interdisciplinary Studies</td>
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<tr>
<td>Interdisciplinary Studies</td>
<td>Master of Science in Interdisciplinary Studies (M.S.I.S.)</td>
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<tr>
<td>Management of Vocational/Technical Education</td>
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<td>Mathematics</td>
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<td>Mathematics</td>
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<td>Music—Music Education</td>
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<td>Music—Performance</td>
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<td>Physical Education</td>
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<td>Physics</td>
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<td>Secondary Education</td>
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<td>Theatre Arts</td>
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</table>
Fees and Expenses

Deposits and Registration Fees

The university reserves the right to change fees in keeping with the acts of the Texas Legislature and the Board of Regents, Texas State University System. The payment of fees entitles you to admission to classes; admission to auditorium and athletic attractions; subscription to The University Star; use of the Student Center facilities, health services, Sewell Park facilities, and group use of the Wimberley Camp. These fees also help provide funds for the Associated Students, band, choir, dramatics, debate, and other student activities.

Please consult the official fee charts listed below for exact costs in all categories. All fees herewith are subject to change.

General Property Deposit

You are required to make a general property deposit of $10.00, payable at the time of registration, which must remain with the university through your career as an SWT student except as noted below. All charges for property losses, damages, breakages, or violations of rules of the university must be settled promptly. However, any unpaid current charges will be deducted from the deposit before a refund is made.

Registration Fees, 1993-1994

Residents of Texas

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<thead>
<tr>
<th>Hours</th>
<th>Tuition</th>
<th>Student Service Fee</th>
<th>General Fee</th>
<th>Student Center Fee</th>
<th>Bus Fee</th>
<th>Computer Service Fee</th>
<th>Student Publication Fee</th>
<th>Rec Sports Fee</th>
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Add $26 for tuition, $12 for general fee, and $3 for computer service fee for each hour over 20. All other fees remain the same.

Fee for Fall 1993 is $12 & for Spring 1994 is $35.
### Residents of Texas
#### Summer Term, 1994 (per session)

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¹ Add $26 for tuition, $12 for general fee, and $3 for computer service fee for each hour over 7. All other fees remain the same.

### Non-Residents of Texas
#### Fall and Spring Semesters of the Long Term 1993-94 (per semester)

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¹ Add $26 for tuition, $12 for general fee, and $3 for computer service fee for each hour over 7. All other fees remain the same.

² Add $162 for tuition, $12 for general fee, and $3 for computer service fee for each hour over 20. All other fees remain the same.

³ Fee for Fall 1993 is $12 & for Spring 1994 is $35.
Non-Residents of Texas
Summer Term, 1994 (per session)

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Registration Fees, 1994-95

The required registration fees for the school year 1994-95 will be available at a later date in the official SWT Schedule of Classes and in the 1994-95 Graduate Catalog Supplement when published.

Fees for Special Courses — 1993-94
(in addition to registration fees)

- Accounting, 3313, 3365, 3385, 4313, 4314: $8.00 per semester
- Administrative Science, 1323, 1325, 3353, 3366: $8.00 per semester
- Agriculture 1445, 3329: $12.00 per semester
- Agriculture 2313: $5.00 per semester
- Agriculture 2345, 2374, 3304, 3310, 3320, 3331, 3353, 3354, 3426, 4302: $18.00 per semester
- Agriculture 2373: $10.00 per semester
- Agriculture 2379: $14.00 per semester
- Agriculture 2390: $22.00 per semester
- Agriculture 2421: $34.00 per semester
- Agriculture 3305, 3306: $17.00 per semester
- Agriculture 3317: $2.00 per semester
- Agriculture 3345: $30.00 per semester
- Agriculture 3375, 4361, 4325: $15.00 per semester
- Agriculture 3427: $6.00 per semester
- Agriculture 4300: $24.00 per semester
- Agriculture 4310: $20.00 per semester
- Agriculture 4315: $35.00 per semester
- Agriculture 4326, 4330: $13.00 per semester
- Agriculture Service Development 4681: $40.00 per semester
- Allied Health Sciences 3302, 3351: $20.00 per semester
- Allied Health Sciences 5332: $15.00 per semester
- Anthropology 2414, 2415: $8.00 per semester
- Anthropology 3305: $4.00 per semester
- Anthropology 4630: $10.00 per semester
- Art 1314, 1321, 2321, 2331, 2370, 3321, 3323, 4321, 4323, 4370: $30.00 per semester
- Art 2359, 2366, 3311, 3322, 3327, 3337, 3359, 3365, 4310, 4311, 4322, 4327, 4337, 4363, 4365: $35.00 per semester
- Art 1354, 1373, 2313, 2354, 2383, 4373, 4383, 4393: $25.00 per semester
- Art 2310, 3310: $40.00 per semester

2 Add $162 for tuition, $12 for general fee, and $3 for computer service fee for each hour over 7. All other fees remain the same.
Art 3313 .......................................................... 10.00 per semester
Art 4317, 4617 ................................................... 20.00 per semester
Biology 1310, 3351, 4301, 5301 ...................... 6.00 per semester
Biology 1410, 1420, 2340, 2350, 2430, 2440, 2460,
3400, 3406, 3407, 3410, 3421, 3422, 3440,
3442, 3450, 3460, 3461, 3465, 3470, 3480,
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5390, 5399A-B, 5401, 5410, 5411, 5412,
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5424M, 5425, 5426, 5430, 5440, 5441, 5442,
5445, 5450, 5454, 5465, 5470, 5480, 5485 .......... 18.00 per semester
Biology 4475, 5460, 5463 .................................. 20.00 per semester
Biology 5110, 5350F, 5362 ............................. 15.00 per semester
Biology 5295 .................................................. 10.00 per semester
Business Administration 5309, 5316, 5354, 5387 ...... 8.00 per semester
Chemistry 1410, 1420, 1430, 2130, 2410, 2420,
2450, 3245, 3410, 4275, 4299, 4336, 4337,
4430, 4440, 4465, 5275, 5336, 5337, 5399 .......... 18.00 per semester
Communication 1310 ...................................... 12.00 per semester
Communication 2338 ...................................... 8.00 per semester
Communication Disorders 4321, 4344, 5344 ...... 15.00 per semester
Computer Information Systems 1323, 3370, 4346, 4373D ...... 8.00 per semester
Computer Science 1308, 2488, 3428 .................. 18.00 per semester
Computer Science 1318, 2308, 3348, 3358, 3388,
3398, 4318, 4326, 4346, 4348, 4358, 4364,
4368, 4378, 4388, 4398, 5308, 5326,
5328, 5346, 5364, 5368, 5388, 5398 ............. 9.00 per semester
Computer Science 2318, 5340, 5374, 5391 .......... 4.00 per semester
Computer Science 3378 .................................. 3.00 per semester
Computer Science 3408 .................................. 27.00 per semester
Computer Science 4310, 4322, 5306, 5310, 5332,
5347, 5349, 5350, 5351, 5352, 5370, 5371,
5372, 5373, 5392, 5393, 5394 .................. 6.00 per semester
Computer Science 3468 .................................. 24.00 per semester
Computer Science 4328 .................................. 12.00 per semester
Computer Science 5318, 5348 .......................... 8.00 per semester
Criminal Justice 2330 ..................................... 20.00 per semester
Criminal Justice 3346 ..................................... 24.00 per semester
Criminal Justice 4301, 4302 ............................ 30.00 per semester
Curriculum and Instruction 3315, 3325 .............. 5.00 per semester
Curriculum and Instruction 3322, 4332 .......... 18.00 per semester
Curriculum and Instruction 5318 ...................... 9.00 per semester
Curriculum and Instruction 5320 ...................... 15.00 per semester
Dance 2208, 2209, 3367 .............................. 2.00 per semester
Education 4380, 4381, 4382, 4383, 4384, 4387 ...... 35.00 per semester
Education 4680, 4681 ..................................... 70.00 per semester
Educational Administration 5389B, 5389H, 5389X,
5389Z, 6389 ..................................................... 50.00 per semester
Educational Psychology 5305, 5355, 5376, 5377, 5379 ........ 24.00 per semester
### FEES AND EXPENSES

**Educational Psychology 5389A, 5389C, 5389W, 5389Y**
- 6300A, 6300B ................................................................. 75.00 per semester

**English 1300, 1310 ...........................................................**
- 10.00 per semester

**English 2351 .................................................................**
- 15.00 per semester

**Finance 3312, 3318, 4317, 4380A, 4380B, 4380D ...............**
- 8.00 per semester

**French 1410, 1420, 2310, 2320 .........................................**
- 13.00 per semester

**General Science 3310, 3320 .................................................**
- 15.00 per semester

**Geography 2411, 3411 ........................................................**
- 10.00 per semester

**Geography 3415, 5408 ........................................................**
- 15.00 per semester

**Geography 3416, 4411, 4412, 4422, 4426, 4430, 5417, 5418**
- 12.00 per semester

**Geology 1410, 1420, 2410, 3310, 4320, 5310 .......................**
- 18.00 per semester

**German 1410, 1420, 2310, 2320 .........................................**
- 13.00 per semester

**Health Administration 4440, 4441 .......................................**
- 11.00 per semester

**Health Administration 5440 ................................................**
- 16.00 per semester

**Health Education 2354 .....................................................**
- 6.00 per semester

**Health Education 4660 .....................................................**
- 25.00 per semester

**Health Education 3321 ........................................................**
- 2.00 per semester

**Health Research 5111 ..........................................................**
- 10.00 per semester

**Health Research 5211, 5239, 5263, 5269, 5331, 5341, 5343, 5351, 5365, 5381, 5399**
- 15.00 per semester

**Home Economics 1321, 1322, 3323, 3333, 3360, 3361, 3390, 4323, 4324**
- 10.00 per semester

**Home Economics 1360, 2360 ................................................**
- 12.00 per semester

**Home Economics 3351, 3391, 4330, 4339, 4390 .....................**
- 8.00 per semester

**Home Economics 3393 .......................................................**
- 15.00 per semester

**Home Economics 4301 .......................................................**
- 20.00 per semester

**Home Economics 4681 .......................................................**
- 75.00 per semester

**Japanese 1410, 1420, 2310, 2320 .......................................**
- 13.00 per semester

**Journalism 1301, 1313, 3308, 3324, 3368, 3373, 3379, 3386, 3394, 4307, 4313**
- 20.00 per semester

**Journalism 2319, 2374, 3320, 3383, 4301, 4302, 4305 .............**
- 15.00 per semester

**Journalism 3309, 3310, 3312, 3390 .......................................**
- 50.00 per semester

**Journalism 3323, 3355, 3360, 3375, 4311, 4336A, 4336B, 4336C, 4356A, 5356B, 4356C, 4356D, 4376A, 4676B, 4676C, 4380, 4381**
- 12.00 per semester

**Journalism 3343, 3350, 3367, 3372, 4316A, 4316B, 4316C, 4316D, 4320**
- 18.00 per semester

**Journalism 4111 ...............................................................**
- 8.00 per semester

**Journalism 4211 ...............................................................**
- 10.00 per semester

**Journalism 4330 ...............................................................**
- 30.00 per semester

**Long Term Care Administration 4321 ..................................**
- 25.00 per semester

**Management 4330 .............................................................**
- 8.00 per semester

**Mathematics 1300, 1311, 2301, 2311 ..................................**
- 10.00 per semester

**Mathematics 3348, 4338 ......................................................**
- 6.00 per semester

**Mathematics 3428 .............................................................**
- 15.00 per semester

**Medical Record Administration 3363, 3464 ..........................**
- 15.00 per semester

**Medical Records Administration 4345 ................................**
- 10.00 per semester

**Medical Technology 2414, 4222, 4326 ................................**
- 8.00 per semester

**Medical Technology 3410 ...................................................**
- 16.00 per semester

**Medical Technology 3412 ...................................................**
- 12.00 per semester

**Medical Technology 4345, 4463, 4464 ................................**
- 10.00 per semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Fees per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Technology 4223, 4327, 4380, 4418, 4424, 4460, 4470</td>
<td></td>
<td>20.00</td>
</tr>
<tr>
<td>Medical Technology 4650</td>
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<tr>
<td>Military Science 1000</td>
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<td>15.00</td>
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<tr>
<td>Music 1210, 1212, 1311, 1312, 2260, 2262</td>
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<td>Music 1180, 2180, 2381, 2382, 3180, 3313, 3383, 3384, 4151, 4180, 4385</td>
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<td>Music 4680</td>
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<td>Music Ensemble 1111C, 2111C, 3111C, 4111C, 5121C</td>
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<td>Music Performance 1108W, 1110W, 1112W, 1114W</td>
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<td>Occupational Education 4340</td>
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<td>Physical Education 1170A</td>
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<tr>
<td>Physical Education 1171A, 1172A, 1175A, 1177A, 1178A, 1192A, 2356, 3321, 3322, 3325, 3327</td>
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<tr>
<td>Physical Education 2156</td>
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</tr>
<tr>
<td>Physical Education 3317</td>
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<td>Physical Education 4317</td>
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<td>Physical Education 5303</td>
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<td>Physical Education 5306</td>
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<td>12.00</td>
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<td>Physical Education Service 1101, 1102D, 1144A, 1144B, 1144C, 1220</td>
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<td>Physical Education Service 1103A, 1103B, 1133A, 1133B, 1133C</td>
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<tr>
<td>Physical Education Service 1120A, 1120B, 1127, 1129</td>
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<td>6.00</td>
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<tr>
<td>Physical Therapy 3312, 3313, 3315, 3318, 3412, 4120, 4316, 4317</td>
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<td>10.00</td>
</tr>
<tr>
<td>Physical Therapy 3610</td>
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<td>35.00</td>
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### FEES AND EXPENSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Fee per Semester</th>
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</thead>
<tbody>
<tr>
<td>Physical Therapy 4313</td>
<td>15.00</td>
</tr>
<tr>
<td>Physical Therapy 4615</td>
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</tr>
<tr>
<td>Physics 1110, 1140, 1410, 1420, 1430, 2415, 2425, 4265, 4336, 4337, 5336, 5337, 5395, 5399A/B</td>
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<td>Physics 3316, 3411</td>
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<tr>
<td>Political Science 5379, 5787, 6379, 6787</td>
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<tr>
<td>Psychology 3302</td>
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<tr>
<td>Reading 1300, 3320, 3324, 4335, 5335</td>
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<td>Recreational Administration 3360, 4381, 4382, 4680</td>
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<td>Respiratory Therapy 1314, 1316, 2331</td>
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<td>Russian 1410, 1420, 2310, 2320</td>
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<tr>
<td>Social Work 3430, 3435, 4425</td>
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<td>Social Work 4645, 4650</td>
<td>11.00</td>
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<td>Sociology 1310</td>
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<tr>
<td>Sociology 3307, 3308, 3318, 4690, 5307, 5308</td>
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<td>Spanish 1410, 1420, 2310, 2320</td>
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<tr>
<td>Special Education 3336, 3337</td>
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<td>Technology 1450, 2310</td>
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<td>Technology 2344</td>
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<td>Technology 2365, 3350, 3365, 4310, 4313, 4330, 4362, 4391, 5391</td>
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<td>Technology 4385</td>
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<td>Technology 4390</td>
<td>30.00</td>
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<td>Theatre Arts 1358, 2338, 3313</td>
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</tr>
<tr>
<td>Theatre Arts 3341</td>
<td>15.00</td>
</tr>
<tr>
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<td>24.00</td>
</tr>
<tr>
<td>Theatre Arts 3344</td>
<td>8.00</td>
</tr>
</tbody>
</table>

### Laundry Service Fees for Physical Education Uniforms

Laundry Service Fees for Physical Education Uniforms are as follows:

<table>
<thead>
<tr>
<th>Group</th>
<th>Fee per Long Term</th>
<th>Fee per Summer Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>$14.00</td>
<td>7.00</td>
</tr>
<tr>
<td>Faculty, staff, or spouse of faculty or staff</td>
<td>40.00 or twelve months</td>
<td>15.00 or 5.00</td>
</tr>
<tr>
<td>Children of faculty or staff 18 years of age or younger</td>
<td>10.00 per long term</td>
<td>5.00 per summer session</td>
</tr>
</tbody>
</table>
Other Special Fees

Admission/Evaluation Fee for International Students ............................................. $50.00

Correspondence Instruction (not for graduate credit)
(3-hour course) ..................................................................................................... 165.00
(Pro rata portion of fee charged for each additional hour)
Fee for Extension of Correspondence Course ................................................... 35.00

Deficiency Plan Fee
For Southwest Texas State University Graduates ............................................. 15.00
For Non-Southwest Texas State University Graduates ................................... 30.00

Delinquent Installment Fee ....................................................................................... 15.00

Evaluation of Foreign Credentials (when applying for admission) ....................... 50.00

Installment Service Fee ......................................................................................... 10.00

International Education Fee .................................................................................... 1.00

Late Registration Charge ......................................................................................... 10.00

Music Practice Fee .................................................................................................... 2.00

Musical Instrument Insurance Fee ............................................................................ 5.00

Non-U.S. Citizen’s Fee (for special services) ......................................................... 50.00

Reinstatement Fee ..................................................................................................... 50.00

Residence Hall Deposit ........................................................................................... 100.00

Returned Check Fee .................................................................................................. 15.00

Schedule Change Fee (maximum) ........................................................................... 10.00

Special Late Registration Fee .................................................................................... 50.00

Student Health Center Fee for Overdue Accounts ................................................ 5.00

Transcript Fee (official copy) .................................................................................... 5.00

Certificate and Diploma Fees

Certificate Fee (payable when applying for certificate)
Provisional (permanent) ....................................................................................... $10.00
Professional ............................................................................................................. 10.00

Diploma Fee ............................................................................................................... 13.00

Diploma Insert Fee (reapplication for graduation) .................................................. 3.00

In Absentia Fee (special handling to mail diplomas) ............................................. 4.00
Additional Fees and Information

Admission/Evaluation Fee

A non-refundable admission/evaluation fee of $50.00 (U.S. currency) must be submitted, along with the Application for Admission to Graduate School, by all applicants who hold or will be holding a non-immigrant visa while in the United States, by all non-U.S. citizens, and by all applicants who are considered for admission on the basis of foreign credentials. No application will be considered until this fee is paid.

Auditing Fees

Where auditing of a course is permitted, all fees will be the same as if the course were taken for credit. Senior citizens, 65 or older, may audit courses without payment of a fee if space is available. Registration is permitted during late registration with reduction made at the tuition adjustment table before entering the data entry area.

Concurrent Enrollment at Another Public Institution of Higher Education

When a student is enrolled at two state colleges or universities the same semester, he or she may be eligible for reduced tuition charges at the second institution. The student must register at the institution with the lowest tuition rate first. The student must supply the original student copy of the paid receipt showing number of hours and amount paid for tuition at the first institution BEFORE paying fees at the second institution. University policy does not allow for refunds, as the law specifies that concurrent enrollment adjustments be made at the time of registration.

Extension Instruction

The fee for extension instruction is based on the number of students enrolled per class.

- 20 or more students .......................................................... $100.00
- 15 to 19 students .............................................................. 140.00
- 14 or fewer students ......................................................... 170.00

The audit fee for extension courses is the same as if the courses were taken for credit.

Fee Reduction

Qualifications. A master’s degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A., Education Code, Section 54.051, if the student is registered for thesis credit only and provided such credit is the final credit hour requirement for the degree in progress. Only Texas residents can qualify for this fee reduction.

Procedure. If you meet the above qualifications, these are the steps you must follow during registration:

1. Register by phone. Immediately after completing that process contact the Graduate Office to request a “Fee Reduction Verification of Enrollment” form.
2. The Graduate Office will verify student eligibility to obtain reduction and then forward the Fee Reduction Verification of Enrollment form to the Accounting Office, which will adjust the bill.
Fees for Summer Offerings Other Than Traditional Six-Week Sessions

The tuition and fees semester credit hour rate for any course of less than six weeks duration will be the same as the tuition and fees semester credit hour rate for the traditional six-week session. Tuition and fees semester credit hour rate for any term of more than six weeks duration will be the same as the tuition and fees semester credit hour rate for a regular semester of the school year.

Financial Obligations, Student

Students are expected to meet financial obligations to the university within the designated time allowed. Registration fees are payable at the time of registration. Students are not entitled to enter class or laboratory until their fees and deposits have been paid. Failure to pay the amount owed in the allotted time or payments made with checks that are returned to SWT unpaid by the bank may result in any or all of the following: 1) dismissal from the university, 2) withholding of registration privileges, 3) withholding the issuance of future grades or of an official transcript, 4) with the conferring of a degree, 5) the invalidation of a meal card (There will not be any refund for meals missed during the time the ID was invalidated.), and 6) bar against re-admission for the student.

Late Registration Fee

A late fee will be charged if a student registers during the late registration period.

Motor Vehicle Registration Fees

Every faculty member, student, or employee of the university who operates or parks one or more vehicles on the campus must register each vehicle during registration at the beginning of the fall semester of each year, or as soon as each vehicle is brought on campus, with the Office of Permits and Identification. Registration fees are charged according to the following schedule:

<table>
<thead>
<tr>
<th>All Motor Vehicles and Motorcycles</th>
<th>12 Months</th>
<th>9 Months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricted and On-Campus</td>
<td>$30.00</td>
<td></td>
</tr>
<tr>
<td>Commuter, Comanche Hill and Riverside Apartments</td>
<td>20.00</td>
<td></td>
</tr>
</tbody>
</table>

All Motor Vehicles and Motorcycles

Spring/Summer Only ............................................................... $20.00
Summer Only .......................................................... 20.00

The official traffic regulations are published by the university each year in a pamphlet entitled “Traffic, Parking, and Safety Regulations”.

Off-Campus Courses

Off-campus students are required to pay tuition and fees at the same rate as on-campus students.

Payment of Fees

Installment fees and deposits are payable at the time of registration. A student is not registered until the fees are paid. Payment may be made by check or money order payable to Southwest Texas State University. Visa/Mastercard payments are also acceptable upon presentation of the credit card.
Loose coins in excess of the appropriate denomination required by banks are not acceptable for payment of any fee unless they are wrapped in appropriate denomination coin wrappers and signed by the payer.

**Returned Checks.** If checks are returned unpaid for any reason other than the admitted error of the bank, the student must pay in cash immediately, and $15.00 service fee will be charged for each returned check. Students whose checks have been dishonored may be required to pay in cash thereafter.

**Residency for Tuition Purposes**

Guidelines for determining residency for tuition purposes are established by the Texas Legislature and the Coordinating Board, Texas College and University System. Texas residency for tuition purposes is generally obtained by physically residing and working in Texas for twelve consecutive months immediately prior to initial registration in a Texas institution of higher education, by being a dependent for tax purposes of a parent who is a Texas resident, or by being classified as a Texas resident for the first five of six years immediately preceding registration. Military personnel who maintain their official home of record or legal residence as Texas are considered to be Texas residents. Independent students over 18 years of age who come from out-of-state and who register in an educational institution before having resided in Texas for twelve months are classified as non-residents and presumed to be non-residents as long as they remain in Texas for educational purposes. Non-residents may qualify to pay in-state tuition if:

1. You or your spouse or parent as are members of the Armed Forces or Public Health Service and are stationed in Texas.

2. You or your spouse or your parent are employed at least half-time at SWT in a teaching or research assistant position related to your major, or your or your spouse or parent are employed at least half time by a Texas public institution or higher education as a teacher or professor.

3. You hold a competitive academic scholarship from SWT of at least $200 for the academic year or the summer.

An alien who is living in the state under a visa permitting permanent residence or domicile may register in a state institution of higher education at the resident tuition rate provided that the residency requirements are met. Proof of permanent resident status is required. Persons granted permanent resident status while in Texas must wait a minimum of 12 months from date of issue to request resident status for tuition purposes.

If you have lived outside Texas or have a possibility of being a non-resident, your residency is coded accordingly. A determination of your eligibility to pay in-state tuition will be finalized after the university has received a completed residency questionnaire.

It is your responsibility to ensure that your residence classification is properly coded for tuition purposes. Any change in residency status must be reported to the Office of Admissions. The above information is neither exhaustive or complete and should not be interpreted as such. Full regulations pertaining to residency are available from the Office of Admissions. If you are uncertain of your status, you are encouraged to obtain such rules and regulations and to seek a determination of your status through that office.

**Schedule Change**

A fee of $2.00 will be charged for each change of a student’s schedule during the schedule change period immediately following registration except when such change is dictated by circumstances deemed by the University Registrar to be beyond the student’s control. A $10.00 fee will be charged to drop a course after the schedule change period.
Student Health Center Late Fee

A $5.00 late fee will be charged at the Student Health Center for each emergency account receivable that is not paid within ten class days after medical treatment has been rendered.
Refund of Fees

Refund of General Property Deposit

The general property deposit, less charges, will be returned to you at the end of your career as a student, provided that any general property deposit which remains without call for refund for a period of four years from the date of last attendance at this university shall be forfeited and the deposit become a part of and operative to the permanent use of the University Student Deposit Fund.

Refund of Registration Fees

Withdrawals. Any student who has paid registration fees and officially withdraws by submitting a withdrawal card and registration receipt to the Registrar's Office in the J. C. Kellam building is entitled to a refund of tuition and fees under the following condition as listed below.

The amount actually paid, either in full or by installment, must be greater than the percentage of the total semester's charges owed to the university at the time of the withdrawal. The amount of the refund is calculated as follows:

\[
\text{refund} = (\text{amount paid for tuition and fees}) - (\text{semester charge for tuition and fees times percentage owed})
\]

If the percentage of total charges owed to the university at the time of the withdrawal exceeds the amount actually paid, the student remains liable for the unpaid balance. The schedule of the percentage owed the university is published in the official Schedule of Classes each semester.

Drops. Should a student reduce semester hours by officially dropping a course or courses, the following refund rates will apply, provided the student remains enrolled at Southwest Texas State University and pays the required drop fee:

Regular Long Semester
- During the first twelve class days ..............................................100%
- After the twelfth class day .........................................................None

Second Eight Weeks of Long Semester and Summer Sessions
- During the first four class days ..................................................100%
- After the fourth class day ...........................................................None

Payment of Refunds. An immediate refund will not be made at the time a student withdraws or reduces hours during a semester. Any refund will be applied to remaining obligations. If a student has paid in full, a check will be mailed on request within thirty days. A withdrawal refund check will be mailed to the student's permanent mailing address. A drop refund check will be mailed to the student's local mailing address. No refunds will be made when the amount is less than $5.00. Reducing semester credit hours to zero is considered a withdrawal and the withdrawal refund policies apply.

Refund for Summer Course Offerings Other Than Traditional Six-Week Sessions

For information regarding refunds on special course offerings, telephone the refund clerk in the university's general cashier's office at 512-245-2544.
Refund of Motor Vehicle Registration Fees

In order to receive a refund of the vehicle registration fee, the parking decal must be turned in to the Office of Permits and IDs at the time of withdrawal. The refund schedule for an unused parking registration tag is as follows:

**Fall or Spring Semesters**
- Prior to the first regularly scheduled class day .................. 100%
- During the first five class days ................................. 80%
- During the second five class days ........................... 70%
- During the third five class days ............................. 50%
- During the fourth five class days ........................... 25%
- After the fourth five class days .............................. None

**Summer Sessions**
- Prior to the first regularly scheduled class day .................. 100%
- During the first, second, or third class day ....................... 80%
- During the fourth, fifth, or sixth class day ....................... 50%
- Seventh day of class and thereafter .............................. None

Refund in the Event of Death

In the event a student dies and a refund of tuition, fees, room and board, deposits, or other moneys is due the estate of the deceased student, the university will presume that the person most recently indicated by the student as next-of-kin on official university records is to be the recipient of all refunds. The university will, as soon as feasible after the death of the student, pay all refunds due to the designated next-of-kin unless the student has specifically designated in writing to the University Registrar the name and address of another person to be the recipient of such refunds.
Financial Assistance

Financial Aid

FEDERAL REGULATIONS REQUIRE THAT YOU ARE MAKING SATISFACTORY ACADEMIC PROGRESS BEFORE YOU RECEIVE FINANCIAL ASSISTANCE. IN ORDER TO COMPLY WITH THESE REGULATIONS, THE FOLLOWING DEFINITION WILL BE USED BY SOUTHWEST TEXAS STATE UNIVERSITY:

For the purposes of awarding financial aid only, satisfactory academic progress will be determined after a graduate or post-graduate student has been enrolled for one semester and every semester thereafter. Students who are making up deficiencies (GPA or hours) are not eligible for aid until deficiencies are resolved. In addition to meeting the satisfactory academic progress requirements outlined below, all students must meet the specific financial aid program eligibility requirements. These satisfactory academic progress guidelines apply regardless of whether or not financial aid is received. A graduate or post-graduate student is considered to be making satisfactory progress for financial aid purposes if the following conditions are met:

1. A minimum cumulative grade-point average of 3.0 is maintained on all graduate or post-graduate work attempted at SWT. When a course is repeated once, the last grade earned (w's excluded) is the only grade used in computing the GPA. If a course is repeated more than once, the second grade and all subsequent grades are used in computing the GPA. An “I” grade will be a non-punitive grade for one year from the end of the semester in which the “I” grade is received and will not be counted in calculation of your GPA. If an “I” grade is not removed within the one year period, it will become an “IF” and will be counted in calculation of your GPA. Grades of “W”, “PR”, and “CR” are also non-punitive grades and will not be counted in calculation of your GPA.

2. A minimum of 6 semester graduate or post-graduate credit hours per semester and an average of 9 semester graduate or post-graduate credit hours over all semesters enrolled at SWT are satisfactorily completed. A course in which an “I” grade is received is not counted as hours completed, until such time as the “I” grade has been removed, in calculating average hours. If you withdraw from the university prior to mid-semester, you will not be charged with a semester in calculating your average hours. The semester will be counted where withdrawal occurs after mid-semester. Summer terms are not counted as semesters in calculating average hours.

3. A graduate student enrolled in an eligible program leading to a graduate degree requiring between 30-36 semester hours, including thesis credit and/or an internship, has eight (8) semesters, including summer semesters, of enrollment to complete the degree requirements. Each 5-/6-week summer session is considered as a semester.

4. A graduate student enrolled in an eligible program leading to a graduate degree requiring between 37-50 semester hours, including thesis credit and/or an internship, has twelve (12) semesters, including summer semesters, of enrollment to complete the degree requirements. Individuals enrolled in degree programs which require more than 50 semester hours should contact the Office of Student Financial Assistance. Each 5-/6-week summer session is considered as a semester.

5. A post-graduate student working toward a certificate has four (4) semesters, including summer semesters, of enrollment to complete the requirements for the certificate. Each 5-/6-week summer session is considered as a semester.

6. A maximum of 6 semester hours of thesis enrollment is counted in the GPA calculation for academic progress for financial aid purposes.
7. A graduate or postgraduate student not meeting the above satisfactory academic progress requirements is ineligible for financial aid. Under normal circumstances, a written appeal to waive the above conditions can be made in the following order:
   a. to the Financial Aid Counselor,
   b. to the Assistant/Associate Director,
   c. to the Director,
   d. to the Financial Aid and Scholarship Committee.

8. A student has five working days from the time of notification (written or oral) to submit a written appeal to the next level. If no written appeal is submitted within the prescribed period, the student forfeits rights to any further appeal.

Access to a post-secondary education is not limited by the ability of a student and/or parent to provide for necessary educational expenses. SWT participates in a variety of federal, state, and local financial aid programs which may provide assistance if you do not otherwise have sufficient funds available to defray educational costs.

To be eligible for financial assistance, you must be enrolled at least half-time in a degree-granting or certification-granting course of study, in good standing, making satisfactory academic progress as defined above, and not in default or delinquent on any loan made to you for your attendance at any institution. You must not owe a refund on federal funds previously received for attendance at any institution.

The Office of Student Financial Assistance awards aid on the basis of financial need, starting with the highest need factors and awarding aid until funds are depleted. Meeting the application priority dates is important as there is a limited amount of aid to be distributed, and those applications completed by the priority dates will be considered first. To ensure priority consideration, applications and all required documentation must be on file in the Office of Student Financial Assistance by the following application dates:

- Fall Semester: April 1
- Spring Semester: October 1
- Summer: March 15

If you apply and/or complete your financial aid records after these dates, you face the increased possibility that funds will not be available. Additionally, funds will not be available at registration.

Financial assistance staff may be reached at (512) 245-2315 or on the second floor, J. C. Kellam building, Monday through Friday.

Veterans Benefits

Students attending SWT while receiving educational assistance under one of the public laws for veterans and/or their dependents, must contact the SWT Office of Veterans Affairs to complete the required application papers.

Students applying under Veteran’s Administration laws for the first time must provide the Office of Veterans Affairs with a certified copy of DD Form 214, “Report of Separation from Active Duty.” The original Copy 4 may be submitted but it will be returned to you only at your written request. Active duty military personnel and dependents are exempt from this requirement. Transferring students who have previously used their VA educational benefits need to only submit a change of place of training form.

Benefit payments are made at the end of each month. Any student enrolling under any of the provisions for VA educational benefits should bring sufficient funds to defray the initial cost of tuition, fees, and living expenses for approximately three months.

As a graduate student receiving veteran benefits, you must file with the Office of Veterans Affairs an official master’s degree outline, a certification deficiency plan, or other similar documentation showing the requirements needed to accomplish your objective. It is your responsibility to notify the Office of Veterans Affairs of any adds, drops, course or program changes.
School of Applied Arts and Technology

Department of Agriculture

Degree Programs

Major and Degree Offered:
Agricultural Education, M.ED.

Major Programs

A 36-semester hour, Master of Education degree with a major in agricultural education and an integrated minor in agriculture and closely related fields is available with a thesis and a non-thesis option. The degree is designed for students who are practicing professionals in vocational agriculture, agricultural extension education, governmental agriculture categories, and other professional vocational education programs.

The major in agricultural education consists of 21 semester hours selected from the available agricultural education courses. The 15-hour integrated minor (scientific agriculture—supportive courses) has selected support courses available in agriculture, business administration, biology, education, English, psychology, special education, and speech communication. The supportive courses are to be chosen with the advice and consent of the graduate adviser.

Courses Offered

Agriculture (AG)

5315 Fertilizers and Soil Productivity. (2-2) The principles of fertilizer use for maintenance of soil productivity. Fundamentals of crop-producing powers of soils will be discussed, as well as proper fertilizer use to secure maximum economic yields. Also, the technology of fertilizer preparation and proper application for greatest economic returns.

5321 Advanced Range Management. (3-0) Advanced problems in range management such as range and ranch economics, maintenance and improvement of the range through reseeding, brush control, and proper stocking.

5360 Advancements in Animal Science. (3-0) Survey of the current knowledge and concepts in animal production including economic considerations and current production problems in breeding and feeding livestock.

5370 Problems in Technical Agriculture. A conference course. Problems will be selected to meet the needs of the individual student.

5380 Advancements in Horticulture. (3-0) Survey of the current knowledge and concepts in horticulture including economic considerations and current production problems.

5426 Classification and Management of Range Soils. (3-2) Classification and management of range soils in Texas. The physical relationships of soil moisture, temperature, penetrability, and aeration to plant growth. Range condition classes, range sites, land classes, and problem areas as they affect management.

1 May be repeated for additional credit when problem differs.
Agricultural Education (AGED)

5314 Problems in Teaching Vocational Agriculture. The student is given the opportunity to work on problems of special interest and need in teaching high school vocational agriculture.

5318 Administration and Supervision of Vocational Education. (3-0) The administration of comprehensive vocational education programs with emphasis on the operation and implementation of programs governed by state and national laws.

5319 Youth Leadership and Adult Education Methods and Activities. (3-0) The rationale, planning, implementing, conducting, and evaluation of leadership programs for in-school and out-of-school clientele will be analyzed. Attention will be given to special methods used to enhance youth and adult education. Secondary vocational education student organizations and the 4-H Club will also be studied.

5320 History and Principles of Vocational Education. (3-0) Study of history, basic principles, and philosophy of different programs of vocational education existing today.

5321 Diffusion of Innovations. (3-0) Dynamics of cultural change as theoretical framework for planned technological change, methods of implementing change, the effects of change, and the prediction of change.

5330 Vocational Techniques of Research and Analysis. (3-0) Principles and procedures of evaluation used in developing and implementing programs of vocational education will be stressed. The procedure involved in proposal writing will be studied.

5331 Guidance. (3-0) Analysis of occupational and vocational opportunities for vocational students; includes work in interpersonal communications as well as in the techniques of individual and group counseling in guidance. Practice in personality and occupational interest testing.

5335 Curriculum Development of Vocational Programs. (3-0) Principles and practices in developing curricula for different areas of vocational education will be emphasized. The dynamics of cultural and technological changes on methods of planning and implementing vocational curricula as it relates to the educational needs of vocational youth will be stressed.

5371 Topics in Agricultural Mechanics. (3-2) Study of selected topics not currently available in existing courses. Topics to be considered will be taken from the following: 5371A Advanced Farm Power and Machinery, 5371B Water Utilization and Management in Agriculture, 5371C Energy Use and Management in Agriculture, 5371D Agricultural Structures Design, and 5371E Advanced Welding Processes and Designs.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Agricultural Education 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

1 May be repeated for additional credit when problem differs.
Graduate Faculty

Abel, Burl Michael, Associate Professor of Agriculture. B.S., D.V.M., Texas A&M University; M.S., Iowa State University.

Angirasa, Aditi Kumar, Associate Professor of Agriculture. A.B., Punjab University; M.S., California State Polytechnic University; M.S., University of California at Davis; Ph.D., Texas A&M University.

Carson, Charles Dee, Professor of Agriculture. B.S., M.S., Ph.D., Texas A&M University.

Davis, Bob, Professor of Agriculture and Chair of the Department of Agriculture. B.S., M.S., Texas A&M University; Ph.D., North Carolina State University.

Miller, Roy V., Jr., Professor of Agriculture. B.S., Texas Tech University; M.S., Ph.D., Colorado State University.

Rydl, Glen Myrlin, Professor of Agriculture. B.S., M.S., Ph.D., Texas A&M University.

Shell, Lon Ray, Professor of Agriculture. B.S., M.S., Ed.D., Oklahoma State University.
Department of Criminal Justice

Degree Programs

Major and Degree Offered:
Criminal Justice, M.S.C.J.

Major Programs
The Department of Criminal Justice offers a Master of Science in Criminal Justice (MSCJ) degree, and the department also participates in the Master of Science in Interdisciplinary Studies program. The graduate program within the Department of Criminal Justice is designed to assist professionals in assuming program and administrative responsibility in the design and management of an effective, efficient, and responsive criminal justice system. The curriculum provides for the development of skills in criminal justice program planning, implementation, and evaluation to ensure a meaningful contribution to this important area of community and human services.

The Master of Science in Criminal Justice degree provides a 36-semester hour program with thesis and a non-thesis options. Both the thesis and the non-thesis options require the completion of Criminal Justice 5310, Criminal Justice 5311, Criminal Justice 5315, Criminal Justice 5320, Criminal Justice 5321, Criminal Justice 5325, Criminal Justice 5330, Criminal Justice 5340, and Criminal Justice 5350 for a total of 27 hours. In addition to this common core, thesis option candidates are required to complete 3 hours of designated electives (chosen from the approved options) and a thesis worth a total of 6 semester credit hours. The non-thesis option requires completion of Criminal Justice 5360 and 6 hours of designated electives (chosen from the approved options).

Candidates for the Master of Science in Criminal Justice degree who choose the non-thesis option will be required to complete a professional quality paper as a component of the degree program. This paper must be approved by three of the department’s graduate faculty.

Comprehensive Examination. All students must pass both written and oral comprehensive examinations. The purpose of these examinations is to provide a structured situation in which the candidate can demonstrate proficiency in various areas of study. Please see the graduate adviser for a detailed description of the comprehensive examination procedures.

Admission Policy
Admission to the Master of Science of Criminal Justice program is selective and designed to identify those applicants who have the ability, interest, fitness and maturity to manage the rigors of the program and career field. Applicants must possess either a baccalaureate degree in criminal justice or a degree in a related field from a regionally accredited university. No student will be considered for admission without a Graduate Record Examination score. All students must submit a writing sample for evaluation with required applications (see procedures for submission of a writing sample described below). No application for regular or conditional admission will be considered after the application deadline established by the Graduate School and set out in General Admission Policies.

Regular Admission. There are two regular admission procedures available to a student, i.e., regular admission through MSCJ graduate director approval and regular admission through MSCJ graduate faculty review.
(a) Regular admission through MSCJ graduate director approval: a student with a GPA of 2.75 or above (on a 4.0 scale) in the last 60 semester hours of undergraduate work before the baccalaureate, a GRE score of 900 or better (Verbal and Quantitative portions combined) and a satisfactory evaluation of their writing sample will be eligible for regular admission by approval of the MSCJ graduate program director if space is available. This regular admission procedure will not require MSCJ graduate faculty review prior to admission.

(b) Regular admission through MSCJ graduate faculty review:
(1) A student with a GPA between 2.5 and 2.75 (on a 4.0 scale) in the last 60 semester hours of undergraduate work before the baccalaureate, a GRE score of 900 or better (Verbal and Quantitative portions combined) and a satisfactory evaluation of their writing sample will be eligible for admission considerations through MSCJ graduate faculty review.
(2) A student with a GPA of 2.75 or above (on a 4.0) scale in the last 60 hours of undergraduate work before the baccalaureate, a GRE score of less than 900 (Verbal and Quantitative portions combined) and a satisfactory evaluation of their writing sample will be eligible for admissions consideration through MSCJ graduate faculty review.
(3) A student with an adequate GPA and GRE scores for regular admission procedures, who fails to obtain a satisfactory evaluation of the writing sample, will be eligible for admission consideration through MSCJ graduate faculty review.

Conditional Admission
A student who has a GPA of less than 2.5 (on a 4.0 scale) in the last 60 hours of undergraduate work before the baccalaureate, a GRE score of less than 900 (Verbal and Quantitative portions combined) and a satisfactory evaluation of the writing sample may apply for conditional admissions consideration. Applications for conditional admission are reviewed by the MSCJ graduate faculty for a recommendation on admission and additional requirements. The Dean of the Graduate School makes the final conditional admissions decision. When the requirements for conditional admission have been met, the student is eligible for regular admission.

Required Writing Sample
Procedure for Submission of Writing Sample. After the MSCJ program director receives a copy of the application for admission from the Graduate School, the student will be mailed a writing sample form. On the form provided, the applicant should write a narrative response to these questions:
(1) In your own words and your own handwriting, please indicate why you wish to obtain the MSCJ degree, how the MSCJ degree will benefit you in your career and your future aspirations, and why you chose to apply to the MSCJ program at SWT.

The writing sample must be in the student's own handwriting. It should be between 350-300 words in length. The student must sign the verification at the bottom of the form stating that the writing sample is the student's own work. The completed writing sample form must be mailed to: Graduate Director, MSCJ Program, Criminal Justice Department, Hines Academic Center, Southwest Texas State University, San Marcos, TX 78666.

Procedure Evaluation of Writing Sample. Upon receipt of the writing sample from the student, the MSCJ graduate director will make an initial evaluation of the writing sample based on criteria that include, but are not limited to, the following factors: literacy skills, ability to express thoughts, and graduate level writing skills. If the MSCJ graduate director evaluates the writing sample as satisfactory, it will not be reviewed by the MSCJ graduate faculty. If the MSCJ graduate director evaluates the writing sample as unsatisfactory, it will be re-evaluated by the MSCJ graduate faculty at the time the student is considered for admission through MSCJ graduate faculty review.
Admission Appeal Process

If a student is denied admission to the MSCJ program and would like to appeal the decision, the student should contact the Chair of the Department of Criminal Justice to determine the correct procedure.

Courses Offered

Criminal Justice (CJ)

5310 Administration of Justice. (3-0) Introduction to the study of crime; explanations of criminal behavior; typologies of criminal behavior; the criminal justice system; and social reaction to crime and the criminal justice system.

5311 Administrative Law in Criminal Justice. (3-0) Legal principles and doctrines applicable to state and federal criminal justice agencies delegated quasi-legislative and quasi-judicial authority by legislatures are studied and evaluated in this course.

5315 Advanced Research Methods in Criminal Justice. (3-0) The study of scientific research methods as used in the criminal justice system to include a review and critique of research on crime causation, law enforcement, courts, and corrections.

5320 History and Philosophy of Justice. (3-0) An exploration of historical approaches to social control of non-conforming behavior. The principal contributions of architects and theorists of systems of social justice are examined with emphasis on major Western European schools of thought. Special emphasis is given to the development of the scientific method and its role in the contemporary system of justice.

5321 Current Legal Issues in Criminal Justice. (3-0) Case law and legislation, both state and federal, which have contemporary impact on practices and policies of criminal justice agencies will be examined in this course. Topics may vary to include such matters as civil rights liability, substance abuse and the law, juvenile crime, organized crime, tactics of enforcement, unionization, and other legal rights.

5325 Statistics for Criminal Justice. (3-0) The study of basic and advanced descriptive and inferential statistics, with an emphasis on applications in the criminal justice system.

Prerequisite: Criminal Justice 5315.

5330 Management Principles in Criminal Justice. (3-0) The study of behavior in complex organizations with an emphasis on organizational behavior, group processes, and the managerial function. Concepts and practices of managing criminal justice agencies within the United States will be stressed.

5340 Personnel Practices in Criminal Justice. (3-0) The study of personnel decision making within the criminal justice agency. Topics emphasized will include recruitment and selection, promotion, training, performance evaluation, and human resource allocation.

5350 Current Issues in Criminal Justice. (3-0) An in-depth presentation and discussion of vital contemporary issues in criminal justice, including research, process, procedure, and substance. General issues addressed remain constant and specific emphasis will vary depending on changes in contemporary issues.

5360 Independent Studies in Criminal Justice (3-0). Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of Criminal Justice. Students in the non-thesis degree option will complete their professional paper while enrolled in this course. May be repeated once for additional credit.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Criminal Justice 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding.

1 May be repeated for additional credit.
Graduate Faculty

Jamieson, Jay David, Associate Professor of Criminal Justice. B.A., University of the South; M.A., Ph.D., Sam Houston State University.

McConnell, Emma Elizabeth, Assistant Professor of Criminal Justice. B.S., M.S., Valdosta St. College; Ph.D., Sam Houston State University.

McLaren, John Allen, Associate Professor of Criminal Justice. B.A., Texas Tech University; J.D., University of Texas at Austin.

Mullins, Wayman C., Associate Professor of Criminal Justice. B.A., M.A., Ph.D., University of Arkansas.

Smith, Barry David, Associate Professor of Criminal Justice. B.S., Pennsylvania State University; M.S., Eastern Kentucky University; Ph.D., Sam Houston State University.

Stone, William Edwin, Associate Professor of Criminal Justice. B.S., M.A., Ph.D., Sam Houston State University.
Department of Technology

Degree Programs

Majors and Degrees Offered:
Industrial Arts, M.A., M.Ed.
Additionally, the Occupational Education Division participates in the university's interdisciplinary Master of Science in Interdisciplinary Studies (M.S.I.S.) degree.

Major Programs
The Department of Technology offers the degrees of Master of Arts and Master of Education, both with majors in industrial arts. The department also participates in the Master of Science in Interdisciplinary Studies degree with a major in Occupational Education.

Industrial Arts. The Master of Arts with a major in industrial arts provides both a thesis and non-thesis option along with a minor/non-minor option. With the thesis option, a minimum of 30 semester credit hours of graduate course work is required. Under this plan, students enroll in 18-24 semester hours of graduate technology course work, which includes 6 hours of thesis. A minor of 9-12 semester hours from any other graduate program area offered at SWT is then selected with graduate adviser approval from that department or division. As an option, students may elect to pursue a 6-12 semester hour cognate area instead of the minor. This cognate area is composed of graduate-level course work from any department or division at SWT other than technology. Course selection regarding the cognate area should be accomplished with career goals in mind and requires formal approval from the Department of Technology's graduate adviser or department Chair. Students who pursue the Master of Arts degree with the non-thesis option must take a minimum of 36 semester hours of graduate-level course work. From these 36 semester hours, 24 hours must be selected from graduate-level technology offerings. The remaining 12 hours can be arranged as either a minor or a cognate area. In either case, the same rules apply as those described above in the thesis option.

The Master of Education with a major in industrial arts consists of at least 36 semester hours with a major of 21 hours from technology and a minor of 15 hours. The Master of Education degree does not provide a thesis option.

Occupational Education. The Division of Occupational Education coordinates a Master of Science in Interdisciplinary Studies degree. This degree program is offered by the university and is not meant to replace any currently existing traditional program of study but does draw courses from other departments offering graduate-level work. This degree is highly individualized and is designed to provide the adult with various course options. The MSIS degree consists of a minimum of 39-semester hours. Degree requirements include an entry module (9 hours in effective communications), an academic module (21 hours), and an exit module (9 hours). Up to 9 hours of requirements in the academic module may be met by experience, judged either by means of refereed testing after enrollment in specific courses or by the Work/Life-Experience Evaluation Board. Further information may be obtained by contacting the Director of Occupational Education or referencing the “Interdisciplinary Studies” section of this catalog.

Vocational Education Certification
The Department of Technology offers vocational teaching certification programs in the areas of vocational industrial education, health occupations education, marketing education, office education, career investigation, and occupational orientation. Additionally, certification is offered for vocational directors and supervisors, vocational counselors, and job placement coordinators. Students who choose one of these vocational certification sequences are prepared for employment in the public schools
of Texas provided they satisfactorily complete all required courses and other Texas Education Agency criteria for vocational teachers and administrators, including two to three years' prior occupational experience for teachers, and three years' prior vocational teaching experience for supervisors and directors.

All courses in the teacher certification areas must be taken from an approved educator in the respective occupational specialty. The teaching certificate is awarded after students have taught in their vocational area for two years in the public schools.

**Vocational Industrial Education.** This certification qualifies individuals to teach vocational industrial education programs in the Texas junior and senior high schools. Vocational industrial education for secondary students includes any subject or program designed to develop manipulative skills, technical knowledge, and related information necessary for employment in any craft or skilled-trade occupation that directly functions in designing, producing, processing, fabricating, assembling, testing, maintaining, servicing, or repairing any product or commodity. Training is also available in service and certain semiprofessional occupations.

Certification courses include: Vocational Education 5202, Vocational Education 5204, Vocational Education 5205, Vocational Education 5206, Vocational Education 5207, Vocational Education 5208, Vocational Education 5301, and Vocational Education 5303.

**Vocational Health Occupations.** This certification qualifies individuals to teach vocational health occupations programs in the Texas public schools. Vocational health occupation programs are designed so that each public school student completing them will have achieved two major goals: (1) attainment of sufficient information, observation, and practical knowledge in the range of health occupations to make an informed choice about further commitment toward a health-related career and (2) attainment of knowledge and skills necessary for entry-level employment in at least one of the many occupations related to the care of patients, prevention of illness, and maintenance of health. Entry-level employment comprises functions that are assistant to or supportive of those of duly licensed or certified health practitioners.

Certification courses include: Vocational Education 5202, Vocational Education 5204, Vocational Education 5205, Vocational Education 5206, Vocational Education 5207, Vocational Education 5208, Vocational Education 5301, and Vocational Education 5303.

**Office Education.** Office education certification qualifies individuals to teach all office education programs in the junior or senior high schools and in adult centers. Office education programs are designed to prepare students for entry-level positions in office-related occupations. Some areas of office education include the following: business computer applications, office administrative systems, business information processing, and office support systems, etc.

Certification courses include: Vocational Education 5380, Vocational Education 5381, plus 6 semester hours recommended by the office teacher educator in the course area to be taught.

**Marketing Education.** Certification qualifies individuals to teach vocational marketing education programs at the secondary level. Marketing education is designed to prepare, maintain, and advance students in marketing and management-related occupations. The program of instruction is provided through high schools and adult education centers and involves a combination of the following: (1) classroom instruction in marketing or in any specialized marketing area; (2) practical and/or simulated job-oriented experiences; (3) supervised on-the-job training; and (4) coordinated student leadership activities through membership in DECA.
Certification courses include: Marketing 3343, Marketing 3355, Vocational Education 5301, Vocational Education 5302, Vocational Education 5303, and Vocational Education 5304.

Career Investigation/Occupational Orientation. Career investigation/occupational orientation is a guidance activity designed as a pre-vocational instructional program to assist students in making meaningful and informed choices about the world of work. These graduate-level courses are designed to certify individuals as career investigation/occupational orientation teachers in the secondary schools.

Certification courses include: Vocational Education 5205¹, Vocational Education 5301², Vocational Education 5303, Vocational Education 5355, and Agricultural Education 5331.

Vocational Administrator and Vocational Counselor Certification

Vocational Directors and Vocational Supervisors. These graduate-level certification programs are designed to teach an individual the organization and administration of a total vocational education program within a public school system. It is a comprehensive program composed of administration, research and analysis, supervision, and curriculum development for the various vocational education programs.

Vocational Counseling and Guidance and Job Placement Coordinators. These two areas are designed to give those individuals who are already certified as professional counselors the knowledge to provide high quality professional services that assist children, youth, and adults in selecting and pursuing a vocational education that is best suited to their needs, interests, and abilities. These courses (graduate or postgraduate) are designed to certify the professional counselor so that the counselor may interact with the total student, e.g., educationally, occupationally, and emotionally.

Candidates for vocational director and supervisor as well as vocational counselor and job placement coordinator certification must contact the certification coordinator in these areas for initial approval, work experience and teaching experience evaluation, and course work deficiencies.

Professional Improvement

Other courses offered for career ladder advancement and professional improvement include: Vocational Education 5313A, Teaching Vocational Education Students with Special Needs; Vocational Education 5313B, Microcomputers in Vocational Education; Vocational Education 5313C, Teaching Entrepreneurship in Vocational Education; Vocational Education 5313D, Leadership and Leadership Activities for Vocational Teachers.

Courses Offered

Technology (TECH)

5310 Computer-Aided Drafting and Design. (3-0) A study of the various aspects of computer-aided drafting and design. Standard CADD software packages for both main frame and microcomputer systems are examined. Topics include 2D, 3D, and solid modeling modes with primary concentration on microcomputer applications.

5361 Contemporary Construction Methods and Techniques. (3-0) Deals with current topics and trends in the construction industry. Construction engineering, including materials, soil and structure testing; estimating; scheduling; utilities; surveying; and site layout are covered. Prepared, construction-related computer programs are utilized and evaluated.

5364 Statistical Applications in Manufacturing Process Control. (3-0) Provides the student with in-depth exploration of inferential statistics as applied to manufactur-
ing process control and quality assurance. Topics covered include frequency distributions, quality control charts, and experimental design. Prior experience with introductory level statistics is assumed.

Prerequisite: Technology 3364 or Management 4330 or consent of instructor.

5374 Designing with Combination Logic. (2-2) A detailed study of combination logic is presented emphasizing the use of Karnaugh's Maps for circuit minimization. General principles relating to the theory of digital circuit design are complemented by actual combination logic circuit construction. Theory and application are combined in a final project where each student has the opportunity to apply what has been learned to the solution of a discipline-related problem.

5375 Sequential Logic Circuit Design. (2-2) Course deals with the design of various types of flip-flops, leading and trailing type triggering, clock circuits, register operation, register transfer and in general the principles of sequential logic circuit design. Concepts of digital circuit design including DeMorgan's Theorem and Karnaugh's mapping techniques are built upon with both theoretical and practical application.

5381 Industrial Methods and Production Techniques. (3-0) Students select information regarding technical, economic, personnel, and ecological features of modern manufacturing systems and techniques. Examples of technology in specific industries and analysis of each will be examined so that basic principles of manufacturing and related technology may be understood.

5384 Problems in Technology. (3-0) Graduate students investigate a special topic by developing a technical problem, researching the topic, and presenting the findings. Plans will be developed on an individual basis with strict faculty supervision.

5385 Modern Industries. (3-0) A study of the technical, social, and economic aspects of modern industry. Individual and group studies of selected industries will be made. Results will be submitted in a form suitable for publication consideration.

5387 Planning Advanced Technology Facilities. (3-0) An in-depth study of technical problems encountered in designing, equipping, arranging, and specifying facility requirements for industrial and technical training facilities.

5388 New Developments in Technology Education. (3-0) A study of the development of Technology Education. Emphasis will be given to concepts appearing since 1960 as a result of the changing role of technology in our society.

5389 Curriculum Construction in Technology. (3-0) Techniques and procedures used in the selection, organization, and production of instructional materials for use in technology courses and industrial/technical training programs.

5390 Research in Technology. (3-0) Examination of scientific method including theory formulation, deductive reasoning, hypothesis generation, observation, inductive reasoning, and theory revision. Categories of research are compared and contrasted as regards methodology. In-depth study of experimental research as it relates to significant industrial problems including considerations of design, internal and external validity, and appropriate analytical technique. Introduction to computerized data analysis and its proper interpretation. Preparation of research proposals using criteria outlined throughout the course.

5391 Computer-Integrated Manufacturing. (3-0) Deals with the various aspects of computer-integrated manufacturing, concentrating primarily on NC/CNC turning, boring, drilling, and milling equipment. Standard programming packages for both main frame and microcomputer systems are examined with primary concentration on direct and indirect microcomputer interfacing. Minimal exposure to robotic arms and manipulators is included.

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3 May be repeated for additional credit with permission of the chair of the department.
5393 Measurement and Evaluation Methods in Technology. (3-0) The objectives of evaluation including but not limited to methods of testing, interpretation of test results, statistical methods of score analysis, manpower evaluation, and reporting techniques will be studied.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Technology 5399B.

5399B Thesis. This course represents a student’s continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

5692 Administration and Supervision of Driver Education. (6-0) Review basic driver education; advanced techniques of teaching simulation; multi-car range; multimedia response systems; concepts of supervision and administration; practices of supervisory behavior; group interaction; interviewing; scheduling of teaching teams, instructors, pupils, and administrative behavior. A research problem will be done.

Vocational Education (VOED)

5300 Vocational Student Identification, Placement, and Follow-up. (3-0) A study of the theory, methods, and instruments used in determining occupational aptitude, attitude, and interest of students (identification); the study of planning, organizing, and coordinating programs of job placement; and the study of the development and coordination of student follow-up.

5301 Methods of Teaching Vocational Subjects. (3-0) Designed to assist the vocational education teacher in understanding the nature of teaching, the various learning situations that must be met, the need for certain teaching methods and techniques, and the correct application of these to properly prepare students for entrance into, or advancement in, their chosen occupational field.

5302 Coordination Techniques. (3-0) The cooperative program in marketing and distributive education; program establishment; guidance, selection, and placement of students; work adjustment, student objectives, evaluation; labor laws; public relations.

5303 Aims and Objectives of Vocational Education. (3-0) The vocational teacher's relationship to the operation of the public education system at the local, state, and national levels. Emphasis on vocational education programs and legislation. Study of the purposes and structure of general education and vocational education, the development of vocational education in the United States, the need for vocational education, the organizational structure of vocational education, financial support and control of vocational education, and professional qualification of teachers of vocational education classes. Current trends in vocational education and their effects on present and future vocational programs.

5304 Organization and Management of Marketing and Distributive Education Programs. (3-0) Organization and administrative structure in the United States; objectives, programs, practices, teacher selection and supervision, evaluative criteria for business and distributive education departments.

5305 Laboratory and Classroom Organization and Management. (3-0) Organization and management procedures used in vocational laboratory programs. Includes establishing record keeping systems; systems of controlling tools, equipment, and supplies; using organization, rotation, and progress charts; using student leadership in routine non-teaching class and laboratory tasks; establishing a safety program; and developing proper attitudes with the program.

5306 Analysis and Course Making. (3-0) Gathering, organizing, and preparing of teachable material based on sound occupational practices. Includes a study of factors involved in development of vocational instruction, the parts of a course of study, and procedures for trade or occupational analysis. Trade or occupational analysis, course

5 Repeatable for credit.
outlines, and progress charts will be prepared. Courses of study will be revised or prepared as completely as time will permit.

5307 Selection, Placement, and Follow-Up in Cooperative Education. (3-0) Organizing and operating cooperation training programs in the community. Includes procedures for selecting vocational occupations and training stations suitable for providing training to high school youth, placement of students in suitable employment for part-time training, coordinating students' school and on-the-job training activities, organizing the classroom facilities, preparation of necessary reports, and preparation and maintenance of an effective record system.

5308 Problems in Cooperative Education. (3-0) Review of basic standards for cooperative education training programs and underlying reasons for such standards with emphasis on solutions of actual problems in program operation. Includes study of procedures and techniques involved in various surveys, interpretation of survey data, program promotion, and organization and coordinator of all types of part-time and evening classes.

5312 Development, Organization, and Use of Instructional Material. (3-0) Selection of lesson content, planning the lesson, and use of various instructional sheets that will assist the teacher. Emphasis on correct development of instructional sheets. Study of different methods used to secure, evaluate, and incorporate this material into the instructional program. Study of various methods of testing effectiveness of instruction and how students progress may be recorded for future references and class planning.

53134 Special Topics in Vocational Education. (3-0) Directed study and research in selected topics in vocational education. An independent research project will be assigned each student.

5313A Teaching Vocational Education Students with Special Needs. In-depth studies of characteristics, principles of mainstreaming, developing, and implementing an Individual Education Program, research of gifted and talented, limited English proficient and learning disabled students. Preparation of resource materials for vocational teachers.

5313B Microcomputers in Vocational Education. Techniques and procedures for options, implementation, software, and applications of microcomputers in vocational education. Preparation of reference lists for vocational teachers.


5313D Leadership and Leadership Activities for Vocational Teachers. Study of management, styles, training and development of vocational leaders. Evaluate present Vocational Youth Leadership Organizations.

5314 Human Relations for Vocational Education Teachers. (3-0) Establishing and maintaining relationships with students, co-workers, other school personnel, industry, and persons in the community. Includes a review of the principles of learning. Principles and skills in working with people will be developed through a study of: influences of heredity and environment, basic wants and needs, motivational factors, development of positive attitudes, teacher-student relationships, leadership development and elements of effective communication. A study of techniques of identifying and arriving at probable solutions to problems in human relations will be included.

5341 Supervision of Vocational Education. (3-0) Course develops understandings, skills and attitudes for the supervision of personnel in the field of vocational education. These supervisory abilities are intended to be applicable in positions such as department head, lead teacher and coordinator, as well as in positions with the title of supervisor, director, or administrator. This course should also help prepare individuals for leadership positions within professional organizations.

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4 May be repeated three times with different emphasis for additional credit.
5355 Career Education and Occupational Information in Vocational Guidance. (3-0) Course dealing with the collection, evaluation, and interpretation of educational, occupational and personal-social information. Includes the nature of work, the dynamics of vocational choice and development, psychological and sociological factors in job selection, manpower trends, occupational surveys, job analysis, and recent publications dealing with these topics. Emphasis placed on ways and means whereby this information can be utilized by classroom teachers, guidance personnel, specialists, and personnel managers in business or government service.

5380 Occupational Analysis. (3-0) Analysis of office occupations to determine the skills and related information needed for the purpose of determining the contents of a course of study needed by students for entry-level skills in an approved office occupation.

5381 Instructional Strategies in Vocational Office Education Programs. (3-0) For laboratory- and teacher-coordinators of VOE programs. Development of strategies based on an assessment of individual student needs and office career objectives.

5382 Organizing and Implementing Cooperative Vocational Office Education Programs. (3-0) Identification of the vocational office education student, placement of student in office occupations, evaluating prospective business offices to determine the effectiveness of office machines and office procedures in training VOE students, and analyzing supply and demand data for office occupations which ensure job entry employment.

5390 Independent Study in Vocational Education. (3-0) In-depth study of important and timely topics relevant to the vocational educator desiring advanced skills in vocational education.

Graduate Faculty

Batey, Andy, Jr., Associate Professor of Technology. B.S., M.Ed., Southwest Texas State University; Ph.D., University of Maryland.

Borchers, Ralph Edward, Assistant Professor of Technology. B.A., University of Wyoming; M.A., University of Northern Colorado; Ed.D., University of Wyoming.

Ellsworth, Jill Harrison, Assistant Professor of Technology. B.A., Michigan State University; M.S., Ph.D., Syracuse University.

Goldsmith, James Milton, Assistant Professor of Technology. B.S., M.Ed., East Texas State University.

Habingreither, Robert Bruce, Professor of Technology and Chair of the Department of Technology. B.A., M.A., Montclair State College; Ed.D., West Virginia University.

Martin, Gordon Eugene, Professor of Technology and Dean of the School of Applied Arts and Technology. B.S., Southern Illinois University; M.Ed., Miami University; Ed.D., University of Maryland.

Pierson, Michael James, Professor of Technology. B.S.Ed., Abilene Christian University; M.Ed., Southwest Texas State University; Ed.D., Texas A&M University.

Springer, Stephen Barry, Assistant Professor of Technology and Acting Director of the Office of Occupational Education. B.A., St. Mary's University; M.Ed., Our Lady of the Lake University; Ed.D., Texas A&M University.

Windham, Billy Lee, Associate Professor of Technology. B.S.Ed., M.A., Southwest Texas State University; Ed.D., Texas A&M University.

Winek, Gary Joseph, Associate Professor of Technology. B.S., University of Wisconsin at Stout; M.Ed., Ball State University; Ph.D., University of Maryland.
The School of Business is an integral part of Southwest Texas State University and provides broad-based, student-focused education in all the fundamental areas of business at the undergraduate and graduate levels.

Programs offered provide balance between theory and application to prepare students for positions of leadership and responsibility in local, regional, national, and international environments. The School of Business maintains and develops programs at the undergraduate level for individual specializations in selected career fields; graduate programs are broad based to provide integrated study for executive decision making.

The cornerstone of the School of Business is a strong, enthusiastic, and student-oriented faculty. Faculty members are knowledgeable in their particular disciplines and evidence their interest and enthusiasm for their fields of study by their ability to teach, conduct research, and perform a variety of professional and community services. The school offers two graduate degrees: the Master of Business Administration degree (MBA) and the Master of Accountancy (M.Acy.).

The Master of Business Administration (MBA) degree, over the past decade, has grown in both popularity and impact. Goals of individuals seeking the MBA degree are diverse, ranging from moving ahead in their careers to simply getting started. The rewards of obtaining an MBA degree are equally diverse. Graduates of the MBA program report clearly defined benefits as a result of completing graduate education: broadened perspectives of the business world, improved job performance, realization that there can be different approaches to the same problem, the ability to look at old problems in new ways, and awareness of business areas beyond a limited specialization. Graduate business education can provide the necessary skills, knowledge, and attitudes to enable the professional to cope effectively with the increasingly complex challenges confronting the manager of the future.

The Master of Business Administration program at SWT emphasizes the knowledge and tools needed for professional success and is designed for those individuals who expect to pursue careers in the management of organizations in either the public or private sector. The curriculum provides broad-based, generalized education and is flexible enough to allow development of programs to meet individual needs rather than confining students to narrow, predetermined specializations.

The Master of Accountancy (M.Acy.) program is designed to broaden the educational experience of individuals preparing for a career in the accounting profession. Students explore the social and environmental effects of accounting information on those who rely on it for their decision making needs, including investors, creditors, management, employees, suppliers, customers, the general public, and governmental entities in carrying out their regulatory functions. An important aspect of the program is its focus on the ethical implications of accounting decision making. The M.Acy. program can be used to satisfy the 150-hour education requirement for the Certified Public Accountant (CPA) exam in Texas. This requirement becomes effective on September 1, 1997. The 150-hour requirement includes a 30-hour accounting component and 20 hours of business courses. These courses can be completed at the undergraduate level prior to entering the M.Acy. program or after the student enters the program.

All graduate business courses are offered in the late afternoon and evening to accommodate the needs of the employed student. Classes are small to provide an atmosphere that encourages active discussion with the average class size fewer than 30 students. A limited number of core courses and electives are offered during the summer. Full-time students normally complete their graduate program in one calendar year. Part-time students normally take two courses per semester and complete their program in three years.
Degree Programs

Majors and Degrees Offered:
- Business Administration, MBA
- Accountancy, M.Acy.

Admission Policy

All Applicants. Admission to the Master of Business Administration program and the Master of Accountancy program is selective and designed to identify those applicants who have the ability, interest, and maturity to manage the rigors of the programs. Applicants must hold a baccalaureate degree from a regionally accredited university and achieve a satisfactory admission index. The admission index is determined by a combination of the applicant’s Graduate Management Admission Test (GMAT) score and grade-point average of the first baccalaureate degree. A minimum GMAT score of 400 is required. An acceptable admission index is based on one of two formulas. Using the first formula, the applicant must achieve at least 1,000 points as a result of multiplying 200 times the GPA based on the last 60 semester hours of the first baccalaureate degree and adding the GMAT score. Using the second formula, the applicant must achieve at least 950 points as a result of multiplying 200 times the overall GPA of the first baccalaureate degree and adding the GMAT score. See “Admission Documents” section of this catalog for further information regarding the GMAT.

International Applicants. Additionally, all international applicants are required to have the official results of the Test of Spoken English (TSE) sent to the SWT Graduate School before an application for admission will be considered. A minimum score of 220 is required. Furthermore, international applicants must fulfill the Test of English as a Foreign Language (TOEFL) requirement as identified in the “Admission Documents” section of this catalog.

Major Programs

Master of Business Administration, MBA

The Master of Business Administration degree may be earned under a non-thesis or a thesis plan. Under the non-thesis plan, the student must satisfy the 24 semester hours of background courses, 27 hours of graduate-level core courses, and 9 hours of electives. Under the thesis plan, the student must satisfy the 24 hours of background courses, 27 semester hours of graduate-level core courses, 3 hours of electives, and 6 hours of thesis. An in-depth analysis of a case designed to integrate the MBA core areas is required in both plans and satisfies the university’s requirement for a comprehensive examination.

Background Courses. The purpose of the background courses is to provide a strong base of knowledge for advanced business studies. In addition, the graduate faculty strongly suggest that individuals entering the program have a working knowledge of elementary calculus. Background courses may be waived for students who have completed previous course work addressing current developments in the content area.

The areas of instruction covered by the background courses are specified by the American Assembly of Collegiate Schools of Business (AACSB), the national accrediting council in business administration, and include the following courses:

- Accounting: ACC 5303 or 6 undergraduate hours
- Business Law: BLAW 5308 or 3 undergraduate hours
- Economics: ECO 5302 or 6 undergraduate hours
- Finance: FIN 5307 or 3 undergraduate hours

1 Students must be admitted to the MBA program before enrolling in graduate-level background courses.
Background courses are offered on campus on both a day and night basis. These courses cannot be used to fulfill the 36 hours of MBA core and elective courses. The equivalent undergraduate courses also may be taken at any accredited four-year college or university. Information regarding transfer work is identified in the “Undergraduate-level background course work” sub-section under the “Registration and Course Credit ‘Transfer Credit’” section of this catalog.

Applicants who have not met the admission standards specified above and who must satisfy background course requirements may be admitted as special students to take undergraduate courses only. While under the special student enrollment, students may take or retake the GMAT in an effort to satisfy the admission requirements. See “Categories of Admission ‘Non-Degree Seeking Applicants’” section for further information regarding enrolling as a special student.

Graduate Core Courses. In addition to satisfying the background courses, all MBA students must complete 27 semester hours of graduate core courses. Students must satisfy all prerequisites (including the background course or its equivalent) of a graduate course before enrolling. Business Research Methods, ADS 5390, should be taken in the first semester that a student begins the graduate core course requirements. Administrative Policy, MGT 5313, should be taken in the student’s last semester because it serves as the capstone course for integrating the course material in the MBA program.

Elective Courses. In addition to the 27 semester hours of core courses, students who choose the non-thesis plan must complete 9 hours of graduate-level electives, and students who choose the thesis plan must complete 3 hours of graduate-level electives. Electives are available in accounting, administrative sciences, computer information systems, economics, finance, management, marketing, quantitative methods, and disciplines outside the field of business. Elective hours taken outside of business must be approved by the School of Business Graduate Policies Committee and the Dean of The Graduate School before the student enrolls in the course.

Degree Requirements. In summary, the requirements for the MBA degree program consist of satisfactory completion of the following:

1. The background courses (or their equivalents) in either the baccalaureate degree program or as background requirements in the MBA degree program;
2. Nine MBA core courses as listed below under “Core Courses”;
3. Course work as determined by thesis or non-thesis options:
   a. For students who select the non-thesis plan, three MBA graduate-level elective courses (9 hours), or
   b. For students who select the thesis plan, one MBA graduate-level elective course (3 hours) and a thesis (6 hours credit);
4. The comprehensive examination;
5. Acceptance of the thesis if the thesis degree plan is selected.

1 Students must be admitted to the MBA program before enrolling in graduate-level background courses.
Courses Offered

Background MBA Courses

ECO 5302 Economic Theory and Policy. (3-0) An intensive study of microeconomic and macroeconomic concepts; the price system as it functions under competition, monopoly, monopolistic competition and oligopoly; national income measurement and determination; business cycles; money and banking; monetary policy; fiscal policy and economic stabilization.

ACC 5303 Fundamental Accounting Concepts. (3-0) A conceptual, nonprocedural presentation of introductory financial and managerial accounting. The emphasis is on understanding basic elements of financial statements, the effect of business events on the statements, and the use of accounting information in decision making.

MGT 5304 Management Concepts. (3-0) A survey of theories and concepts with emphasis on the management process, organizational behavior, communication theory, production management, business ethics, and international management.

MKT 5305 Marketing Concepts. (3-0) A functional analysis of the key elements of marketing and distribution. Topics include market planning, products, channels, pricing, promotion, ethics and international marketing.

CIS 5306 Management Information Systems. (3-0) Principles of systems analysis and design of computer-based management information systems. Included are an introduction to the development of a computer-based management information system and a career-oriented application of systems analysis and design.

FIN 5307 Financial Concepts and Analysis. (3-0) Development of the theoretical basis and presentation of the techniques for the acquisition and management of the firm's financial resources. Topics include working capital management, capital budgeting, and internal and external financing decisions.

Prerequisite: ACC 5303.

BLAW 5308 Managerial Environment. (3-0) An introduction to the fundamentals of business law, including the history of law, court systems, constitutional law, contracts, sales, consumer rights, environmental law, administrative law, antitrust and agency law.

QMST 5309 Statistical Methods for Business Analysis. (3-0) A study of probability, sampling methods, statistical inference, analysis of variance, chi-square, multiple and partial regression, and the use of these tools for the purpose of decision making in business and economics.

MBA Core Course Requirements

MGT 5313 Administrative Policy. (3-0) An integrative approach to policy formulation and administration (decision making) to achieve organization objectives.

Should be taken the last semester of a student's MBA program.

MGT 5314 Organizational Behavior and Theory. (3-0) Organizational behavior and structure as influenced by environmental variables and system relationships.

Prerequisite: MGT 5304.

ECO 5316 Managerial Economics. (3-0) The application of economic theory and analysis to the formulation of business policy, including demand analysis, production theory, linear programming, and pricing policy.

Student may take either ECO 5316 or ECO 5378.

Prerequisite: ECO 5302 or equivalent.

MKT 5321 Marketing Management. (3-0) A study of the planning and coordination of marketing functions, marketing policies, and the analysis of marketing administration.

Prerequisite: MKT 5305 or equivalent.
QMST 5332 Quantitative Methods. (3-0) A study of management science/operations research emphasizing theory and applications of evaluative, predictive, and optimizing models as applied to the management of product and service-oriented operations.

Prerequisite: QMST 5309 or equivalent.

QMST 5334 Advanced Statistical Methods for Business. (3-0) The application and interpretation of advanced statistical methods. Topics such as Anova, Multiple Regression Analysis with its extension, Chi-square and non-parametric procedures are examined from conceptual and decision-making points of view. Heavy use of statistical software for data analysis.

Prerequisite: QMST 5309 or equivalent.

ACC 5361 Financial and Managerial Reporting and Analysis. (3-0) Use of accounting information as an aid in executive decision making and control for domestic and international business operations.

Prerequisite: ACC 5303.

ECO 5378 Macroeconomic Theory and Policy. (3-0) An analysis of theory and policy questions relating to the rate of economic growth, the theory of national income, employment and the price level from the point of view of dynamics.

Student may take either ECO 5378 or ECO 5316.

Prerequisite: ECO 5302 or equivalent.

FIN 5387 Managerial Finance. (3-0) Concentrates on the finance function, analysis and budgeting of funds, management of current assets, short- and intermediate-term financing requirements, long-term debt policy and capital structure, capital budgeting, and the concept of cost of capital. Risk and return trade-offs also are studied.

Prerequisite: FIN 5307.

ADS 5390 Business Research Methods. (3-0) Designed to aid graduate students in analyzing reports, evaluating research and in planning research reports. Involves the selection of research problems, sources of data, analysis, presentation, report writing, directed reading, class reports, and a research problem.

Students should take this course in the first semester of graduate core course studies.

MBA Elective Courses

ECO 5310 International Economics. (3-0) Examination of the patterns of trade and finance among nations, integrating the topics of exchange rates, trade barriers, customs unions, and macroeconomic policy into a unified treatment of international economic relations.

Prerequisite: ECO 5302 or equivalent.

MKT 5311 Current Developments in Marketing. (3-0) Advanced study of marketing functions and institutions, marketing structures, strategies, policies, and problems. Students will be given an opportunity to examine developments of special interest to them.

Prerequisite: MKT 5305.

MGT 5312 Seminar in Management. (3-0) Development of philosophy, strategy and tactics in managing an enterprise. Administrative processes common to all enterprises, such as entrepreneurship, business and society, leadership and group behavior in organizations, business ethics, and international management.

ECO 5319 Economics of Labor Markets. (3-0) An analysis of labor markets, including the supply of labor, household production theory, human capital investment, the demand for labor, labor unions, discrimination, and wage differentials.
MKT 5322 Marketing Research Methods. (3-0) An advanced study of the marketing research process to include problem formulation, determination of sources of information and research design, design of data collection forms, design of the sample, collection of the data, analysis and interpretation of the data, preparation of the research report, and oral presentation of the research findings.

ECO 5324 Government Regulation of Business. (3-0) Concentrates on the evolving structure of American industry and the government regulations and agencies which affect the competitive conditions under which all contemporary business must operate.

Prerequisite: ECO 5302 or equivalent.

MGT 5328 Seminar in Labor Relations. (3-0) The study and analysis of labor-management relations in both the private and public sectors. Includes an in-depth and practical coverage of labor and management strategies in the collective bargaining process, contract negotiations, labor disputes, and arbitration.

MGT 5330 Seminar in Personnel Administration. (3-0) A study of current developments and practices in industrial relations, including executive development programs; employee communication; wage administration; labor force and labor market; employee services; human relations and productivity; the labor agreement; settlement of labor disputes and current contributions to personnel theory.

Prerequisite: Management 4373.

ADS 5333 Problems in Business Administration. The student is given the opportunity to work in the field of his/her special interest, particularly in the subjects of accounting, business law, marketing, statistics, finance, and insurance. Course will be conducted by conferences between the student and instructor concerned. Problems will be assigned as nearly as possible for the needs of the individual student.

QMST 5335 Introduction to Forecasting and Simulation. (3-0) Introduction to the concepts and principles of forecasting and simulation techniques as applied to planning and decision making in organizations. Topical coverage includes time series forecasting, causal forecasting, discrete-event simulation, and continuous-event simulation techniques.

Prerequisites: QMST 5332 and 5334.

FIN 5337 International Finance. (3-0) Examination of economic incentives and rationale for multinational firms, exchange rate risk exposure and management, investment decision strategy, and the general economic impact of multinational firm activity.

FIN 5347^2 Topics in Finance. (3-0) Selected topics in investment management. Course may be repeated if topics vary.

FIN 5347A Investment Analysis. (3-0) A critical analysis of decision-making parameters relevant to sound investment principles.

FIN 5347B Portfolio Theory and Capital Markets. (3-0) Integration of basic knowledge of investments and an introduction to the strategies for creating and managing portfolios.

FIN 5347C Real Estate Investment. (3-0) An application of capital budgeting to real estate investment decisions.

CIS 5354 Decision-Support Models in Management. (3-0) Explores the decision-making process, especially how decisions are made when data are imprecise or incomplete and when tasks may not be highly structured. The necessary computer tools are surveyed, including modeling, data management, simulation, decision support systems, and artificial intelligence.

Prerequisite: CIS 5306 or equivalent.

^2 Courses may be repeated with different topic.
CIS 5355 Database Management Systems. (3-0). Explores the concepts, principles, issues and techniques for managing corporate data resources using database management systems. The course includes techniques for analysis, design, and development of database systems, creating and using logical data models, database query languages, and procedures for evaluating database management software. Students will use a relational database management system to develop a management information system.

CIS 5356 Business Telecommunications. (3-0) Explores the technology that is revolutionizing the manner in which business and government conduct their operations and the effects new developments in communication media have on computing systems. This course reflects the current state-of-the-art in data communication networking.

ECO 5357 The Economics of Money and Credit. (3-0) A detailed study of the monetary process and the interaction between money and economic activity. The transmission of monetary policy through the financial markets and financial institutions to the domestic and international business communities and general economy also will be specified.

ACC 5362 Cost and Managerial Accounting Theory. (3-0) A study of recent developments and topics in the area of cost and managerial accounting. Includes a discussion of quantitative techniques and their applicability to accounting problems.

Prerequisite: ACC 5361 or consent of instructor.

ACC 5363 Contemporary Accounting Theory. (3-0) A study of the development of current accounting theory including pronouncements by the FASB. Emphasis is placed on current accounting issues.

Prerequisite: ACC 5361 or consent of instructor.

ACC 5364 Income Tax for Executive Decisions. (3-0) An examination of the effect of income tax on business decisions, including property transactions, how income tax affects forms of business organizations differently, basic and special deductions, tax traps, distributions to owners, and formation and reorganization of corporations.

Prerequisite: ACC 5361 or consent of instructor.

ACC 5365 Accounting and Auditing in Nonprofit Organizations. (3-0) A study of the objectives and standards underlying accounting and auditing practices in nonprofit organizations including governmental entities, colleges and universities, hospitals, and other nonprofit organizations. Topical coverage includes the system of fund accounting, financial report preparation and analysis, and related audit and ethical considerations.

Prerequisite: ACC 5361 or consent of the instructor.

ACC 5366 Taxation of Corporations and Shareholders. (3-0) An examination of the federal tax laws affecting corporations and their owners, particularly with respect to corporate formation, operations, distributions, liquidation, and reorganization. Attention is given to the special problems and opportunities of S corporations, closely held corporations, and corporate groups.

Prerequisites: ACC 5361 and ACC 3327 or consent of the instructor.

ACC 5367 Seminar in Auditing. (3-0) A continuing study of the underlying theory of auditing with an emphasis on professionalism, ethics, and legal liability. Coverage will also extend to the responsibilities and standards for external auditing, internal auditing, governmental auditing and international auditing, including exposure to current developments in these areas. Practical applications will focus on risk assessment, the use of analytical procedures and the use of the computer as an audit tool.

Prerequisites: ACC 5361 and ACC 4313 or equivalent.
FIN 5367 Seminar in Finance. (3-0) Examination of current theoretical and practical issues of finance. Topics may include portfolio theory, dividend policy and valuation; mergers and acquisitions; international financial management; and financial impact of accounting practices, principles, and disclosure.

Prerequisites: ECO 5302 and FIN 5387, or equivalents.

BLAW 5368 Current Topics in Business Law. (3-0) A study of significant legal opinions and rules of interest to the business community.

BLAW 5368A Judicial and Legislative Trends in the Legal Environment of Business. (3-0) An examination of recent court cases and legislation enacted or that may be pending before Congress in order to understand the impact of current laws on business activity.

BLAW 5368B Ethical Conduct in Business. (3-0) An examination of the ethical dimensions of management decision making. Problems are viewed through the lens of a value system determined, in part, by the legal system.

BLAW 5368C The Employment Relationship. (3-0) A study of trends in the rapidly evolving "law of the workplace," with emphasis on how lawmakers attempt to balance the rights and responsibilities of employers and workers.

ADS 5391 Managing the Communication Process. (3-0) The study and application of theory and psychology of managerial communication using written, oral, and technological modes to communicate within the business environment. The course includes the process and product approach to graphics, leadership, problem solving, prioritizing, interviewing, and communicating change.

ADS 5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in ADS 5399B.

ADS 5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Economics (ECO)

5376 Economic Education I. (3-0) Designed to develop basic economic concepts that teachers of K-12 students can understand and use.

5377 Economic Education II. (3-0) Designed to help teachers of K-12 students solve meaningful problems by applying basic economic analysis to various topics.

Prerequisite: Economics 5376 or consent of instructor.

Master of Accountancy, M.Acy.

The number of semester hours required to complete the Master of Accountancy (M.Acy.) degree will depend on whether the student has satisfied the background course requirements prior to entering the program. The program consists of a minimum of 30 semester hours for the undergraduate accounting major and a maximum of 63 semester hours for the nonbusiness undergraduate major.

The Master of Accountancy degree does not have a thesis requirement. The degree program consists of 15 semester hours of background graduate courses, 21 hours of graduate-level core courses (nine of which are accounting courses), and 9 hours of accounting electives. Therefore, 18 of the 30 accounting hours required to sit for the CPA Exam in Texas are provided through graduate courses. Students may need to take an additional 18 hours of background undergraduate courses to qualify for the CPA Exam, 12 in accounting to meet the 30-hour accounting requirement and 6 in business law.

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2 Courses may be repeated with different topic.
3 Economics 5376 and Economics 5377 may not be counted as elective MBA courses.
4 May be repeated for additional credit with the approval of the Center for Economic Education.
Background Courses. The purpose of background courses is to provide a strong base of knowledge for advanced business and accounting studies. In addition, the graduate faculty strongly suggest that individuals entering the program have a working knowledge of elementary calculus. Background courses may be waived for students who have completed previous course work addressing current developments in the content area. The background course requirement is comprised of the following courses:

**Graduate Level**
- Accounting: ACC 5303\(^5\) or 6 undergraduate hours
- Business Law: BLAW 5308\(^5\) or 3 undergraduate hours
- Economics: ECO 5302\(^5\) or 6 undergraduate hours
- Finance: FIN 5307\(^5\) or 3 undergraduate hours
- Management: MGT 5304\(^5\) or 3 undergraduate hours
- Statistics: QMST 5309\(^5\) or 3 undergraduate hours

**Undergraduate Level**
- ACC 3313: Intermediate Accounting I 3 semester hours
- ACC 3314: Intermediate Accounting II 3 semester hours
- Undergraduate acct. electives 6 semester hours
- BLAW 3362: Commercial Law 3 semester hours

Background courses are offered on campus on both a day and night basis. These courses cannot be used to fulfill the 30 hours of M.Acy. core and elective courses. The equivalent undergraduate courses also may be taken at any accredited four-year college or university. Information regarding transfer work is identified in the “Undergraduate-level background course work” sub-section under the “Registration and Course Credit ‘Transfer Credit’” section of this catalog.

Applicants who have not met the admission standards specified above and who must satisfy background course requirements may be admitted as special students to take undergraduate courses only. While under the special student enrollment, students may take or retake the GMAT in an effort to satisfy the admission requirements. See “Categories of Admission ‘Non-Degree Seeking Applicants’” section for further information regarding enrolling as a special student.

**Graduate Core Courses.** In addition to satisfying the background courses, all M.Acy. students must complete 21 semester hours of graduate core courses, nine hours of which are in accounting courses. Students must satisfy all prerequisites of a graduate course before enrolling. These prerequisites include the background course or its equivalent and undergraduate accounting courses, if applicable. Business Research Methods, ADS 5390, should be taken in the first semester that a student begins the graduate core course requirements. Accounting Policy, ACC 5368, should be taken in the student’s last semester because it serves as the capstone course for integrating the course material in the M.Acy. program.

**Elective Courses.** In addition to the 21 semester hours of core courses, students must complete 9 hours of graduate-level accounting electives. Students must satisfy all prerequisites of an elective course before enrolling, including any undergraduate accounting prerequisites. Students should carefully review the undergraduate accounting prerequisites for desired graduate accounting elective courses and register for the appropriate prerequisites which also can fulfill their undergraduate background course requirements.

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\(^5\)Students must be admitted to the M.Acc. program before enrolling in graduate-level background courses.
**Degree Requirements.** In summary, the requirements for the M.Acy. degree program consist of satisfactory completion of the following:

1. The background graduate-level courses (or their equivalents completed in a baccalaureate degree program);
2. The background undergraduate-level courses (or their equivalents) completed either in a baccalaureate degree program in business or as part of the background course requirements in the M.Acy. program. These courses are needed to fulfill the State's 30-hour accounting requirement to sit for the CPA Exam in Texas. The 6-hour business law requirement is needed to prepare for that part of the exam. Students should consult with the Accounting Department Chair prior to selecting these courses;
3. Seven M.Acy. core courses, three of which are in accounting. These courses are listed below under "Core Courses";
4. Three graduate accounting elective courses as listed below under "Elective Courses."

**Courses Offered**

**Background Graduate Business Courses**

**ECO 5302 Economic Theory and Policy.** (3-0) An intensive study of microeconomic and macroeconomic concepts; the price system as it functions under competition, monopoly, monopolistic competition and oligopoly; national income measurement and determination; business cycles, money and banking; monetary policy; fiscal policy and economic stabilization.

**ACC 5303 Fundamental Accounting Concepts.** (3-0) A conceptual, nonprocedural presentation of introductory financial and managerial accounting. The emphasis is on understanding basic elements of financial statements, the effect of business events on the statements, and the use of accounting information in decision making. May not count as an elective M.Acy. course.

**MGT 5304 Management Concepts.** (3-0) A survey of theories and concepts with emphasis on the management process, organizational behavior, communication theory, production management, business ethics, and international management.

**FIN 5307 Financial Concepts and Analysis.** (3-0) Development of the theoretical basis and presentation of the techniques for the acquisition and management of the firm's financial resources. Topics include working capital management, capital budgeting, and internal and external financing decisions.

Prerequisite: ACC 5303.

**BLAW 5308 Managerial Environment.** (3-0) An introduction to the fundamentals of business law, including the history of law, court systems, constitutional law, contracts, sales, consumer rights, environmental law, administrative law, antitrust and agency law.

**QMST 5309 Statistical Methods for Business Analysis.** (3-0) A study of probability, sampling methods, statistical inference, analysis of variance, chi-square, multiple and partial regression, and the use of these tools for the purpose of decision making in business and economics.

**M.Acy. Core Course Requirements**

**MGT 5314 Organizational Behavior and Theory.** (3-0) Organizational behavior and structure as influenced by environmental variables and systems relationships.

Prerequisite: MGT 5304
QMST 5334 Advanced Statistical Methods for Business. (3-0) The application and interpretation of advanced statistical methods. Topics such as Anova, Multiple Regression Analysis with its extension, Chi-square and non-parametric procedures are examined from conceptual and decision-making points of view. Heavy use of statistical software for data analysis.

Prerequisite: QMST 5309 or equivalent.

ACC 5361 Financial and Managerial Reporting and Analysis. (3-0) Use of accounting information as an aid in executive decision making and control for domestic and international business operations.

Prerequisite: ACC 5303.

ACC 5365 Accounting and Auditing in Nonprofit Organizations. (3-0) A study of the objectives and standards underlying accounting and auditing practices in nonprofit organizations including governmental entities, colleges and universities, hospitals, and other nonprofit organizations. Topical coverage includes the system of fund accounting, financial report preparation and analysis, and related audit and ethical considerations.

Prerequisite: ACC 5361 or consent of the instructor.

ACC 5368 Accounting Policy. (3-0) An integrative, case method approach to financial, managerial, and nonprofit accounting with particular emphasis on the use of accounting information for decision making and related ethical considerations. Should be taken in the last semester of the student's M.Acy. program.

FIN 5387 Managerial Finance. (3-0) Concentrates on the finance function, analysis and budgeting of funds, management of current assets, short- and intermediate-term financing requirements, long-term debt policy and capital structure, capital budgeting, and the concept of cost of capital. Risk and return trade-offs also are studied.

Prerequisite: FIN 5307.

ADS 5390 Business Research Methods. (3-0) Designed to aid graduate students in analyzing reports, evaluating research and in planning research reports. Involves the selection of research problems, sources of data, analysis, presentation, report writing, directed reading, class reports, and a research problem.

Students should take this course in the first semester of graduate core course studies.

M.Acy. Elective Courses

ACC 5362 Cost and Managerial Accounting Theory. (3-0) A study of recent developments and topics in the area of cost and managerial accounting. Includes a discussion of quantitative techniques and their applicability to accounting problems.

Prerequisite: ACC 5361 or consent of the instructor.

ACC 5363 Contemporary Accounting Theory. (3-0) A study of the development of current accounting theory including pronouncements by the FASB. Emphasis is placed on current accounting issues.

Prerequisite: ACC 5361 or consent of the instructor.

ACC 5366 Taxation of Corporations and Shareholders. (3-0) An examination of the federal tax laws affecting corporations and their owners, particularly with respect to corporate formation, operations, distributions, liquidation, and reorganization. Attention is given to the special problems and opportunities of S corporations, closely held corporations, and corporate groups.

Prerequisites: ACC 5361 and ACC 3327 or consent of the instructor.

ACC 5367 Seminar in Auditing. (3-0) A continuing study of the underlying theory of auditing with an emphasis on professionalism, ethics, and legal liability. Coverage will also extend to the responsibilities and standards for external auditing, internal auditing, governmental auditing and international auditing, including exposure to cur-
rent developments in these areas. Practical applications will focus on risk assessment, the use of analytical procedures and the use of the computer as an audit tool.

Prerequisites: ACC 5361 and ACC 4313 or equivalent.

Graduate Faculty

Abrahamson, Royce Lynnwood, Professor of Management. B.S.Ed., M.Ed., Ph.D., University of Texas at Austin.

Bell, James David, Professor of Administrative Sciences and Associate Dean of the School of Business. B.S., M.Ed., Kent State University; Ph.D., University of Akron.

Bible, Jonathan David, Professor of Business Law. B.A., M.A., J.D., University of Texas at Austin.

Blankmeyer, Eric Cole, Professor of Economics. B.S., Georgetown University; M.A., Ph.D., Princeton University.

Carman, Douglas Gary, Professor of Economics. B.B.A., M.A., Ph.D., Southern Methodist University.

Charles, Joni Seaton James, Assistant Professor of Economics. B.A., Howard University; M.S., Ph.D., Purdue University.

Chiodo, Beverly Ann, Professor of Administrative Sciences. B.B.A., Baylor University; MBA, Texas Tech University; Ph.D., Texas A&M University.

Cook, James Randolph, Professor of Computer Information Systems and Chair of the Department of Computer Information Systems and Administrative Sciences. B.B.A., MBA, West Texas State University; Ph.D., Texas Tech University. C.D.P., C.C.P.

Eure, Jack Douglas, Jr., Professor of Marketing. B.B.A., MBA, University of North Texas; Ph.D., Louisiana State University.

Garnett, Robert Hendrie, Associate Professor of Finance. B.B.A., MBA, Tulane University; M.A., Ph.D., University of Pennsylvania.

Gowens, Paul Ray, Professor of Economics and Dean of the School of Business. B.A., M.S., Baylor University; Ph.D., University of Mississippi.

Halatin, Theodore Joseph, Professor of Management. B.A., Montclair State College; M.S., University of Colorado; Ph.D., Texas Tech University.

Humphrey, Joseph Lee, Professor of Accounting. B.B.A., MBA, Ph.D., Texas Tech University. C.P.A.

Hunnicutt, Garland Gail, Professor of Management. B.A., B.B.A., University of Texas at Austin; MBA, Ph.D., University of Arkansas.

Johnston, Walter Edward, Professor of Administrative Sciences. B.S., M.S., Ph.D., Texas A&M University.

Keeffe, Michael James, Associate Professor of Management. B.A., MBA, Southwest Texas State University; Ph.D., University of Arkansas.

Kishan, Ruby Pandey, Assistant Professor of Economics. B.A., Bhagalpur University; M.S., Ph.D., Texas A&M University.

Koogler, Paul Robert, Professor of Accounting. B.S.B.A., M.Acct., Ph.D., University of Arizona. C.P.A.

Lee, Orland Sherer, Associate Professor of Accounting. B.S., M.S., Ph.D., Oklahoma State University. C.P.A.
Martin, Roy, Professor of Computer Information Systems. B.B.A., MBA, West Texas State University; Ph.D., Texas Tech University.

McClung, Bruce Alan, Assistant Professor of Economics. B.A., Southwest Texas State University; Ph.D., Texas A&M University.


Mehta, Mayur Ravishanker, Associate Professor of Computer Information Systems. B.Tech., Indian Institute of Technology; MBA, Ph.D., University of North Texas.

Meixner, Wilda Furr, Professor of Accounting. B.B.A., Sul Ross State University; MBA, Southwest Texas State University; Ph.D., Texas A&M University. C.P.A.

Middlebrook, Billy James, Professor of Management. B.S., B.A., Ohio State University; MBA, George Washington University; Ph.D., University of North Texas.

Minifie, Jan Roberta, Associate Professor of Management. B.S., Bowling Green State University; MBA, Ph.D., University of South Carolina.

Mintz, Steven Michael, Professor of Accounting and Chair of the Department of Accounting. B.S., Long Island University; MBA, Syracuse University; D.B.A., George Washington University. C.P.A.

Moffett, Katherine Southerland, Assistant Professor of Accounting. B.B.A., University of Central Arkansas; MBA, University of Texas at Arlington; Ph.D., University of North Texas. C.P.A.

Mogab, John William, Associate Professor of Economics. B.A., Blackburn College; M.A., Ph.D., University of Tennessee.

Montondon, Lucille Marie, Assistant Professor of Accounting. B.S., Lamar University; MBA, Ph.D., University of Houston.

Morgan, Celia Ann, Professor of Economics and Chair of the Department of Finance and Economics. B.B.A., University of Texas at Austin; M.A., Ph.D., University of Houston.


Oliver, Joseph Robert, Professor of Accounting. B.S., B.A., M.A., Ph.D., University of Missouri. C.P.A.

Olney, Robert John, Professor of Administrative Sciences, Associate Dean of the School of Business, and Director of Graduate Business Programs. B.S.B.A., John Brown University; M.Ed., Northeastern Oklahoma State University; Ph.D., University of Oklahoma.

Patterson, Larry Truman, Professor of Marketing. B.B.A., MBA, Ph.D., Texas Tech University.

Piersol, Darrell Thomas, Professor of Management. Ph.B., Illinois Wesleyan University; M.S., Ph.D., Purdue University.

Ploeger, Floyd David, Associate Professor of Computer Information Systems. B.A., B.S., M.A., Ph.D., University of Texas at Austin.

Roderick, Joan Chadwick, Associate Professor of Administrative Sciences. B.S., M.S., Ed.D., Oklahoma State University.

Ross, John Kelzy, Associate Professor of Management. B.B.A., Texas Wesleyan College; MBA, University of Dallas; Ph.D., University of North Texas.
Sanders, Donald Edward, Associate Professor of Business Law. B.B.A., Texas Tech University; J.D., University of Texas at Austin.

Savage, Vernon Howard, Professor of Economics. B.A., M.A., University of North Texas; Ph.D., University of Texas at Austin.

Shah, Vivek Pramod, Associate Professor of Administrative Sciences. B.S., University of Bombay; MBA, Tarleton State University, Ph.D., University of North Texas.

Sivitanides, Marcos Panicou, Assistant Professor of Computer Information Systems. B.A., M.B.A., Ph.D., University of Texas at Austin.

Smith, Howard Gromel, Associate Professor of Accounting. B.A., State University of New York; B.A., MBA, California State University at Fullerton; Ph.D., Texas Tech University. C.P.A.

Stephenson, Stanley Doane, Associate Professor of Administrative Sciences. B.S., Memphis State University; M.S., Oklahoma State University; Ph.D., University of Hawaii.

Stutts, Mary Ann, Professor of Marketing. B.B.A., University of Texas at Austin; MBA, Ph.D., Texas A&M University.

Stutzman, James Richard, Associate Professor of Finance. B.A., University of Texas at Austin; M.A., MBA, Ph.D., University of Houston.

Taylor, Ruth Arleen, Associate Professor of Marketing. B.S., University of Houston; M.Ed., Texas Christian University; Ph.D., University of North Texas.

Wilson, Wilton Leland, Professor of Marketing. B.B.A., M.S., Texas A&I University; Ph.D., University of Arkansas.

Yeargan, Howard Reid, Associate Professor of Economics. B.S., M.S., Texas A&M University.

Yeary, James Donald, Professor of Accounting. B.B.A., M.S.A., Texas Tech University; Ph.D., Oklahoma State University. C.P.A.
Degree Programs

Majors and Degrees Offered:
- Elementary Education, M.A., M.Ed.
- Reading Education, M.Ed.
- Secondary Education, M.A., M.Ed.
- Special Education, M.Ed.

Major Programs
The Department of Curriculum and Instruction offers a variety of degrees and programs. Before proceeding into any field of education at SWT, the degree applicant should inquire as to certification requirements associated with or prerequisite to the degree. You must keep in mind that certification requirements and graduate degree requirements may not be related and that the satisfactory completion of degree requirements may not always lead directly to certification.

The departmental Master of Education degree offerings each consist of a minimum of 36 hours without the thesis. Semester hour requirements vary within the major and minor areas. Some courses are scheduled at night to enable working students to complete a degree and/or certification. It is also possible to earn the degree of Master of Arts in elementary and secondary education with a minimum of 30 semester hours including the thesis.

The various majors in teacher education, other than those in special education and reading education, who apply for the Master of Education degree must include a research course: Curriculum and Instruction 5390 or Curriculum and Instruction 5391. As a part of the requirements of each course, a formal report will be prepared in conformity with instructions given in the manual for writing the thesis.

Background. In general, majors in any field of education who have not completed student teaching must complete this course as a background requirement or obtain a waiver from the Department of Curriculum and Instruction on the basis of teaching experience.

Majors
- **Elementary Education.** This major usually consists of 24-27 hours in elementary education and an academic minor of 9-12 hours or a composite minor grouped under the title of methods and materials. Emphasis on bilingual education, early childhood, or gifted and talented is offered within this major.
- **Reading Education.** This major consists of a minimum of 39 hours in a composite program consisting of 24 hours in reading education and a minor of 15 hours from linguistics, sociology, psychology, special education, and supervision. Completion of the Master of Education program and three years’ teaching experience qualify the graduate for certification as a Texas Professional Reading Specialist. Reading Education majors pursuing the Master of Education may, as an option, select a 15-semester hour minor in developmental education. This program also permits students to minor in reading education.

In addition to meeting Graduate School admission requirements as identified in the forward section of this catalog, to be considered for admission to the reading education program you must submit the following data for review by the Graduate Reading Education Admission Committee:
1) Application form supplied by reading education program;
2) Three letters of reference from professional sources;
3) Copy of Graduate Record Examination score; and
4) Statement concerning your experience and purpose for entering the reading education program.

Also, after you have completed 12 semester hours in prescribed courses, you must complete a program examination.

**Secondary Education.** The 36-hour Master of Education with a major in secondary education usually consists of 21-24 semester hours in secondary education and 12-15 semester hours in the academic minor. Degree outlines in secondary education focus on general secondary education or gifted and talented. Students who do not have a teaching certificate will be required to complete specific background courses before beginning graduate course work.

**Special Education.** The 36-hour Master of Education with a major in special education consists of 24-semester hours in special education. A 12-semester hour minor is required.

**Endorsements, Certificates, and Delivery Systems:**
Endorsements and certifications are available in addition to majors and concentrations associated with degree programs. These include Bilingual/Bicultural, Early Childhood, Reading Specialist, and Special Education. Inquiries regarding any of these should be directed to the Chair of the Department of Curriculum and Instruction. Satisfactory performance on a State Board of Education test is required for provisional or professional certificates in education. State law also requires that no one convicted of a felony may be certified to teach in Texas.

**Bilingual Education Endorsement.** The following courses constitute an endorsement in bilingual education: Curriculum and Instruction 5312, Curriculum and Instruction 5378L, Linguistics 5311, Linguistics 5315.

**Early Childhood Education Endorsement.** The following courses constitute an endorsement in early childhood education: Early Childhood Education 4310, Early Childhood Education 5318, Early Childhood Education 5319, Early Childhood Education 5330, and Curriculum and Instruction 4378K.

**Educational Diagnostician Certificate.** This professional certificate is based on a master's degree and three years' documented teaching experience. Courses required are: Special Education 5325, Special Education 5326, Special Education 5327, Special Education 5334, Special Education 5360, Special Education 5365, Special Education 5375, Special Education 5389, Psychology 5370, Psychology 5371, Educational Psychology 5305, and Educational Psychology 5376.

**Generic Special Education Delivery System.** These courses constitute a delivery system in generic special education: Special Education 5325, Special Education 5326, Special Education 5327, Special Education 5334, Special Education 5360, Special Education 5365, Special Education 5375, and Special Education 5389.

**Gifted and Talented Endorsement.** These courses constitute an endorsement in gifted and talented: Curriculum and Instruction 5308, Curriculum and Instruction 5309, Curriculum and Instruction 5310, Curriculum and Instruction 5311, and Educational Psychology 5307.

**Severely and Profoundly Handicapped Endorsement.** These courses constitute an endorsement in severely and profoundly handicapped: Special Education 5345, Special Education 5346, and Special Education 5668.

**Severely Emotionally Disturbed and Autistic Endorsement.** These courses constitute an endorsement in severely emotionally disturbed and autistic: Special Education 5311, Special Education 5313, and Special Education 5314.
Courses Offered

Curriculum and Instruction (CI)

51781 Workshop in Education. (1-0) A workshop in innovative techniques or materials offered either on-campus or off-campus in approved sites. Designed to give classroom teachers college credit for in-service-type training; course gives an opportunity for teachers to upgrade their skills and knowledge. A letter following the course number will indicate the areas of emphasis according to this coding: 51781 Elementary, 5178J Secondary, 5178K Early Childhood, 5178L Bilingual.

52781 Workshop in Education. (2-0) This workshop in innovative educational techniques or materials is offered either on-campus or off-campus in approved sites. Designed to give classroom teachers college credit for in-service-type training, skills, and knowledge. A letter following the course number will indicate the areas of emphasis according to this coding: 52781 Elementary, 5278J Secondary, 5278K Early Childhood, 5278L Bilingual.

5302 Methods and Materials for Teaching the Bilingual Pupil. (3-0) Designed to assist the elementary teacher in selecting appropriate teaching strategies and materials for meeting the learning needs of the limited English proficient student. Program organization, materials, and resources will be emphasized.

5303 Teaching Math in the Elementary School. (3-0) This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress.

5306 Evaluative Techniques for the Classroom Teacher. (3-0) An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, school evaluation, sociometric techniques and their use, and reporting to parents.

5308 History and Philosophy of Teaching the Gifted/Talented. (3-0) Examination of the history and philosophy for teaching gifted/talented students. Focus will be on characteristics, identification, and special needs. Theoretical models will be studied.

5309 Methods and Materials for Teaching the Gifted/Talented. (3-0) Organization of activities for the gifted/talented with emphasis on program content, materials, resources, guidance, and development of related curriculum materials.

5310 Creativity: Theories, Models, and Applications. (3-0) An awareness of the concepts in creative thinking and creative crafting are developed. Topics addressed include instruments and techniques for identifying creative potential, theories of creativity, theoretical models, strategies for enhancing creativity in content areas, and evaluation of resources and materials.

5311 Practicum in Gifted Education. (3-0) The application of knowledge, skills, and competencies from the basic courses are applied in a university or school setting. A diagnostic-prescriptive approach is used. Strategies utilized include designing and evaluating instructional materials, assessing competencies and planning appropriate instruction.

5312 Elementary Language Arts: Current Trends. (3-0) A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts.

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1 May be repeated once for additional credit at discretion of the chair of the department.
5313 Human Growth and Development I. (3-0) Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual pupils according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationship.

5314 Human Growth and Development II. (3-0) For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual pupils by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development.

5317 Teaching Strategies for Elementary Teachers: Alternative Models. (3-0) Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology.

5318 Educational Uses of Microcomputers. (3-0) This course provides hands-on experience with a variety of educational uses of microcomputers in elementary and secondary schools. Review of relevant research and discussion of current issues will also be included. Class assignments will involve the use of the Apple microcomputer.

5320 Advanced Instructional Technology. (3-0) The course will provide the student with a systematic approach to the design of instruction and will specifically emphasize the incorporation of appropriate media (i.e., audio-video, computer-based, etc.). Emphasis on the selection of appropriate media for delivering instruction based on instructional objectives, the learner, and local resources.

5326 The Elementary School Curriculum. (3-0) Principles of curriculum development and organization, selection of curriculum experiences, planning of various types of units and overview of curriculum outcomes in various areas, guiding school experiences and unit activities, and actual practice in preparing curriculum materials.

5327 Principles and Practices in the Elementary School. (3-0) Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation.

5328 Elementary Social Studies: Curriculum Problems. (3-0) Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends.


5333 The Secondary Curriculum. (3-0) A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles of curriculum making, and techniques of curriculum construction and installation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; attention to significant researches in curriculum development.

5336 Methods and Materials for Teaching English as a Second Language. (3-0) Identification and use of English as a Second Language (ESL) materials and teaching strategies for teaching ESL as an integrated process including first and second language acquisition.
5363 Strategies for Improving Secondary Teaching. (3-0) Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required.

5372 Philosophical Foundations of Education. (3-0) An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master’s degree students without previous graduate work in philosophy or philosophy of education.

5378 Problems in Education. (3-0) Individual problems not related to thesis or research problems. Designed to place emphasis on selected areas of study. A letter following the course number will indicate the area of emphasis according to this code: 5378F Elementary, 5378S Secondary, 5378B Bilingual.

5387 Bilingual Education: Principles and Practices. (3-0) A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs.

5390 Research Seminar in Elementary Education. (3-0) Each student will be given an opportunity to choose for study special problems to fit his/her particular needs and interests; research procedures needed in the preparation of thesis or other research reports. To demonstrate his/her mastery of these procedures, the student will present a research paper on a selected problem.

5391 Research Seminar in Secondary Education. (3-0) Problems in secondary education; emphasis on research procedure. A research paper is required of each student.

539A Thesis. This course represents a student’s initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 539B.

539B Thesis. This course represents a student’s continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Early Childhood Education (ECE)

5318 Advanced Early Child Development: Readiness for Learning and Language Abilities. (3-0) A study of the cognitive, affective, and psychomotor factors bearing on the young child’s readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience.

5319 Curriculum and the Young Child, I (Kindergarten). (3-0) Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices which may be employed in the total education of young children.

5330 Curriculum and the Young Child, II (Kindergarten). (3-0) Advanced study of curriculum and materials used in educational programs for young children.

5380 Independent Study in Early Childhood. (3-0) In-depth study of selected topics of current needs of interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department.

Reading (RDG)

5320 Psychology in Teaching Reading. (3-0) A detailed study of the psychological bases of the reading process: the perceptual nature of reading, learning principles, sensory aspects, physiological correlates, phoneme/grapheme correspondence, personality factors, concept formation.

1 May be repeated once for additional credit at discretion of the chair of the department.
5322 Teaching Reading in the Elementary and Middle Schools. (3-0) This course is for teachers and specialists interested in reading from the early preparatory period through the middle grades. The course includes: curriculum in reading, instructional assessment, selection of materials, and alternative instruction and management procedures for obtaining reading success.

5323 Principles and Techniques of Reading Assessment. (3-0) Methods for ongoing assessment of learner progress in reading, preschool - adults, including learners with reading difficulties. Provides for observation, demonstrations, and supervised practice in the use of standardized, informal, and holistic assessment techniques.
Prerequisites: Reading major: Reading 5320, Reading 5322, and Reading 5324; Reading minor: Reading 5322 or Reading 5324.

5324 Teaching Reading in Middle and Secondary Schools. (3-0) Covers topics for teaching developmental reading in middle and secondary schools. Topics include extension of reading skills beyond primary grades; classroom assessment and development of reading strategies; developing flexibility, critical thinking, lifelong reading attitudes, and interests; strategies for content reading and study skills, remedial reading strategies; and supervision of secondary reading programs.

5331 Literacy Methods for Linguistically and Culturally Diverse Students. (3-0) Deals with the linguistic and reading problems unique to pupils whose native language or dialect is other than standard Middle-American English, with particular emphasis on pupils of Afro-American or Mexican-American heritage. Other topics include: teaching English as a second language, teaching reading in a bilingual school setting, creating innovative methods and materials for bilingual pupils.

5332 Remediation of Reading Disabilities. (3-0) Methods and materials for teaching pupils with specific reading disabilities. Includes interpreting diagnostic data, planning and organizing a remedial program, the study of remedial techniques, evaluation of remedial approaches, and required hours of clinical practice.
Prerequisite: For Reading Education majors or minors: Reading 5322, Reading 5323, or Reading 5324.

5335 Clinical Practicum and Internship in Reading Disabilities. (3-0) Advanced course on the clinical application of the nature, causes, and remediation of reading disabilities; it is conducted on campus or in an approved school setting. Course is designed to help reading teachers develop skills in testing, interviewing, analyzing case history findings, writing remedial prescriptions, teaching reading by using corrective or remedial procedures, and reporting to parents and schools. In addition to lectures and seminars, students are required to have a minimum of 50 clock hours of supervised clinical practice.
Prerequisites: One year or more of full-time teaching, Reading 5323, Reading 5324, and consent of instructor.

5340 Connecting Reading and Writing in the Classroom. (3-0) Course includes an in-depth study of the interrelationship between reading and writing and their connections to oral language and thinking. Practical applications include the organization and components of the workshop classroom, integration of skills and holistic instruction, appropriate assessment of children's adolescent literature, and thematic planning for both elementary and secondary teachers.

5345 Classroom Diagnostic-Prescriptive Reading Instruction. (3-0) Course provides an introduction to classroom reading diagnosis, prescription, and corrective techniques applicable to problem readers in the regular classroom. Informal diagnostic techniques and group corrective techniques will be emphasized.
Prerequisite: Graduate or undergraduate reading methods course, or instructor's permission.
5380 **Independent Study in Reading Research.** (3-0) In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester.

5395 **Teaching Reading to Older Students and Adults.** (3-0) Deals with teaching reading to older students. Topics to be included cover the special reading needs of older high risk students, competent and gifted students, and adult basic education students. Topics include: the nature of the learners; appropriate assessment strategies; methodologies; instructional materials and resources; and the groups, schools, and agencies which service these students.

6330 **Psychology of Language.** (3-0) Development of language in children with emphasis on language perception and production and the task of learning verbal behavior. See Psychology 5330.

**Special Education (SPED)**

5310 **Selected Topics in Special Education.** (3-0) In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department.

5311 **Survey of Serious Emotional Disturbance.** (3-0) Examination of historical perspectives; conceptual models for explaining emotional disturbance; characteristics of seriously emotionally disturbed children and youth; and various academic and instructional strategies used with seriously emotionally disturbed students.

5312 **Specialized Assessment Techniques for Severely Emotionally Disturbed and Autistic.** (3-0) Examination of specialized assessment methods and instruments for use with classroom programming for severely emotionally disturbed and autistic students.

5313 **Intervention Strategies for Serious Emotional Disturbance.** (3-0) Specific strategies for effective educational assessment and instructional programming for seriously emotionally disturbed students.

5314 **Management of Autistic Behavior.** (3-0) Examination of etiological theories, characteristics, specialized assessment methods, and specific instructional strategies pertaining to the management of autistic children/youth.

5315 **Ecological Programming for Severely Emotionally Disturbed and Autistic.** (3-0) Course is designed to examine community and family issues pertaining to severely emotionally disturbed and autistic individuals.

5316 **Practicum in Severely Emotionally Disturbed and Autistic.** (3-3) Observation and supervised teaching with severely emotionally disturbed and autistic students; development, administration, and evaluation of assessment tools; planning learning sequences for children.

Prerequisites: Special Education 5313, Special Education 5314, Special Education 5315 or consent of the instructor.

5320 **Development and Intervention in the Early Childhood/Handicapped Classroom.** (3-0) Overview of childhood development relating to the handicapped infant and pre-schooler. Development, diagnostic procedures, and specialized intervention approaches for this population.

5325 **Developmental Perspectives of the Mildly Disabled.** (3-0) In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process.

5326 **Educational Strategies for the Mildly Disabled.** (3-0) Assessment, basic organization of programs, instructional aids and materials that are appropriate for the individual differences characteristic of exceptional learners. Special emphasis on a language arts curriculum.

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2 May be repeated with different topics for additional credit.
5327 Teaching the Mildly Disabled Student. (3-0) Instructional approaches and techniques for effective adaptation of curriculum, methods, and materials for exceptional learners. Special emphasis on specific strategies that are appropriate for a mathematics curriculum.

5334 Assessment and Evaluation of Exceptional Students. (3-0) Procedures for evaluating and prescribing treatment for mildly disabled students. Special emphasis placed on developing sensitivity in formal and informal observation of such students.

5345 Educational and Psychological Problems of the Severely and Profoundly Handicapped. (3-0) Identification and translation of educational and psychological behaviors of the severely and profoundly handicapped into developmental categories and applied instructional modification processes.

5346 Methods and Materials for the Severely and Profoundly Handicapped. (3-0) Techniques and materials for individualized training and enrichment for the severely and profoundly handicapped. Special emphasis on behavior modification, language and motor development.

5360 The Education of Exceptional Children. (3-0) A survey course to orient students to the program and problems in the education of all types of exceptional children. Field trips, lectures, and films supplement class lectures.

5365 Education of the Neurologically Impaired. (3-0) Basic characteristics of physical disorders resulting in motor dysfunction and/or learning disabilities with special emphasis on disorders deriving from neurological impairment; general principles for educating pupils with such impairments in public schools. Visiting lecturers from medical and para-medical fields will assist in teaching this course.

5375 Behavioral Expectations and Management in the Home and School. (3-0) Behavior management strategies and techniques to prevent, alter, improve, and maintain social, emotional, and academic behaviors of exceptional learners in both the home and school environments. Special emphasis on environmental engineering, management of surface behavior, behavior modification techniques, and appropriate referral sources as they apply to exceptional learners and their parents.

5389 Internship Practicum. (3-0) Design and implementation of educational programs for exceptional students in content and vocational areas; determination of learner and weaknesses, instructional modification, and behavior control; supervised clinical practice.

Prerequisites: Special Education 5360, Special Education 5325, Special Education 5326, and Special Education 5327.

5668 Practicum in Severely and Profoundly Handicapped. (6-3) Observation and supervised teaching with the severely and profoundly handicapped; development, administration and evaluation of assessment tools; planning learning sequences for children.

Prerequisites: Special Education 5345 and Special Education 5346, or consent of instructor.

Graduate Faculty

Barnes, Susan Jalene Geron, Assistant Professor of Curriculum and Instruction and Assistant Dean of the School of Education. B.S.E., University of Texas at Austin; M.A., University of Arkansas; Ph.D., University of Texas at Austin.

Bechtol, William Milton, Professor of Curriculum and Instruction. B.S., M.Ed., Ed.D., Miami University.

Byrum, David Carol, Assistant Professor of Curriculum and Instruction. B.A., Christopher Newport College; M.A., University of Southern Mississippi; Ph.D., University of Oklahoma.
Caverly, David Charles, Associate Professor of Curriculum and Instruction. B.Ed., University of Toledo; M.Ed., Kent State University; Ph.D., Indiana University.

Dolezal, Charles Henry, Professor of Curriculum and Instruction and Chair of the Department of Curriculum and Instruction. B.S., M.Ed., Ph.D., University of Texas at Austin.

Dorsey, Oscar Lee, Professor of Curriculum and Instruction. B.S., Abilene Christian College; M.Ed., Ph.D., Texas A&M University.

Fite, Kathleen Elizabeth, Associate Professor of Curriculum and Instruction. B.S. in Ed., M.Ed., Southwest Texas State University; Ed.D., University of North Texas.

Gaddis, Marilyn Tyler, Associate Professor of Curriculum and Instruction. B.A., Pomona College; M.A., Claremont Graduate School; Ph.D., University of Wisconsin.

Gillis, Marguerite Kapualani, Professor of Curriculum and Instruction. B.S., Bridgewater College; M.Ed., University of Guam; Ed.D., West Virginia University.

Hammond, Dick Earl, Professor of Curriculum and Instruction. A.B., M.A.T., M.S., Indiana University; Ed.D., University of Arkansas.

Hatcher, Barbara Ann, Professor of Curriculum and Instruction and Assistant Dean of Graduate Studies and Research. B.S., University of Texas at Austin; M.Ed., Southwest Texas State University; Ed.D., University of North Texas.

Huling-Austin, Leslie Leigh, Associate Professor of Curriculum and Instruction. B.A., Angelo State University; M.S., University of North Texas; Ed.D., Texas Tech University.

Joseph, Dennis George, Assistant Professor of Curriculum and Instruction. B.A., M.Ed., Nicholls State University; Ed.D., University of Houston.

Moore, Joe Midge, Associate Professor of Curriculum and Instruction. B.S., M.Ed., Ed.D., University of North Texas.

Newberry, William Clarke, Associate Professor of Curriculum and Instruction. B.S., Southwest Texas State University; M.Ed., Stephen F. Austin State University; Ed.D., University of Texas at Austin.

Nicosia, Ralph Timothy, Professor of Curriculum and Instruction. B.S., M.Ed., Ed.D., University of North Texas.

Rodriguez, Carlos Gonzalez, Associate Professor of Curriculum and Instruction. B.S.Ed., M.Ed., Southwest Texas State University; Ph.D., University of Texas at Austin.

Salas, Beverly Ann, Assistant Professor of Curriculum and Instruction. B.S., M.Ed., Ph.D., University of Texas at Austin.

Scheuermann, Brenda Kay, Assistant Professor of Curriculum and Instruction. B.S., Illinois State University; M.A., Ph.D., University of Texas at Austin.

Thomas, Jerry Leon, Professor of Curriculum and Instruction. B.S., M.S., Western New Mexico University; Ph.D., University of Texas at Austin.

Webber, Jo Ann, Assistant Professor of Curriculum and Instruction. B.S., M.Ed., Ph.D., University of Texas at Austin.

Werner, Patrice Holden, Assistant Professor of Curriculum and Instruction. B.S., M.Ed., Ph.D., University of North Texas.

Wheeler, Larry James, Professor of Curriculum and Instruction. B.S., Oklahoma State University; M.Ed., Central State University; Ed.D., University of Oklahoma.
Williamson, Bobby Lee, Professor of Curriculum and Instruction. B.S., Texas A&M University; M.Ed., Southwest Texas State University; Ed.D., Colorado State College.

Worley, Stinson Ezell, Professor of Curriculum and Instruction. B.A., Baylor University; M.Fd., Ed.D., University of North Texas.
Department of Educational Administration and Psychological Services

Degree Programs

Majors and Degrees Offered:
- Counseling and Guidance, M.A., M.Ed.
- Developmental Education, M.A.
- Educational Administration, M.A., M.Ed.
- Management of Vocational/Technical Education, M.Ed.
- School Psychology, M.A., M.Ed.

Major Programs

Applicants to the graduate programs offered through the Department of Educational Administration and Psychological Services should submit all application materials before the published application deadlines. To be considered for admission, all required application materials and transcripts must arrive in the Office of Graduate Studies and Research before November 15 for the spring semester, April 15 for the summer session I, June 1 for the summer session II, and July 15 for the fall semester. Other admission requirements are covered below and in the "Admission Policies" section of this catalog.

Counseling and Guidance. The Master of Education degree in counseling and guidance consists of a minimum of 36 semester hours with 9 of the 36 semester hours being adviser-approved electives primarily from the disciplines of educational psychology, psychology, and sociology. Highly qualified and dedicated faculty members take a personal interest in the development and placement of individual students.

Students must complete Educational Psychology 5307, Educational Psychology 5350, Educational Psychology 5358, and Educational Psychology 5391 with a grade of "B" or better to continue in the program and to be eligible to enroll in Educational Psychology 5354. Exceptions to this sequence of courses must be approved in writing by the student's graduate adviser.

The following GPA, GRE, and admission deadline policies apply to degree-seeking as well as non-degree-seeking and certification-only counseling and guidance applicants. Admission to the counseling and guidance program will be based on the following requirements: (1) a 3.0 GPA on the last 60 undergraduate semester hours earned before receipt of the bachelor's degree and (2) a score of 900 or higher on the General portion of the Graduate Record Examination. Applications will be reviewed for admission to the program when the official transcripts and GRE scores arrive in the Office of Graduate Studies and Research. Students wishing to pursue counseling and guidance as a minor for another graduate program of study must meet the counseling and guidance program admission requirements. Should you have any questions regarding the admission policy to the counseling and guidance program, please contact the Chair of the Department of Educational Administration and Psychological Services.

Developmental Education. This 39-hour Master of Arts degree is designed to provide graduate students with the knowledge, skills, and experience necessary to supervise or participate in developmental/remedial education programs in a variety of work settings such as colleges and universities, public schools and private industry. Required course work focuses on the field of developmental education, learning theory, standardized testing, research methodology, and instructional techniques for the basic skills of reading, writing, and mathematics. Graduation requirements include a supervised internship practicum in a recognized developmental education program and a thesis. The developmental education major has no minor. A 15-semester hour
minor in developmental education is available to students who want to teach under prepared learners at the junior and senior college level. The developmental education minor can only be attached to the Master of Education degree with majors in reading education, mathematics, or English. The course sequence for this minor consists of Educational Psychology 5365, Educational Psychology 5370, Educational Psychology 5375, Educational Administration 6389, and Curriculum and Instruction 5320.

In addition to meeting the basic Graduate School admission requirements, to be considered for admission to this program you must submit the following data for review by the departmental Graduate Developmental Education Admission Committee:

1. Application form supplied by the developmental education program;
2. Three letters of reference from professional sources; and
3. Copy of Graduate Record Examination (General) score.

Educational Administration. This is a structured program for preparation of those interested in becoming educational leaders. The 36-hour Master of Education degree is predicated on development of skills in behavioral science, administrative procedures, instructional leadership, and curriculum improvement. Specific objectives address leadership, managerial principles, legal, sociological and psychological aspects of administration, and curriculum implementation. The first twelve hours in the program, taken in six hour blocks, must be: Block one, Educational Administration 5349 and Educational Administration 6346; Block two, Educational Administration 6340 and Educational Psychology 5370. For Maximum program effectiveness the next twelve hours should be taken in the following six hour blocks: Block three, Educational Administration 5334 and Educational Administration 6334; Block four, Educational Administration 5374 and Educational Administration 6348. You must attain a 3.25 GPA to be eligible for the comprehensive examination.

The following GPA, GRE, and admission deadline policies apply to degree seeking educational administration applicants. Admission to the educational administration program will be based on the following requirements: (1) a 2.75 GPA on the last 60 undergraduate semester hours earned before the receipt of the bachelor's degree; and (2) a score of 900 or higher on the General portion of the Graduate Record Examination. Applicants will be reviewed for admission to the program when the official transcripts and GRE scores arrive in the Graduate School office. Students wishing to pursue educational administration as a minor for another graduate program of study must meet the educational administration admission requirements. Should you have any questions regarding the admission policy to the educational administration program, please contact the Chair of the Department of Educational Administration and Psychological Services.

Students wishing to study junior college education may do so through a minor in educational administration. The junior college education area of study is designed for those students who have a major in a content area such as history, sociology, and political science and want to teach that content area at the junior college level.

Management of Vocational/Technical Education. This major is a highly specialized composite degree program. It has flexibility of course work that can be tailored to complement and strengthen your individual interests and background. An administrative core is common to all degree outlines. Supporting work may lead to certification as a vocational teacher, coordinator, or supervisor. This non-thesis Master of Education degree requires a minimum of 36 semester hours. NOTE: MVTE cannot be used as a minor.

School Psychology. The School Psychology Program leads to a Master of Education degree with a major in school psychology and composite minor in psychology and special education. School Psychology may not serve as a minor for other programs. The interdepartmental course sequence leads to certification as a Psychological Associate from the Texas State Board of Examiners of Psychologists: an
Certification Programs

Certifications are available in addition to majors and concentrations associated with degree programs. These include Associate School Psychologist, Counseling, Mid-Management, Superintendent, Supervisor, Visiting Teacher, and Psychological Associate. Inquiries regarding any of these certification programs should be directed to the Chair, Department of Educational Administration and Psychological Services. To be considered for admission to a certification program, all required materials must arrive in the Office of Graduate Studies and Research before the deadline dates outlined above in the “major programs” section. Satisfactory performance on the Examination for the Certification of Educators in Texas (ExCET) test is required for provisional or professional certificates. State law also requires that no one convicted of a felony may be certified to teach in Texas.

Certification in Educational Administration. The program in educational administration offers two distinct certification areas as Texas public school administrators: Mid-Management, a 45-hour program, and the Superintendency, requiring 15 semester hours in addition to the 45 hours at the Mid-Management level. These certificates fulfill requirements for administrative positions such as elementary, middle, or secondary principal, and central office positions.

All certification students will be required to take a mid-management of superintendent diagnostic examination to help determine their areas of strength and weakness. The results of the diagnostic examination will be used to advise students and to create an individual certification plan for each applicant.

Certification in Supervision. The program in supervision offers Texas certification with a 45-hour program. (If you follow the degree option, you must first be accepted as a degree-seeking student. A Master of Education is then awarded after completion of 36 hours of prescribed courses.) This certification plan consists of courses in curriculum and educational leadership. You may choose to specialize in elementary, vocational, early childhood, bilingual, reading, gifted/talented, special education, or a composite area.

Certification and Licensure in Counseling and Guidance and as a Visiting Teacher. A 45-semester hour Professional Counselor Licensure program and a 42-semester hour School Counselor Certification can also be selected. Additionally, the Visiting Teacher Certification program is housed in the Department of Educational Administration and Psychological Services.

Student Fitness and Performance

Program Standards. Students enrolled in all programs in the Department of Educational Administration and Psychological Services must maintain high scholastic standards and develop skills necessary to work effectively with different people with a diversity of needs. Students are expected to demonstrate emotional and mental fitness in their interactions with others, use skills and techniques that are generally accepted by others in the professional fields, and conform to the codes of ethics of relevant professional associations. A student's acceptance in any program does not guarantee his
or her fitness to remain in that program. The faculty is responsible for assuring that only those students who continue to meet program standards are allowed to continue in any program.

**Evaluating Student Fitness and Performance.** Members of the faculty, using their professional judgments, evaluate student fitness and performance continuously. Students usually receive information and counseling related to their fitness and performance from faculty members, their advisors, and their supervisors. The criteria used by the faculty to make such judgments include instructors' evaluations of students' performances in simulated practice situations, supervisors' evaluations of students' performances in practice situations, and the disciplines' codes of ethics. Students who are not making satisfactory progress or who are not meeting program standards should consider withdrawing from the program.

**Required Withdrawal From a Program.** If a faculty member believes that a student is not making satisfactory progress or meeting program standards he or she should discuss the situation with the student. If the faculty member believes the student's performance cannot improve to acceptable standards the faculty member should refer the student to the Program Faculty Committee. The Program Faculty Committee consists of three faculty from the student's discipline, appointed by the department chair.

The committee will notify the student of the reasons why he or she is not making satisfactory progress or meeting program standards and will give the student an opportunity to meet with the committee to respond and to present information and witnesses to the committee. The committee will also meet with the faculty member who referred the student to the committee. After considering the matter the committee will report to the department chair, recommending that the student either be allowed to remain in the program or be removed from the program. The committee may make other recommendations, such as placing restrictions or conditions on the student's continuing in the program.

The department chair, after considering the committee's recommendation and after meeting with the student, will determine whether the student will be allowed to remain in the program. In either case the student will be notified in writing within ten working days of the chairs' receipt of the committee's recommendation.

If the student is dissatisfied with the chair's decision, he or she may appeal to the Dean of the Graduate School. However, in order for an appeal to be considered the student must submit a written notice for an appeal to the department chair within ten working days of receiving the chair's decision. The dean will consider the matter based on results compiled by the department chair and notify the student of his or her decision within ten working days of his receipt of the appeal from the chair.

### Courses Offered

**Educational Administration (EDA)**

- **5101 Research.** (1-0) Individual research in various problems related to education. Data, analysis, and conclusions will be reported.

- **5334 Public School Curriculum Leadership.** (3-0) An examination of educational leadership as it relates to curriculum development and improvement. Consideration is given to the administrator's role in identifying and implementing innovations in curriculum construction at all levels; furnishing leadership in coordinating educational offerings in elementary and secondary schools; diagnosing and prescribing learning activities for all students' needs; planning and evaluating curriculum content and changes; and designating personalized programs in specific skill areas such as reading.

1 May be taken up to three times, for a total of 9 hrs. credit, at the discretion of the chair of the department.
5341 Supervision of Instruction. (3-0) Fundamental problems of supervision; the nature and organization of supervision, supervisory plans and principles; training of supervisory officials; standards for performance and appraisal; methods of improving instruction; case studies in supervision.

5344 School-Community Relations. (3-0) Development of concepts and methods in bringing closer integration of school and community, importance of community life in the education process, and the community school concept.

5346 The Principalship. (3-0) Duties at both elementary and secondary levels; elements common to all; work in areas where functions are sharply differentiated at various levels. Consideration of such topics as these: the place of the principal in the administrative organization, community relationships, his/her business and personnel functions, office management, scheduling, administration of the curriculum, the library and other auxiliary services, the extra-curricular program, the guidance program, the school plant.

5349 Interpersonal Behavior. (3-0) Processes in interpersonal behavior through formal and informal groups. Role performance in interpersonal transactions. Status in group structure. Parameters on behavior created by personality, organizational structure, and leadership considerations. Organizational change and group behavior.

5374 Administration of Special Programs. (3-0) Analysis of legal, academic, and administrative requirements for special programs in the public schools. Emphasis is on special, vocational-technical and career education. Attention will be given to current state- and federally funded programs requiring special administrative skills.

5375 The School Plant. (3-0) A study of plans for determining the extent and character of present and future building and equipment needs of a school unit, efficiency of present plant, operation and maintenance, planning the building program.

5378 Problems in Education. (3-0) Individual problems not related to thesis or research problems. Designed to place emphasis on selected areas of study. A letter following the course number will indicate the area of emphasis according to these codes: 5378B Administration, 5378D Junior College, 5378H Supervision.

5389 Internship Practicum. Offered separately for administrators, counselors, school psychologists, supervisors, and those who are candidates for positions in various areas of special education; will vary with the field chosen. A practicum is included for all like candidates for planning purposes, for discussion, and for evaluation. A special fee is usually charged; see the fee section of this catalog. A letter following the course number will indicate the area according to these codes: 5389B Administration, 5389H Supervision.

5392 The Community Junior College. (3-0) Introduction to the community junior college and to its roles and functions in American education. Special attention will be directed to the evolution, development, patterns of organization, purposes, programs, personnel, and current issues of the community junior college.

5393 Community Junior College Curriculum. (3-0) Introduction to the community junior college with special emphasis on current trends and issues relating to technical-vocational, adult and continuing education, community services, college transfer, and remedial functions of the curriculum.

5394 Teaching in the Community Junior College. (3-0) A study of the junior college instructional program with emphasis on the instructor, his/her preparation, qualifications, and performance. Instructional strategies appropriate to the needs of junior college students, including adults, will be studied.

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1 May be taken up to three times, for a total of 9hrs. credit, at the discretion of the chair of the department.

2 May be repeated once for additional credit at discretion of the chair of the department.
6334 Public School Instructional Leadership. (3-0) Study of the administrator's role in providing instructional leadership in the public schools. Emphasis will be placed on the administrator's responsibilities in such areas as developing concepts of teaching and learning, planning for effective instruction, implementing effective instruction, evaluating classroom instruction, and improving classroom instruction.

6340 Public School Administration. (3-0) The overall principles of administration of public schools. Consideration of such topics as these: the processes of administration, organization—federal, state local districts; instructional personnel and staff; relations with staff and school board.

6341 Pupil Personnel Services. (3-0) Designed to help administrators, counselors, supervisors, and teachers develop an understanding of role of pupil personnel services; responsibility for techniques of evaluating programs of pupil personnel services.

6345 Administration and Staff Personnel. (3-0) Organization and administration of professional staffs, positions, and relationships; professional ethics, welfare; professional involvement in policy and curriculum; faculty development.

6346 Administrative Theory. (3-0) Major emphasis of administrative theory as related to decision making. The first half of the course devoted to the consideration of administrative theories and principles; the second half to the practical application of theory and principle to recent and/or continuing problems of school administration. Decision making is emphasized as being the nature and substance of administration.

6347 The Superintendency. (3-0) The basic issues of problems confronting the superintendent, such as school buildings: planning, contracting, financing, equipping; fiscal and business management; taxation; budgeting, accounting; administering special services; transportation, food services, custodial services; management of personnel.

6348 Public School Law. (3-0) Constitutional provisions, statutory laws, court decisions, and regulations governing public schools, with special reference to state and federal relationships.

6349 School Finance and Business Management. (3-0) Study of school funds on local, state, and federal level; budgeting, data processing; other systems of accounting and reporting. Supply management as related to school efficiency. Maintenance of buildings, grounds, and equipment.

6378 Problems in Education. (3-0) Individual problems not related to thesis or research problems. Designed to place emphasis on selected areas of study. A letter following the course number will indicate the area of emphasis according to this code:

   6378B Administration
   6378H Supervision

6389 Internship Practicum. (3-0) Designed to give prospective school superintendents on-the-job training under the guidance of successful, experienced, practicing school administrators.

Educational Psychology (EDP)

5305 Standardized Testing. (3-2) Problems and principles of administration, scoring and interpreting group and individually administered tests; utilization of test data for diagnostic, placement, predictive, and evaluative purposes; elementary statistical procedures; laboratory activities in test administration, scoring, and interpretation.

5307 Counseling and Personality: Current Theories. (3-0) Theories of counseling and personality will be studied and discussed in the classroom. Students will observe counseling procedures recommended by each theorist and will be given supervised practice in the application and evaluation of these procedures.

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3 May be repeated for credit.
5316 Education in Multicultural Settings. (3-0) Students will examine their own values relative to various cultural factors (life-style, aspirations, language, family, etc.) that influence or impede the learning process as it occurs in multicultural settings. Using simulations, the role and common problems of teachers in these settings will be explored using a problem-solving, values-clarification approach.

5350 Introduction to Professional Counseling. (3-0) An introduction to the counseling profession as practiced in a variety of clinical and human service settings. Emphasis is placed on the philosophical and psychological foundations of mental health counseling, personal/professional traits and skills of effective counselors, professional ethics, licensure, credentialing and professional regulation, and contemporary professional issues.

5354 Counseling Techniques. (3-0) Techniques for individual counseling: Models and intensive practice in systematic approaches to helping skills and interpersonal relationships. Affective and cognitive processes of understanding, acceptance, and sincerity, as components of effective communication, will be major foci of the course.

5355 Career Counseling. (3-0) Historical concepts, foundations and present status of career development theory. Use of occupational information and measurement instruments in career counseling. Current career counseling techniques for special populations.

5358 Dynamics and Processes in Group Counseling. (3-0) An intensive laboratory experience requiring highly active student participation in the form of honest, direct, and open communication combined with authentic self-exploration within the group setting. Through participation and required reading, students will gain firsthand familiarity with the basic principles of the dynamics which are characteristic of therapeutic groups.

5360 Techniques in Marriage and Family Therapy. (3-0) Included will be the diagnosis and assessment of family functioning and the practice of techniques used by systems theorists in marriage and family therapy.

Prerequisite: EDP 5367

5365 Administration of Developmental Education. (3-0) An overview of the field of developmental education with special emphasis on theories of adult learning; the developmental student population; and program design, management, and evaluation.

5366 Seminar in Individual and Group Counseling (Advanced). (3-0) Study of theoretical positions and techniques used by outstanding counseling psychologists in individual and group practice. Supervised practice in both classical and contemporary approaches will be required. Students will identify counseling goals and evaluate the counseling sessions, using criteria appropriate to the specific theoretical position which is being practiced.

Prerequisite: Educational Psychology 5354.

5367 Marriage and Family Counseling. (3-0) Introductory course involving the study of reasons for client need for marriage and family counseling; understandings of the principles of communication and goals of marriage and family counseling; and practice of techniques used in selected approaches to marriage and family counseling.

5368 Counseling Children and Adolescents. (3-0) An examination of the developmental needs of children and adolescents. Emphasis will be on a systems counseling perspective of techniques and procedures used to deliver services to children and adolescents in both the school setting and in private practice.

5369 Techniques in Counseling Adolescents and Children. (3-0) The focus will be on the practice of techniques used in counseling intervention with children and adolescents in both the school setting and in private practice. Group and individual techniques will be practiced as well as assessment and techniques for consulting with parents.
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AND PSYCHOLOGICAL SERVICES

5370 Psychology of Learning. (3-0) Basic problems in the acquisition of responses are studied, treating such constructs as reinforcement, extinction, retention, forgetting, problem solving, motivation, and punishment. Major theories are treated through attention to classical experiments, but greatest emphasis is given contemporary research. See Psychology 5370.

5371 Teaching Learning Strategies and Critical Thinking. (3-0) Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning, methods of assessment, and approaches to instruction.

5375 The Underprepared Learner in American Postsecondary Education. (3-0) A profile of the underprepared postsecondary student and an overview of the types of programs and instructional strategies appropriate for use with that target population.

5376 Psychoeducational Assessment I. (3-0) Administration, scoring and interpretation of individually administered standardized tests of intelligence, special abilities and achievement. Theoretical and statistical bases of the tests used, integrative report writing, and description of learning is also covered.

5377 Personality Assessment I. (3-0) Investigation into the evaluation of personality, mental status, role expectation and behavior. The theoretical bases, construction, administration, scoring and interpretation of structured and projective personality tests with integrative report writing emphasizing the assessment of emotional disturbance and behavior disorders.

5378* Problems in Education. (3-0) Individual problems not related to thesis or research problems. Designed to place emphasis on selected areas of study. A letter following the course number will indicate the area of emphasis according to these codes: 5378A School Psychology, 5378C Counseling.

5379 Personality Assessment II. (3-0) Advanced investigation into assessment of personality dynamics and diagnosis of psychopathology as defined by the current edition of the American Psychiatric Association's Diagnostic and Statistical Manual of Mental Disorders. Integration of advanced projective techniques and structured instruments into comprehensive reports emphasizing intervention recommendations.

5385 Ethics, Standards and Procedures in Professional School Psychology. (3-0) Presentation of historical foundations, role and functions, and procedures used by psychologists in the school setting. Emphasis upon ethical and legal issues, professional standards, state and federal law and organization and operation of the schools as applied to the mental health and education of exceptional learners.

5386 Consultation and Professional Problems in School Psychology. (3-0) Models of consultation as they apply to the professional development and ethical position of the school psychologist. The course emphasizes the consultative role in relation to school administrators, guidance and counseling personnel, teachers, parents, students, and referral sources.

5389A Practicum In School Psychology. (3-0) The first practicum is primarily assessment oriented, often in a school setting, with supervision by on-site and university supervisors. The experience includes orientation to the roles, responsibilities, and functions or various agency and school personnel. This practicum also involves consultation with teachers, parents, administrators, case conferences and participation in interdisciplinary team meetings.

5389W Practicum in School Psychology. (3-0) The second practicum experience may occur in a school or agency setting. The practicum emphasis is on; evaluation or emotional, behavioral and learning difficulties; consultation with school or agency staff, parents and community resources; and direct counseling interventions with individual and/or group techniques.

* May be repeated once for additional credit at discretion of the chair of the department.
5391 Research Seminar. (3-0) Problems in education with emphasis on research procedures. A research project is required of each student.

5396 Advanced Psychoeducational Assessment and Remediation. (3-0) Advanced techniques for comprehensive assessment will be studied with emphasis on standardized individual instruments as well as procedures and instruments not generally included in most test batteries. An overview of neuropsychological and other tests will be given with practice in administering, scoring, interpreting and developing recommendations for remediation.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Educational Psychology 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

6300A Professional Internship in School Psychology. (3-0) The professional internship occurs near the end of formal training in school psychology. Typically, the first internship is a full-time (minimum of 600 clock hours) supervised experience in a school setting. Interns are considered full members of the interdisciplinary team and serve with regular and special education staff.

6300B Professional Internship in School Psychology. (3-0) Professional Internship may be a continuation of the supervised school-based experience or a placement in an appropriate alternative setting (e.g., child guidance clinic, counseling center, etc.). A minimum of 600 clock hours of experience is required and usually takes place in one academic semester.

Graduate Faculty

Avila, Linda Dean, Associate Professor of Educational Administration, B.A., M.Ed., Trinity University; Ph.D., University of Texas at Austin.

Beck, John James, Jr., Professor of Educational Administration and Dean of the School of Education. B.S., Southwest Texas State University; B.S., University of Washington; M.A.T., Ph.D., University of Nebraska.

Boone, Michael, Assistant Professor of Educational Administration. B.S., Kansas State University at Pittsburgh; M.A., Ed.D., Washington State University.

Cams, Ann Worrell, Assistant Professor of Counseling and Guidance. B.S., M.Ed., Ed.D., North Texas State University.

Cams, Michael Ray, Assistant Professor of Counseling and Guidance. B.S., Kansas State University at Manhattan; M.A., Southwest Texas State University; Ph.D., University of North Texas.

Couch, Robert David, Assistant Professor of Counseling and Guidance. B.S., University of Texas at Austin; M.Ed., Southwest Texas State University; Ed.D., University of Arkansas.

Garcia, John L., Assistant Professor of Counseling and Guidance. B.S., David Lipscomb College; M.Ed., Ed.D., Vanderbilt University.

Jones, Lesley, Assistant Professor of Counseling and Guidance. B.A., University of California-Santa Barbara; M.S., Indiana University; Ph.D., The Ohio State University.

Jorgenson, Christabel Bertelsen, Professor of School Psychology. B.A., Texas Lutheran College; M.Ed., Texas Christian University; M.A., Ph.D., Texas Woman's University.
Kurtz, William Harry, Professor of Educational Administration. B.S.Ed., Northwest Missouri State University; M.Ed., Ed.D., University of Missouri.

Lyman, Barbara Gallow, Assistant Professor of Developmental Education. B.A., Anna Maria College; M.A., Brandeis University; Ph.D., Louisiana State University.

Miller, Damon, Professor of Counseling and Guidance. B.S., M.Ed., Howard Payne University; Ph.D., University of Texas at Austin.

Payne, Emily Miller, Assistant Professor of Developmental Education. B.A., University of Texas at Austin; M.A.T., Ed.D., New Mexico State University.

Reese, Marianne, Assistant Professor Educational Administration. B.S., Suffolk University; M.S., Rutgers University; Ph.D., University of Texas at Austin.

Scholwinski, Edward Joe, Jr., Associate Professor of School Psychology. B.S., M.Ed., Southwest Texas State University; Ph.D., Texas A&M University.

Seifert, Edward Herman, III, Professor of Educational Administration and Chair of the Department of Educational Administration and Psychological Services. B.S.Ed., Ed.S., Central Missouri State University; M.S.Ed., Northwest Missouri State University; Ed.D., Oklahoma State University.

Sellars, Diana Elizabeth, Assistant Professor of Developmental Education and Dean of the College of General Studies. B.A., University of North Texas; M.A., Ph.D., University of Texas at Austin.

Simpson, Grant, Jr., Assistant Professor of Educational Administration. B.S., Trinity College; M.A., University of Texas at Austin; Ph.D., Texas A&M University.

Usher, Claire, Assistant Professor of Counseling and Guidance. B.A., North Carolina State University; M.A., Bowling Green State University; Ph.D., University of North Carolina at Greensboro.

Willoughby, Jack Michael, Professor of Educational Administration and Dean of Graduate Studies and Research. B.S., Texas A&M University; M.Ed., Southwest Texas State University; Ed.D., University of Southern Mississippi.

Wright, Jeanne, Assistant Professor of Counseling and Guidance. B.S., M.Ed., University of Montevallo; Ph.D., University of Georgia.
Degree Programs

Majors and Degrees Offered:
- Health and Physical Education, M.A.
- Health Education, M.Ed.
- Physical Education, M.Ed.

Major Programs
The mission of the graduate program in the Department of Health, Physical Education, and Recreation is to provide students with a broad base of knowledge and high level competencies in their selected areas of interest. The department offers graduate study culminating in these degree options: Master of Arts or Master of Education. The Master of Arts consists of at least 30 semester hours, including thesis, with a major of 21-24 hours in health and physical education. The Master of Education in physical education and the Master of Education in health education each consist of at least 36 semester hours, including a major of 21 hours and a 15-hour minor, or a split minor of 9 and 6 hours.

Background
Health Education. As background prerequisites, a health education major is expected to have a minimum of 18 semester hours of health education course work on the bachelor's degree. The graduate student in Health Education may focus on one of two areas of emphasis, School Health or Community Health.

Physical Education. A physical education major is expected to have a minimum of 21 semester hours of physical education course work, exclusive of physical education activity courses. Prospective graduate students interested in pursuing careers in certain areas (e.g., exercise science) are evaluated on an individual basis. The graduate student in Physical Education may choose to focus on one of three areas, Exercise Science, Sport and Leisure Service Management, or Educational Foundations.

Financial Aid
Because the department has a large instructional program for the general university student in addition to broad undergraduate physical education, health education, and recreation major programs, there are extensive opportunities for teaching assistantships. To be considered for positions as assistant instructors, applicants must have unconditional admission to the Graduate School.

Courses Offered

Health Education (H ED)

5310 History and Philosophy of Health Education. (3-0) Intensive study of historical and philosophical contributions to school health program development. Current political issues, public health issues, and influential cultural changes are examined.

5315 Evaluation and Test Construction in Health. (3-0) Study of existing health education tests, methods of test construction, curriculum and program evaluation procedures. Laboratory experiences are provided.

5320 Foundation of Public Health. (3-0) In-depth study of past and current public health programs. State Health Department personnel will appear as guest consultants to familiarize students with various existing health programs for Texas residents.
5330 Workshops in Health Education. (3-0) Topics: 5330A Advanced teaching strategies. 5330B Curriculum development. 5330C Other topics as needed.

5331 Seminar in Current Problems in Health Education. (3-0) Current national and international trends and problems in health which affect the school age group.

5335 Health Education Leadership. (3-0) Structured experiences for developing administrative leadership for health education programs. Included are leadership philosophy, staffing, programming, budgeting, public relations, facilities, and evaluations.

5340 Human Ecology. (3-0) Deals with biological relations between man, other living organisms, and their environment. Concerned with relationships between distribution of human groups with reference to material resources, and consequent social and cultural patterns.

5346 Literature and Research in Health Education. (3-0) Study and critical analysis of health literature including published and unpublished research, types of research, research design, data collection procedures, data treatment, general statistics, data analysis and interpretation.

5347 Independent Study in Health Education Problems. (3-0) Allows for independent study of one or more problems in health education that hold special interest or offer opportunity for professional improvement and growth. Open on an individual basis by special arrangement with the department Chair.

Prerequisite: Health Education 5346.

5399A Thesis. This course represents a student’s initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Health Education 5399B.

Prerequisite: Successful completion of Health Education 5346.

5399B Thesis. This course represents a student’s continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Physical Education (PE)

5302 Issues in Athletic Training and Sports Medicine. (3-0) Course is designed to provide the certified athletic trainer or coach with information that will enhance his/her ability to function effectively as a contemporary, professional athletic trainer or coach and to enhance his/her awareness of current administrative, professional, and legal issues pertaining to athletic training and sports medicine.

5303 Seminar in Athletic Training. (3-0) Current trends in athletics and physical education concerning the care and prevention of injuries with special emphasis on therapeutic and rehabilitation techniques. Taping and bandaging will be practiced in a laboratory situation.

5304 Psychology for Motor Learning. (3-0) The nature of scientific research; theories of behavior development; learning and acquisition of motor skills; empirical principles of learning in relation to motor learning; and structural, physiological, and other factors in relation to motor skill performance.

5305 Advanced Course in Tests and Measurements in Physical Education. (3-0) Intensive study of existing tests in physical education and methods of test construction. Laboratory experiences are provided.

Prerequisite: Undergraduate course in tests and measurements, or equivalent.

5306 Advanced Physiology of Exercise. (3-0) An intense study of the physiological adjustments to exercise. Laboratory experiences are provided.

5309 Biomechanics for Exercise and Sport Sciences. (3-0) Qualitative and quantitative techniques and concepts for analysis and understanding of human motion in exercise and sport sciences.

1 May be repeated once with different emphasis for additional credit.
5311 Programming in Adapted Physical Education. (3-0) To assist the student in designing and implementing a physical education program for the handicapped and special populations.

5321 Workshop Physical Education. (3-0) Current problems in physical education, intramurals, curriculum, public relations, and athletics.

5344 Analysis of Teaching in Physical Education. (3-0) This course is designed for graduate students interested in preservice and/or inservice education. Students will become familiar with the research literature in teacher effectiveness and will attain advanced skills in observation/analysis of teaching.

5345 Supervision of Physical Education. (3-0) Basic principles of supervision of physical education; planning of programs and techniques of supervision, such as interviewing, conferences, evaluation procedures, and visitation procedures. Where possible, students are given opportunities to practice these techniques.

5346 Literature and Research. (3-0) Directed reading, reports, and discussions of the current literature in the field of education, a critical analysis of research techniques and the locations and securing of information, together with the steps necessary to the solution of research problems in this field. See Recreation 5346.

5347 Problems of Physical Education. (3-0) May be taken by a student who desires to work on a research problem. The student gathers pertinent data and submits a report of the results of the research.

Prerequisite: Successful completion of Physical Education 5346.

5348 Organization of the Physical Education Program for the Elementary School. (3-0) Designed to help students overcome problems existing at the elementary level through program planning and organization. Discussions on problems of instruction, evaluation, philosophy and objectives to be attained; role of the teacher in sharing responsibility with all other teachers and administrators; the unique contribution of physical education teachers in the educational process, the concept of the teacher as a community member, and suggestions for improvement of quality of professional education.

5353 Curriculum Development in Physical Education. (3-0) Planning and operation of the total physical education program with special attention to overcoming difficulties peculiar to this field. Assistance is given in preparing curriculum materials for specific purposes and situations.

5356 Experimental Designs in Physical Education. (3-0) Various experimental designs applicable to physical education are examined. Basic concepts of statistical analysis appropriate to the designs are discussed. Practical experience in use of computer programs in data analysis is given. See Recreation 5356.

5360 Administrative Problems in Physical Education. (3-0) Problems of organization and administration of programs in physical education, intramurals, and extramurals. Brings together the phases of school administration and the relationship of the physical education program in the school and the community.

5361 Problems in Facilities and Equipment in Athletics and Physical Education. (3-0) Problems in planning, construction, operation, and maintenance of athletic and physical education facilities. Selection, budgeting, procurement, accountability and maintenance of equipment and supplies for athletics and physical education.

5371 Advanced Techniques in Outdoor Education. (3-0) Includes a study of advanced techniques in camping for schools with special emphasis on trip craft skills, back-packing skills, and survival techniques.

5390 Seminar in the Theory of Competitive Sports. (3-0) Concerned with the understanding and "why" of techniques and theories presently used in coaching competitive sports rather than their use and implementation. Topics such as psychological

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2 May be repeated once for additional credit at discretion of the chair of the department.
problems, legal aspects of coaching, recent training techniques and theory, Little League and junior high competition, as well as topics of student interest are included.

5391 Administrative Problems in Competitive Sports. (3-0) Problems of organization and administration of the various programs in competitive sports for men and women in junior high, secondary, and collegiate levels.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Physical Education 5399B.
Prerequisite: Successful completion of Physical Education 5346.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Recreation (REC)

5310 Philosophical Foundations of Recreation and Leisure Services. (3-0) To introduce and explore the meanings of leisure, leisure behavior, and leisure services from historical, philosophical, sociological, and political perspectives.

5318A Selected Topics in Recreation and Leisure Services. (3-0) Topics: 5318A Military Recreation, 5319B Campus Recreation, 5318C Commercial and Entrepreneurial Recreation.

5319 Marketing of Recreation and Leisure Services. (3-0) A study of marketing functions and principles as they relate to the leisure services delivery system. Analysis of marketing concepts such as feasibility studies, promotion and marketing.

5320A Selected Topics in Therapeutic Recreation. (3-0) Topics: 5320A Leisure enhancement in later life, 5320B Public policy in therapeutic recreation, 5320C Play, leisurability and life satisfaction.

5321 Issues and Trends in Recreation and Leisure Services. (3-0) A seminar style course where students investigate current events on the provision of services. This course will address that need.

5337A Independent Study in Recreational Administration. (3-0) Individual study related to recreational administration under direct supervision of a faculty member.

5346 Literature and Research. (3-0) Directed reading, reports, and discussions of the current literature in the field of education, a critical analysis of research techniques and the locations and securing of information, together with the steps necessary to the solution of research problems in this field. See Physical Education 5346.

5350 Legal and Ethical Issues in Recreation and Leisure Services. (3-0) A seminar style course that focuses on legal and ethical issues related to recreation and leisure services. Tort law, participant rights, accessibility, and credentialing and others are topics to be address in this course.

5356 Experimental Designs in Physical Education. (3-0) Various experimental designs applicable to physical education are examined. Basic concepts of statistical analysis appropriate to the designs are discussed. Practical experience in use of computer programs in data analysis is given. See Physical Education 5356.

5371 Advanced Techniques in Outdoor Education. (3-2) Includes a study of advanced techniques in camping for schools with special emphasis on trip craft skills, backpacking skills, and survival techniques.

5380 Administering Leisure Delivery Systems. (3-0) Study of organizational concepts, a problem-solving model, board-staff relationships, personnel administration, management by objectives, and comprehensive planning in/and for the delivery of leisure services.

3 May be repeated with different topics for additional credit
4 May be repeated for additional credit at the discretion of the chair of the department.
5399A Thesis. (3-0) This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in REC 5399B.

5399B Thesis. (3-0) This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding.

56983 Internship in Recreation and Leisure Services. (0-6) Designed as an in-depth supervised work experience that requires application of classroom theory and research in organizational setting.

Graduate Faculty

Avent, Henrietta Hempstead, Professor of Physical Education. B.A., University of Kentucky; M.A., New York University; D.P.E., Indiana University.

Burkhardt, John Edward, Professor of Physical Education and Chair of the Department of Health, Physical Education, and Recreation. B.A., Simpson College; M.A., Ph.D., University of Iowa.

Calsbeek, Franklin, Professor of Health Education. B.S., Augustana College; M.S., University of Illinois; Ed.D., University of Oregon.

Furney, Steven Reed, Professor of Health Education. B.S., Texas A&M University; M.Ed., University of Houston; Ed.D., University of Tennessee.

Hays, Joan Camille, Professor of Physical Education. B.S., University of Utah; M.S., University of Wisconsin; Ph.D., University of Texas at Austin.

Hoffmann, Keith Farrell, Associate Professor of Physical Education. B.S.Ed., Southwest Texas State University; M.S.Ed., Texas A&I University; Ed.D., University of North Texas.

Johnson, Maurice Allen, Professor of Physical Education. B.S., Minot State University; M.Ed., Springfield College; Ed.D., Arizona State University.

Murray, Tinker Dan, Associate Professor of Physical Education. B.S., University of Texas at Austin; M.Ed., Southwest Texas State University; Ph.D., Texas A&M University.

Paese, Paul Carmine, Professor of Physical Education. B.S., M.Ed., Bowling Green State University; Ph.D., Ohio State University.

Patton, Robert Edward, Professor of Physical Education. B.S.Ed., M.Ed., Southwest Texas State University; Ed.D., University of North Texas.

Wiley, David Clark, Assistant Professor of Health Education. B.S., M.S. East Texas State University; Ph.D., University of Texas at Austin.

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3 May be repeated with different topics for additional credit.
School of Fine Arts and Communication  
Department of Art

Degree Programs

The Department of Art offers neither a graduate major, minor, nor degree. Graduate hours are offered, however, in support of graduate programs.

Courses Offered

Art (ART)

5321' Painting Studio. (3-3) Studio course urging independent involvement in a specialized area of painting.
Prerequisite: 6 hours of painting.

5323' Research in Art Theory and Practice for the Elementary Grades. (3-0)
Research in art literature, studio, and teaching practices.
Prerequisite: Art 3323 or teaching experience.

5325' Research in Art Theory and Practice for Art Beyond the Elementary Grades. (3-0) Research in art literature, studio, and teaching practices.
Prerequisite: Admission to Curriculum and Instruction graduate degree program.

5327' Ceramic Problems. (3-3) In-depth exploration of expressive and technical aspects of clay and glazes. Kiln stacking and firing techniques.
Prerequisite: Art 4327.

5365' Jewelry. (3-3) Emphasis is on the experimental elements in jewelry making. Development of individual design emphasized.
Prerequisites: Art 3365, Art 4365.

5393 History of Mexican Art. (3-0) The history of art and architecture in Mexico from colonial times to the present.

Graduate Faculty

Conroy, Michel Louise, Associate Professor of Art. B.F.A., Webster College; M.F.A., Louisiana State University. (ceramics)

Finlayson, Sandra June, Assistant Professor of Art. B.A., University of Idaho; M.A., Ph.D., University of Oregon. (art education)

Greer, Carole Anne, Associate Professor of Art. B.S., Kansas State University; M.F.A., University of North Texas. (drawing, printmaking)

Gregory, Diane Carol, Assistant Professor of Art. B.S.Ed., M.Ed., Ph.D., University of Missouri at Columbia. (art education)

Nielsen, Erik August, Professor of Art. B.A., M.A., University of South Florida; Ph.D., University of Texas at Austin. (art education, printmaking, and photography)

Penn, Beverly Beecham, Assistant Professor Art. B.F.A., University of Texas at El Paso; M.A., New Mexico State University; M.F.A., State University of New York College at New Paltz. (metals, jewelry, and 3D design)

Row, Brian Gillow, Professor of Art and Chair of the Department of Art. B.F.A., M.F.A., University of Colorado. (sculpture, drawing)

1 May be repeated with different emphasis for additional credit.
Williams, Tommy Carroll, Associate Professor of Art. B.S., West Texas State University; M.Ed., Ph.D., University of Oklahoma. (art history, ancient, medieval, contemporary, and pre-Columbian)

Wilson, Ryce Neal, Professor of Art. B.F.A., M.F.A., University of Texas at Austin. (painting, watercolor, and drawing)
Department of Music

Degree Programs

Majors and Degree Offered:
Music—Music Education, M.M.
Music—Performance, M.M.

Major Programs

The Department of Music offers graduate work in music education, applied music, conducting, music theory, composition, and music history/literature, leading to the Master of Music degree. This 36-hour degree program is offered with various areas of emphasis as listed below. The program normally consists of a 21-semester hour major and a 15-hour minor. A thesis is not required; however, when theory, composition, or history/literature is chosen for emphasis, 6 to 9 hours of the degree are normally devoted to an appropriate special project. If applied music or conducting is chosen for emphasis, a recital is presented as a part of the program. Opportunities are provided for independent study with professors in their areas of specialization.

Areas of Emphasis. The following specializations are offered under the two basic major programs:

<table>
<thead>
<tr>
<th>Music—Music Education</th>
<th>Music—Performance</th>
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<tr>
<td>Choral</td>
<td>Applied music</td>
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<tr>
<td>Instrumental</td>
<td>Conducting</td>
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<tr>
<td>General music (elementary)</td>
<td>Theory/Composition</td>
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<tr>
<td></td>
<td>History/Literature</td>
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</table>

Background. Applicants for the MM degree are expected to have an undergraduate degree in music in order to have the necessary background for graduate study in this field.

Minors

Graduate students majoring in other departments who wish to minor in an area of music need to have an adequate academic background in music. You should consult the graduate adviser in music for information about such a minor.

Financial Aid

Competitive scholarships which include waiver of out-of-state tuition and graduate assistantships (with teaching duties in the department) are available to qualified applicants. For further information about financial assistance and the degree program, please contact the Department of Music.

Courses Offered

Music (MU)

5136 Graduate Music Workshop. (20 hours or more per week per credit hour) Workshops in music are scheduled at periodic intervals with emphasis in varying subject areas. One hour credit per week of workshop study is available. No more than four hours can be used for a degree.

5192 Graduate Recital. (0-1) A full-length, public recital in the appropriate applied music area. Should be taken simultaneously with a final semester of applied music instruction by those students in performance degree plans.

5236 Graduate Music Workshop. (20 hours or more per week per credit hour) Workshops in music are scheduled at periodic intervals with emphasis in varying subject areas. One hour credit per week of workshop study is available. No more than four hours can be used for a degree.

1 May be repeated for additional credit.
5310 Music Literature of the Baroque. (3-0) Style characteristics and literature of the music of 1600-1750 with special emphasis on Bach and Handel.

5313 Problems in Music Education. (3-0) Study of one or more problems in music education that hold special interest or offer opportunity for professional improvement and growth.

5314 Survey of Twentieth-Century Music. (3-0) Emphasis on music of the modern period and its development from music of earlier periods. Numerous examples of vocal and instrumental works in both large and small forms are used to illustrate twentieth-century styles and trends.

5317 Problems in Music Education. (3-0) Study of one or more problems in music education that hold special interest or offer opportunity for professional improvement and growth.

5320 Music Literature, Viennese Classical. (3-0) Style analysis of music literature from 1750 to 1830 with emphasis on Haydn, Mozart, and Beethoven.

5321 The History and Development of Choral Forms. (3-0) A study of the major choral forms, with special emphasis on the mass and motet, as they have developed from the Renaissance to the Contemporary periods of music.

5322 Instrumental Techniques and Materials. (3-0) Evaluation of teaching methods, materials, and literature of wind and string instruments.
Prerequisite: Music 3217.

5327 Advanced Conducting. (3-0) Further development of baton technique, score reading, and rehearsal preparation with special emphasis on analysis and musical styles.
Prerequisite: Music 3217 or Music 3227.

5334 Introduction to Graduate Study in Music. (3-0) Techniques and materials of research, emphasizing bibliography, library usage, collection and interpretation of data.

5340 Music Literature, Nineteenth-Century Romantic. (3-0) Music literature of the period from 1830 to 1910 with analysis of styles.

5350 Musical Styles. (3-0) Developing a broader musical understanding through critical listening, technical analyses, and written assignments in various musical styles, including the late classical, romantic, and present eras.

5355 Pedagogy of Theory and Comprehensive Musicianship. (3-0) Developing teaching methods and broader understanding through critical study of materials, organization, techniques, and problems of music theory and comprehensive musicianship courses.

5360 Music in the United States. (3-0) A survey of the music and musical development in this country from pre-Columbian times to the present. Folk music, popular music, and jazz will be considered as well as traditional and experimental styles.

5370 Selected Topics in Music. (3-0) Advanced study of an announced topic selected from these areas of music: theory, history and literature, pedagogy. Topic and instructor will vary from semester to semester.

Music Ensemble (MUSE)

5121 Chamber Music. (4.5-0) Already existing ensembles that deal with chamber music through study and performance.

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2 May be repeated once with different emphasis for additional credit.
3 May be repeated for additional credit when topic varies.
Applied Music

Music Performance (MUSP)

5101' Applied Music: Graduate Organ. (0-1) Private instruction in music through performance.

5105' Applied Music: Graduate Orchestral Instructions. (0-1) Private instruction in music through performance.

5111' Applied Music: Graduate Piano. (0-1) Private instruction in music through performance.

5115' Applied Music: Graduate Voice. (0-1) Private instruction in music through performance.

5116A Composition. (0-1) Intensive work in free composition, including supervised private instruction and performance of student compositions.

5116B Electronic/Computer Composition. (0-1) Introduction to recording and tape manipulation techniques of music concrete, electroacoustical music techniques involving digital and analog synthesizers and the MIDI environment. Application through the creation of electronic tape compositions and live electronic music.

5116C MIDI. (0-1) Introduction to sequencing and scoring using MIDI devices and computer software. Prerequisites: Computer Science 1308 and approval of the instructor.

5201' Applied Music: Graduate Organ. (0-1) Private instruction in music through performance.


5211' Applied Music: Graduate Piano. (0-1) Private instruction in music through performance.

5215' Applied Music: Graduate Voice. (0-1) Private instruction in music through performance.

5216A Composition. (0-2) Intensive work in free composition, including supervised private instruction and performance of student compositions.

5216B Electronic/Computer Composition. (0-2) Introduction to recording and tape manipulation techniques of music concrete, electroacoustical music techniques involving digital and analog synthesizers and the MIDI environment. Application through the creation of electronic tape compositions and live electronic music.

5216C MIDI. (0-2) Introduction to sequencing and scoring using MIDI devices and computer software. Prerequisites: Computer Science 1308 and approval of the instructor.

5301' Graduate Organ. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

5305' Graduate Orchestral Instruments. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

5311' Graduate Piano. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

5315' Graduate Voice. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

5316A Composition. (0-3) Intensive work in free composition, including supervised private instruction and performance of student compositions.

5316B Electronic/Computer Composition. (0-3) Introduction to recording and tape manipulation techniques of music concrete, electroacoustical music techniques involving digital and analog synthesizers and the MIDI environment. Application through the creation of electronic tape compositions and live electronic music.

1 May be repeated for additional credit.
Graduate Faculty

Belisle, John Michael, Professor of Music. B.M., Oklahoma City University; M.M.Ed., D.Mus., Indiana University. (voice)

Brand, Manny, Professor of Music and Chair of the Department of Music. B.M.E., Florida State University; M.M., Ph.D., University of Miami. (music education)

Bruner, Mary Anne, Assistant Professor of Music. B.M., University of Kansas; M.M., Cleveland Institute of Music; D.M.A., The University of Texas at Austin; Licentiate Teacher’s Diploma, Trinity College of Music (London). (cello, theory)

Bruner, Peggy Gregory, Associate Professor of Music. B.M., M.M., The University of Texas at Austin. (voice)

Carlisle, Marsha Alene, Assistant Professor of Music. B.M., University of Arkansas at Little Rock; M.M., Sam Houston State University. (music education)

Fink, Cary Michael, Assistant Professor of Music. B.M., Indiana University; M.M., University of Nebraska at Lincoln. (voice)

Gangel, William Dean, Assistant Professor of Music. B.M., M.M., Southern Methodist University. (guitar)

Gonzalez, Genaro, Jr., Associate Professor of Music. B.M., M.M., University of North Texas. (percussion)

Hager, Harry Stephen, Associate Professor of Music. B.M.E., West Virginia University; M.M., Michigan State University. (horn)

Hudiburg, Howard Busby, Jr., Assistant Professor of Music. B.M., The University of Texas at Austin; M.M., Southwest Texas State University. (orchestra, bass)

Hudson, James Gregory, Assistant Professor Music. B.M., Northeast Missouri University; M.M., University of Nebraska at Lincoln. (music education)

Hurt, Charles Richard, Professor of Music. B.S., University of Tennessee; M.M., Northwestern University. (trombone, low brass)

Johnson, John Paul, Assistant Professor of Music. B.M., Westminster College; M.M., Ph.D., University of Wisconsin at Madison. (conducting, music education)

Laumer, Jack Charles, Associate Professor of Music. B.A., Saint Olaf College; M.M., Manhattan School of Music. (trumpet)

Morris, Grace Marie, Assistant Professor of Music. B.M., Appalachian State University; M.M.E., Northern Arizona University; Ed.D., University of Illinois. (music education)

Mosello, Adah Toland, Associate Professor of Music. B.M., M.M., Eastman School of Music, University of Rochester; D.A., Ball State University. (flute)

Neely, James Bert, Professor of Music and Assistant Dean of the School of Fine Arts and Communication. B.M., M.M., University of Texas at Austin; D.Mus., Indiana University. (opera)

Pino, David James, Professor of Music. B.M., M.M., Michigan State University; D.M.A., University of Texas at Austin. (clarinet, woodwinds)

Reynolds, Martha Helen, Professor of Music and Supervisor of Student Teaching. B.A., Manchester College; M.M., Pius XII Institute (Italy), Rosary College; Ph.D., University of North Texas. (music education)

Riepe, Russell Casper, II, Professor of Music. B.M., Southern Illinois University; M.A., Ph.D., Eastman School of Music, University of Rochester. (theory, composition)
Schmidt, John Charles, Professor of Music. B.M., Southwestern University; S.M.M., Union Theological Seminary School of Sacred Music; Ph.D., New York University. (theory, organ)

Sergi, Leonore Glickman, Associate Professor of Music. Certificate of Completion, Stuttgart Musikhochschule. (voice)

Skinner, Douglas Durland, Professor of Music. B.M., M.M.F., University of North Texas. (saxophone, jazz ensembles)

Stansberry, John Clayton, Professor of Music and Director of Bands. B.M.E., Drake University; M.M., Michigan State University. (conducting, music education)

Thomas, Naymond Elijah, Associate Professor of Music and Assistant Vice President for Academic Affairs. B.M.E., University of Louisville; M.M., University of Colorado; D.M.A., University of Oklahoma. (voice)

Webb, Frances Odette Mitchum, Assistant Professor of Music. A.B., Coker College; M.M. Indiana University. (piano)

Whalin, John Robert, Professor of Music. B.M., Oberlin College; M.M., D.Mus., Indiana University. (piano)

Winking, Keith Robert, Assistant Professor of Music. B.S., Quincy College; M.M., Southwest Texas State University. (jazz ensembles)

Wolverton, Byron Adams, Professor of Music. B.M., M.A., University of Missouri; Ph.D., Indiana University. (history and literature)

Woolsey, Timothy Dwight, Professor of Music. B.A., Trinity University; M.M., D.M.A., University of Texas at Austin. (piano)
Department of Speech Communication

Degree Programs

Major and Degree Offered:
Speech Communication, M.A.

Major Programs
A Master of Arts with a major in speech communication includes course work in organizational communication, communication training and development, political communication, media criticism, rhetorical theory, rhetorical criticism, interpersonal and small group communication, communication theory, and communication education. Thesis and non-thesis degree options are offered, and you may select from a wide range of minors offered in other departments.

Admission to the Speech Communication Graduate Program is selective, and all applicants will be reviewed by a graduate admission committee. While students must meet all of the requirements for admission to the SWT Graduate School, the achievement of these minimum requirements should not be considered as an assurance of admission to the Speech Communication M.A. program.

Applicants for admission to the M.A. degree program in Speech Communication should submit a 200-400 word statement describing the student's academic and professional goals to the department.

In the 36-semester hour non-thesis degree option, students generally elect 24 semester hours of course work in speech communication, 9 semester hours of course work outside of the department, and 3 semester hours of work on a culminating research project. The 30-semester hour Master of Arts thesis-option program generally includes 18 semester hours of course work in speech communication, 6 semester hours outside of the department, and 6 semester hours of thesis credit. Regardless of whether or not the thesis or non-thesis program is selected, at least 6 semester hours must be taken outside of the department. These outside hours may or may not meet the requirements of a minor in a single department. The non-communication hours may be from several departments as part of a cognate. The student should consult with the department for information concerning specific degree requirements and options. All speech communication majors pursuing an MA degree automatically are assigned to the non-thesis program. After the first semester of graduate school, the student may request the thesis option; however, unless formal steps are taken toward changing to the thesis option, all students will remain in the non-thesis option.

All speech communication majors are required to take Communication 5301, Empirical Methods in Communication Research, and Communication 5323, Rhetorical Methodology. Background hours in speech communication are generally required for students with less than 18 undergraduate speech communication credits. Students who do not have an undergraduate background in speech communication theory and research methods may also be required to take undergraduate background hours before being admitted to the graduate program or before receiving approval for enrolling in graduate speech communication courses. While it is possible to complete the degree requirements within a twelve-month period, many majors elect to extend the period over two years. Speech communication graduate courses are usually offered during the evening.

Minors
A student who minors in speech communication should have completed at least 18 semester hours of course work in speech communication. A minor in speech communication requires a minimum of 6 semester hours of graduate-level speech communication courses.
To gain a broad perspective of the speech communication discipline, speech communication minors are encouraged to take coursework from both rhetorical and behavioral perspectives. Three of the 6 semester hours are normally from Speech Communication 5301, Speech Communication 5316, Speech Communication 5318, Speech Communication 5319, Speech Communication 5325, Speech Communication 5329, Speech Communication 5330, Speech Communication 5331, and Speech Communication 5347. The remaining 3 semester hours normally are selected from Speech Communication 5321, Speech Communication 5323, Speech Communication 5326, Speech Communication 5327, Speech Communication 5343, and Speech Communication 5345. These specific hours and any additional hours for the minor must be approved by the graduate adviser in speech communication.

Students who wish to take coursework in speech communication that is not part of an approved minor should consult with the instructor of the course or the speech communication graduate adviser.

Facilities
The department is housed in the beautiful and distinctive Speech and Drama Center. The multi-million dollar center contains twenty-eight offices, seven classrooms, seminar rooms, a voice laboratory, practice rooms, and extensive audio-visual resources for both research and teaching. There are also two theatres in the center. Computer facilities are available through the university's computer system.

Faculty
The department's speech communication faculty members are active in state, regional and national associations and publish widely in professional journals.

Financial Aid
Graduate assistantships offered at competitive stipends with waiver of out-of-state tuition are available to qualified applicants. Assistantship responsibilities include teaching speech fundamentals, serving as assistant director of forensics, or assisting faculty with research. Most assistantships are assigned in April for the fall semester, but assistantships may be available for students who wish to begin the graduate program in the spring or summer.

Courses Offered
Speech Communication (COMM)

5110 Seminar in Speech and Drama. (1-1) A graduate student serving as a teaching assistant or assistant instructor in the department is required to absolve a minimum of 2 semester hours in this course in addition to the standard requirements for the advanced degree.

5301 Empirical Methods in Communication Research. (3-0) An examination of empirical research methods in speech communication. Measurement procedures, statistics, experimental design, and descriptive research methods will be investigated as well as a consideration of scholarly writing and library research. Required of speech communication majors.

5310 Teaching of Speech and Drama. (3-0) Designed to meet the needs of teachers in the public schools. Emphasis is placed on a well-developed speech and drama program for the elementary and secondary schools and on consideration of methods and materials for the diagnosing and improving of speech and drama. Students will be especially concerned with teaching speech or drama at the college level.

\footnote{May be repeated with different emphasis for additional credit.}
5315' Directed Research in Speech Communication. (3-0) A course, corresponding to Communication 4315, with the same title, to be offered to certain graduate students to allow for independent study in a specific area for which a regular course is not available.

5316 Symbolic Processes of Human Communication. (3-0) To acquaint the student with the theory and research investigating how symbols are used in human communication. Topics of concern include an overview of the approaches and theories of language, empirical research investigating language, and recent research in content analysis and interaction process analysis of speech communication.

5318 Seminar in Interpersonal Communication. (3-0) A review of current research and a presentation of critical and behavioral perspectives on the area. Special emphasis on development of personal competencies in interpersonal communication situations.

5319 Organizational Communication. (3-0) A presentation of practical methods for dealing with the most common communication problems in the organization. Provides managers and consultants with an analytic framework for planning communication and organizational change.

5320' Directing Speech and Drama Activities. (3-0) Designed to assist any teacher, whether of speech and drama or some other subject, in directing the speech and drama activities. During the course, those in the class will actually direct debate, plays, declamation, and other activities.

5321' Communication Evaluation. (3-0) An in-depth study of such evaluation techniques in the field of oral communication as speech criticism and statistical and experimental measurements designed to qualify the prospective teacher to make critical judgments of the students' efforts.

5323 Rhetorical Methodology. (3-0) A study of approaches to the analysis of public discourse directed toward establishing workable perspectives for students conducting rhetorical analysis. Required of speech communication majors.

5325 Seminar in Human Communication Theory. (3-0) An examination of non-rhetorical theories of speech communication, including: Seminar in family communication, seminar in communication and technology, seminar in instructional communication, and seminar in contemporary communication theory.

5326 Classical Rhetorical Theory. (3-0) A study of the history and works of classical and renaissance rhetorical theorists.

5327 Contemporary Rhetorical Theory. (3-0) Study of the history and works of contemporary rhetorical theorists.

5329 Studies in Organizational Communication. (3-0)

5329A Communication Training and Development. Examines the theory and practice of developing and presenting communication training sessions for organizations.

Prerequisite: Communication 5319 or permission of instructor.


Prerequisite: Communication 5319 or permission of instructor.

5329C Advanced Organizational Communication Theory and Practice. Examines organizational communication theory and research in applied organizational contexts.

Prerequisite: Communication 5319 or permission of instructor.

5330 Seminar in Nonverbal Communication. (3-0) A review of current theory and research of nonverbal communicative behavior.

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1 May be repeated with different emphasis for additional credit.
2 May be repeated with different emphasis or topic for additional credit.
5331 Seminar in Persuasive Communication. (3-0) An analysis of behavioral theories of persuasion. Emphasis placed on understanding established theories of attitude formation and change, contemporary persuasion, research, and the application of persuasion theory.

5343 Twentieth-Century Communication Strategies. (3-0) The analytical study of speeches, speakers, groups, movements, and rhetorical strategies in contemporary society. Includes emphasis on the following topics: Seminar in media criticism, seminar in rhetoric and culture, seminar in rhetorical movements, and seminar in rhetorical genres.

5345 Seminar in Political Communication. (3-0) Study of political communication in contemporary times. Course will cover the rhetoric of candidates and politicians, the structure of political campaigns, and campaign practices.

5347 Seminar in Small Group Communication. (3-0) An examination of theories and research evidence about communication in the small group.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Speech Communication 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Graduate Faculty

Beebe, Steven Arnold, Professor of Speech Communication and Chair of the Department of Speech Communication and Associate Dean of the School of Fine Arts and Communication. B.S.Ed., M.A., Central Missouri State University; Ph.D., University of Missouri.

Burkholder, Thomas Rowland, Associate Professor of Speech Communication. B.S.Ed., M.A., Emporia State University; Ph.D., University of Kansas.

Cheatham, Thomas Richard, Professor of Speech Communication and Dean of the School of Fine Arts and Communication. B.A., Wayland Baptist University; M.A., Ph.D., Purdue University.

Gratz, Robert David, Professor of Speech Communication and Vice President for Academic Affairs. B.S., Lamar University; M.A., Ph.D., Bowling Green State University.

Mandziuk, Roseann Marie, Associate Professor of Speech Communication. B.A., Wayne State University; M.S., Illinois State University; Ph.D., University of Iowa.

Salem, Philip Joseph, Professor of Speech Communication. B.S., Northern State College; M.A., Ph.D., University of Denver.

Swinton, Marilyn Mae, Assistant Professor of Speech Communication. B.A., Cornell College; M.A., Ph.D., University of Texas.

Williams, Marvin Lee, Professor of Speech Communication. B.A., Hardin-Simmons University; M.A., Ph.D., University of Oklahoma.

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2 May be repeated with different emphasis or topic for additional credit.
Department of Theatre Arts

Degree Programs

Major and Degree Offered

Theatre Arts, M.A.

Major Programs

A Master of Arts with a major in theatre arts offers emphasis in directing, scenic and/or costume design, history—criticism, and child drama. Theatre arts majors have the option of a research thesis or a creative project with a choice of fields outside theatre for the minor or cognate courses.

Thirty- to 39-semester hours are required for the degree, depending on the area of emphasis and whether or not the thesis option is chosen. A minimum of 6 hours is taken in a minor or cognate area. All students take Theatre Arts 5301, Drama Research; Theatre Arts 5367, Dramatic Theory and Criticism; and at least one of the history/literature courses (Theatre Arts 5365, Theatre Arts 5368, or Theatre Arts 5369). The graduate theatre arts courses are usually offered in the evening, except during the summer sessions.

Facilities

The Department of Theatre Arts is housed in the beautiful and distinctive Speech and Drama Center. The multi-million dollar center contains two theatres which provide for a variety of production styles. In addition, the center houses completely equipped scene and costume shops, twenty-eight offices, seven classrooms, a voice laboratory, and extensive audio-visual resources for both research and teaching.

Financial Aid

Graduate assistantships offered at competitive stipends with waiver of out-of-state tuition are available to qualified applicants. Most assistantships are assigned in April for the fall semester, but assistantships may be available for students who wish to begin the graduate program in the spring.

Courses Offered

Theatre Arts (TH A)

5301 Drama Research. (3-0) An examination of problems and research techniques in drama. Historical, critical, descriptive, and experimental research approaches will be surveyed and basic procedures in research report writing will be considered. Required of theatre arts majors.

5320* Directing Speech and Drama Activities. (3-0) Designed to assist any teacher, whether of speech and drama or some other subject, in directing speech and drama activities. During the course, those in the class will actually direct debate, plays, declamation, and other activities.

5345* Advanced Studies in Costume Design. (3-0) Principles and elements of theatrical costume design. Includes experience in utilizing various rendering techniques in solving the costume problems for entire productions.

5349* Studies in Advanced Technical Theatre Production Techniques. (3-2) The study of advanced contemporary staging, construction, and lighting techniques, with attention given to the use and operation of theatre equipment. Practical experience in university productions is required for one semester.

1 May be repeated with different emphasis for additional credit.
2 May be repeated for credit provided that the student's major emphasis is costume design.
5357' Scene Design. (3-2) Seminar on design, emphasizing presentation and justification of executed renderings or models for selected plays. Emphasis on styles of staging, settings, lighting and properties, and their relationship to the complete production.

5360' Problems in Theatre. (3-0) Designed to give supervised experience to qualified advanced students in theatre history, playwriting, directing, acting, technical, or other theatre problems. Research problems or actual production problems may be chosen.

5365 Backgrounds of Modern Drama. (3-0) An analysis of those developments in dramatic literature which formed the basis of modern drama. Primary emphasis will be on nineteenth- and twentieth-century European and American drama.

5367 Studies in Dramatic Theory and Criticism. (3-0) The study of dramatic theory and criticism from Aristotle to the present.

5368 American Theatre and Drama. (3-0) Studies in the development of the American theatre and drama from colonial days to the present.

5369' Contemporary World Theatre and Drama. (3-0) Studies of current trends in world theatre and drama.

5370' Studies in Advanced Creative Dramatics for Children. (3-0) Studies of the methods of creative dramatics and their use in the classroom. Attention is given to creativity and creative teaching.

5377' Studies in Advanced Theatre Directing. (3-0) A study of directors, theories, and problems of directing in the contemporary theatre.

5387' Directing Practicum. (3-0) Study of and experience in choosing, preparing, and directing a theatre production from analysis to performance. A production in the university's Studio Theatre is required. Attention given to theatre organization and management.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Theatre Arts 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Graduate Faculty

Coulson, Peter, Professor of Theatre Arts. B.F.A., M.A., University of Arizona; Ph.D., University of Kansas.

Flemming, David George, Associate Professor of Theatre Arts. B.A., Adelphi University; M.A., Cornell University.

Gardner, Claudette, Lecturer of Theatre Arts. B.A., Baylor University; M.A., Trinity University.

Hannon, Daniel Leroy, Professor of Theatre Arts. B.F.A., University of Georgia; M.F.A., Ph.D., Tulane University.

Hargett, Sheila Ann, Professor of Theatre Arts. B.A., Southwest Texas State University; M.A., Louisiana State University; M.F.A., Southern Methodist University.

Maganza, Dennis Martin, Professor of Theatre Arts. A.B., St. Louis University; M.F.A., University of Minnesota.

March, Frederick Joe, Professor of Theatre Arts and Chair of the Department of Theatre Arts. B.A., M.A., Texas Tech University.

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1 May be repeated with different emphasis for additional credit.
Pascoe, Charles Henry, Professor of Theatre Arts. B.S.Ed., University of North Dakota; M.S., Colorado State University; Ph.D., Southern Illinois University at Carbondale.

Peeler, William Ray, Associate Professor of Theatre Arts. B.A., Southwest Texas State University; M.F.A., University of Mississippi.

Sodders, Richard Phillip, Associate Professor of Theatre Arts. B.S.Ed., Southwest Texas State University; M.A., Ph.D., Louisiana State University.
School of Health Professions

Department of Allied Health Sciences

Degree Programs

Majors and Degrees Offered:
Communication Disorders, M.A., M.S.C.D.I.S.

Major Programs

Majors. The Department of Allied Health Sciences offers the Master of Science in Communication Disorders (MSCDIS) with a major in communication disorders and the Master of Arts (MA) with a major in communication disorders.

The degree length may vary, depending on the undergraduate background, but both the MSCDIS and the MA require a minimum of 27 academic hours in the communication disorders major, plus a clinical practicum each semester enrolled, with the remaining degree hours in an approved minor area of study. A thesis option is also available for the Master of Arts degree students.

The major in communication disorders is clinically oriented and is designed to prepare clinicians for employment in hospitals, clinics, private practice, and public schools. The program meets the minimum educational and clinical requirements for state licensure as a speech-language pathologist and for the Certificate of Clinical Competence in Speech-Language Pathology awarded by the American Speech-Language-Hearing Association (ASHA). The academic program is accredited by the Educational Standards Board of the ASHA.

Candidates for the communication disorders master's degree are encouraged to take the National Examination in Speech-Language Pathology prior to graduation. The CDIS program director must have the national examination score on file prior to approving the application for the Certificate of Clinical Competence in Speech-Language Pathology.

Admission Policy

Admission to the SWT graduate program in Communication Disorders is selective and competitive. The graduate sequence begins in the fall semester of each year. The typical program is two academic years and one summer session in length.

To be considered for Regular Admission, applicants must have an undergraduate degree in communication disorders from a program whose master's degree is accredited by the Educational Standards Board of the ASHA, at least two letters of recommendation from professors in their previous major, meet the requirements for Graduate School regular admission, a minimum of 3.0 GPA (on a 4.0 scale) for undergraduate academic courses in communication disorders, and a combined verbal/quantitative score of 900 or higher on the Graduate Record Examinations. All application material must be received by the SWT Graduate School by April 15 of each year. Meeting admission requirements for the Graduate School and the Communication Disorders Program does not guarantee admission to the graduate sequence in communication disorders.

Individuals who have undergraduate degrees in majors other than communication disorders can apply and obtain non-degree seeking “Special Student” status from the Communication Disorders Program and the Graduate School to complete the required background work. The number of hours of background work required is determined in consultation with the CDIS graduate adviser and is dependent on the courses taken at the undergraduate level. Upon completion of the required background work, applicants may then apply for admission to the regular graduate sequence for a fall semester. Completion of the background requirements in the
Communication Disorders Program at SWT does not guarantee admission to the graduate program in Communication Disorders.

**Practicum**

In order to obtain the required clinical hours for certification, graduate students must enroll for clinical practicum each semester enrolled for study toward the master's degree. Students desiring to earn supervised clock hours in speech-language pathology must enroll in Communication Disorders 5344. Students desiring to earn supervised clock hours in audiology must enroll in Communication Disorders 4321. Graduate Students earning clinical hours in both speech-language pathology and audiology during the same semester must enroll for both CDIS 5344 and CDIS 4321 concurrently. Students participating in off-campus clinical practicum must enroll in Communication Disorders 5344 or Communication Disorders 5389. Academic hours for clinical practicum do not count toward the degree.

**Facilities.** The university operates the Speech-Language-Hearing Clinic on a twelve-month basis and is nationally known as a treatment center for communication disorders. Graduate students utilize the clinic for research in addition to clinical training experiences. Interaction among physicians, parents, families, classroom teachers, clinicians, and clients is maintained.

**Courses Offered**

**Communication Disorders (CDIS)**

5301 **Advanced Independent Study in Communication Disorders.** (3-0) Discussions of various areas of speech language pathology. Attention to individual needs of the student. Emphasis on independent study in habilitation and rehabilitation of communication disorders. Faculty permission required.

5331 **Stuttering Therapy.** (3-0) Description of therapeutic intervention with children and adults who stutter. Techniques of assessment, management, and counseling are emphasized.

5332 **Rehabilitation of Oral-Facial Anomalies.** (3-0) Detailed description of anatomy, physiology, and management of oral-facial anomalies with emphasis on cleft palate. Principles and procedures for habilitation and rehabilitation are emphasized.

5333 **Advanced Study in Language Disorders.** (3-0) Advanced study in the language disorders of children. Emphasis will be placed on assessment/intervention techniques for pragmatic language disorders. Assessment of infant pre-linguistic development and language problems of adolescents. Literature review will be emphasized.

5336 **Neuromotor Disorders of Speech: Description and Rehabilitation.** (3-0) The course reviews the neuroanatomic mechanisms underlying speech production and surveys the etiology, symptomatology, epidemiology, course, and prognosis of speech disorders resulting from impairment of the central and/or peripheral nervous system. Emphasis is placed on apraxia and the dysarthrias. Clinical application in assessment and rehabilitation of patients with neurogenically-based motor speech deficits is stressed.

Prerequisite: PT 3412 or equivalent.

5337 **Vocal Rehabilitation.** (3-0) Assessment of vocal function and disorders; rehabilitation of the patient with vocal abnormalities due to vocal abuse, psychological, and/or organic etiologies, including laryngectomy.
5339 Head and Neck and Swallowing Disorders. (3-0) A review of anatomic and physiologic disturbances in swallowing and laryngectomy. Course will review techniques for evaluation and radiograph examination of deglutition, as well as other procedures for the study of swallowing. Disorders typical of particular types of neurologically impaired and post-surgical head and neck cancer patients will be discussed. Therapy procedures will be described in detail.

5342 Aphasia and Related Disorders. (3-0) The course develops an understanding of the etiology, symptomatology, assessment, remediation, and recovery patterns of acquired communication disorders which result from impairment of the central nervous system, with a focus on the aphasias and traumatic brain injuries. Coexisting problems caused by damage to cortical/subcortical structures will also be addressed. Recent advances in relevant clinical research and technology will be surveyed.

Prerequisite: PT 3412 or equivalent.

5344* Advanced Clinical Practicum. (1-8) Clinical practicum for graduate students focusing on assessment and remediation of communication disorders in children and adults. Required each semester enrolled.

5362 Introduction to Research in Communicative Disorders. (3-0) Designed to acquaint the student with research protocol in behavior science, with an emphasis in speech-language pathology. Topics include research design, data analysis, manuscript preparation, and obtaining external funding. Emphasis on critical analysis of professional literature.

5363 Differential Diagnosis of Communication Disorders. (3-0) Evaluation and use of assessment information in identifying communication disorders and designing therapeutic procedures.

5364 Diagnostic Practicum in Communication Disorders. (0-4) Supervised practicum of 50 clock hours of diagnosis of speech and language disorders. Students will participate in weekly diagnostic sessions; a grade of "P" will be earned until 50 hours of diagnosis are completed. Initially, to be taken with Communication Disorders 5363.

5389* Internship in Communication Disorders. Laboratory and clinical practicum at selected therapeutic sites used to provide additional breadth to therapeutic experiences. Dependent on approval of program faculty.

5389A Special Practicum.
5389B In-State Internship.
5389C National or International Externship.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Communication Disorders 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Graduate Faculty

Brooks, Alta Rae, Associate Professor of Allied Health Sciences. B.A., M.A., University of Kansas; Ph.D., University of Wisconsin.

Lingwall, James Bernard, Professor of Allied Health Sciences and Chair of the Department of Allied Health Sciences. B.S., M.A., Ph.D., University of Minnesota.

Mallard, Arch Richard, III, Professor of Allied Health Sciences. B.A., M.A., University of North Texas; Ph.D., Purdue University.

Ward, Doyle Glynn, Professor of Allied Health Sciences. B.A., Harding College; M.A., University of Illinois; Ph.D., University of Missouri.

1 May be repeated for credit.
Department of Health Administration

Degree Programs

Majors and Degrees Offered:
- Health Professions—Healthcare Human Resources, M.S.H.P.
- Health Professions—Allied Health Research, M.S.H.P.
- Health Professions—Health Care Administration, M.S.H.P.

Major Programs
The Department of Health Administration offers the degree of Master of Science in Health Professions (MSHP) with majors in health professions—healthcare human resources, health professions—allied health research, and health professions—health care administration.

Health Professions—Healthcare Human Resources
The major in health professions—healthcare human resources is designed to prepare educators for employment in health-related institutions and agencies. The program of study builds on the health specialization of each student with principles and concepts from educational theory and practice relevant to teaching and educational administration responsibilities encountered by health professionals. A new focus in the program is on human resource development in healthcare facilities.

Like the program in healthcare administration, the keystone of the healthcare human resources rests on the non-traditional approach to outreach education, i.e., scheduling courses and educational experiences in San Marcos and nearby metropolitan centers. These educational opportunities are presented at times (late afternoons, evenings, and weekends) especially chosen to avoid conflict with the student’s employment.

Majors. The degree length may vary depending on student career goals and course of study but generally will require between 23 and 25 semester hours in allied health education with a minimum of 15 semester hours in an approved minor area of study (can be split between two programs with a minimum of 6 semester hours in one of the minor areas). The degree can either be thesis or non-thesis, and an internship (practicum) is available.

Prerequisites. Course prerequisites for health professions—healthcare human resources majors include the following, depending on the student’s academic background and experience: statistics (AHS 3302) and computer applications (AHS 3351). It is important to note that these prerequisites may be accepted from other universities and must be taken prior to the graduate course for which they are required, but they need not necessarily be taken prior to admission to the program.

Minors. A full minor of 15 semester hours, or a split minor between two programs with a minimum of 6 semester hours in at least one of the minor areas, may be taken in health professions—healthcare human resources.

Health Professions—Allied Health Research
The major in health professions—allied health research is designed to provide a foundation in the philosophy and methodology of research, evaluation, computer applications, and quantitative management science techniques that will prepare the graduate to be a vital contributor to research or policy development in the health sciences. The focus is on the practical application of quantitative and analytical methods of problem solving and decision making. The program is designed for entrance by students with diverse academic preparation, including both the health and non-health professional.
Majors. The degree length may vary depending on student career goals and course of study for the 42 - 44 semester hour program, but generally will require between 27 - 29 semester hours in allied health research, with 15 semester hours in an approved minor area of study (can also be split between two programs with a minimum of 6 semester hours in one of the minor areas). Based on the student's previous education and experience, the student will take either a 4-hour research internship or complete a thesis worth 6 semester hours. The choice of the minor will be greatly influenced by the career objective of the student.

Prerequisites. Course prerequisites for health professions—allied health research majors include the following, depending on the student's academic background and experience: statistics (AHS 3302) and computer applications (AHS 3351). It is important to note that these prerequisites may be accepted from other universities and must be taken prior to the graduate course for which they are required, but they need not necessarily be taken prior to admission to the program.

Minors. Selected courses from health professions—allied health research are available as a minor option to students from other programs who desire stronger preparation in quantitative skills such as statistics, forecasting, financial modeling, or marketing research. The choice of courses and their sequence will be carefully defined through consultation between the student and faculties from both programs. A minor of 15 semester hours, or a split minor between two programs with a minimum of 6 semester hours in at least one of the minor areas, may be taken in health professions—allied health research. Undergraduate prerequisites for a full 15-hour minor include at least one course in statistics and one in computer applications. Prerequisites for split minors are negotiable depending on the selection of allied health research courses.

Admission Policy. In addition to the basic Graduate School academic admission requirements, all applicants are required to have an official Graduate Record Examination score submitted to the Office of Graduate Studies and Research prior to being considered for admission. Program applicants must receive a minimum Graduate Record Examination composite (General) score of 800 if the grade-point average is 2.75 or above on a 4.0 scale, calculated on the last 60 semester hours of undergraduate work taken before the baccalaureate degree; or a GRE composite (General) score of 900 if the grade-point average is between 2.50 and 2.75 on a 4.0 scale, calculated on the last 60 semester hours of undergraduate work taken before the baccalaureate.

Health Professions—Healthcare Administration

Purpose. The major in health professions—healthcare administration offers courses designed to enhance the career mobility of persons currently employed in health professions as well as to provide a solid base of academic and directed experiences for persons who may desire entry into the field of health administration. The primary focus of the curriculum is middle-to senior-level management.

Principle areas of study include health and disease; sociological, economic, legal and political forces impacting healthcare; and management and organizational behavior including such specializations as financial management, human resource management, planning, marketing, and data generation and analysis.

Majors. The 38-56 semester hour MSHP degree with a major in health professions-healthcare administration usually includes 30-33 hours of core courses and either a field experience of 4-8 hours or 6 hours of thesis, depending on the student's previous health administration experience. A minor of 15 hours is required. There are 6 hours of core courses that must be taken from allied health education and 6 hours from allied health research; therefore, the student usually selects a split minor in health professions—allied health education/allied health professions—allied health research. This split minor allows the student to take one additional 3-hour course in either allied health education or allied health research to complete the 15-hour required minor.
Prerequisites. Course prerequisites for health professions—healthcare administration majors include the following, depending on the student’s academic background and experience: healthcare organizations (Health Administration 4328), statistics (Allied Health Sciences 3302), microeconomics (Economics 2301), accounting (Health Administration 4375), healthcare finance (Health Administration 4376), management information systems (Health Administration 4340), medical terminology (Medical Record Administration 2360) and computer applications (Allied Health Sciences 3351). It is important to note that these prerequisites may be accepted from other universities and must be taken prior to the graduate course for which they are required, but they need not necessarily be taken prior to admission to the program.

Minors. The Department of Health Administration offers a 15-hour minor in health professions—healthcare administration. Courses in the minor will be selected with the graduate adviser according to the student’s area of interest and needs.

Admission Policy. In addition to the basic Graduate School academic admission requirements, all applicants are required to have an official Graduate Record Examination score submitted to the Office of Graduate Studies and Research prior to being considered for admission. Program applicants must receive a minimum Graduate Record Examination composite (General) score of 800 if the grade-point average is 2.75 or above on a 4.00 scale, calculated on the last 60 semester hours of undergraduate work taken before the baccalaureate degree; or a GRE composite (General) score of 900 if the grade-point average is between 2.50 and 2.75 on a 4.00 scale, calculated on the last 60 semester hours of undergraduate work taken before the baccalaureate.

Courses Offered

Healthcare Human Resources (HHR)

5111 Problems in Allied Health Sciences. (1-0) An in-depth study of a single topic or a related problem being faced by practicing educators in the rapidly changing healthcare industry. Special emphasis will be placed on the topic’s current relevance and its utilization value to the participant.

5211 Problems in Health Sciences. (2-0) An in-depth study of a narrow range of topics of related problems being faced by practicing educators in the rapidly changing healthcare industry. Emphasis will be placed on the topic’s current relevance and its utilitarian value to the participant.

5302 Health Service Program Design and Implementation. (3-0) Emphasis placed on the planning, development, evaluation, and implementation of a specific health service-related program.

5307 Trends and Issues in Allied Health Education. (3-0) Designed to acquaint the student with the social and technological trends and issues that affect Allied Health Education and healthcare delivery. Different areas of concentration will be selected.

5322 Human Resource Development in the Health Sciences. (3-0) Designed to prepare the health professional to plan, develop, and implement a human resource development program; to coordinate activities within a human resource development program; and to direct a human resource development program.

5324 Community and Patient Health Education. (3-0) Designed to assist the healthcare specialist develop and manage formalized community and patient health educational programs.

5332 Creative Application of Health Systems Media. (3-0) Healthcare managers, in-service trainers, and program developers will apply techniques which integrate

1 May be repeated if topic differs.
2 May be repeated with permission of the chair of the department if the topic studied is different.
technology and print media in the creative design of informational and marketing materials for healthcare settings. Skill will be gained in the use of prepared media for healthcare personnel and consumers.

**5341 Human Resource Development Evaluation and Research.** (3-0) Course will focus on acquisition and analysis of health research data needed to determine the effectiveness of a health services program, product, or procedure. Basic evaluation concepts and procedures for solving evaluation problems will be applied to situations unique to healthcare institutions.

**5344 Training Needs Analysis.** (3-0) The course will take the healthcare professional through a step-by-step process of determining and analyzing learning needs in a healthcare institution. Various approaches will be explored to determine the number and kinds of learning needs in an individual institution.

**5350 Human Resource Development in the Health Sciences II.** (3-0) Organization and administration of professional staffs, positions, and relationships within the allied health environment. Emphasis will be placed on duties of the department director/chair, faculty development, program evaluation, administration of curriculum development and curriculum changes, and the guidance/counseling program. Additional emphasis will be placed on professional ethics, staff welfare, community relations, office management, policy implementation, staffing, budget preparation, and the physical plant.

**5363 Inter-personal Relations in Healthcare.** (3-0) Theories and techniques from several disciplines will be applied to enhance employee performance in the healthcare setting. Emphasis will be to increase sensitivity to the psychological needs of patients, their families, and employees through programs which improve the quality of work life, optimize interdepartmental relations, promote behavioral change and reduce professional territoriality.

**5391 Research Methods in Allied Health Sciences.** (3-0) A course which integrates fundamental concepts and issues of statistics and research methods. Similarities and differences for different ends of the research-evaluation continuum are examined. Both quantitative and non-quantitative concepts are examined as they apply to the educator or manager.

**5399A Thesis.** This course represents a student’s initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Allied Health Sciences 5399B.

**5399B Thesis.** This course represents a student’s continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

**5440 Practicum Internship A.** (0-8) Practical experience in development of curriculum units to meet actual needs of the allied health sciences. Emphasis placed on needs assessment, objective identification, content planning, and evaluation. Additional emphasis placed on the direction of curriculum development projects.

Prerequisites: Allied Health Sciences 5302 and approval of the Chair or the graduate adviser in the department.

**5441 Practicum Internship B.** (0-8) Practical field experience in instruction to meet the needs of the allied health sciences. Emphasis will be placed on the choice of instructional skills and methods to meet the needs of student population and content. Additional emphasis will be placed on the direction and evaluation of instruction in field settings.

Prerequisite: Allied Health Sciences 5440.
Health Administration (HA)

5111* Topics in Health Administration. (1-0) An in-depth study of a singular topic or a related problem being faced by practicing managers in the rapidly changing healthcare industry. Special emphasis will be placed on the topic’s current relevance and its utilitarian value to the participant.

5211* Topics in Health Administration. (2-0) An in-depth study of a narrow range of topics or related problems being faced by practicing managers in the rapidly changing healthcare industry. Special emphasis will be placed on the topic’s relevance and its utilitarian value to the participant.

5304 Healthcare Financial Theory. (3-0) A study of financial and economic theories impacting the healthcare industry. Special emphasis will be placed on emerging financial research and potential policy ramifications in the future.

5308* Healthcare Seminar. (3-0) Designed to assist students in integrating and synthesizing previous course work in healthcare administration. This is a capstone course which will assist students in understanding concepts they will experience in the internship or residency. Current trends and problems in healthcare administration will be emphasized. A paper and presentation is required of each student.

5316 Healthcare Financial Applications. (3-0) Designed to introduce healthcare financial management applications in budgetary control and financial planning used in a variety of healthcare settings. Course requires a working knowledge of electronic spreadsheets.

5321 Healthcare Law. (3-0) An in-depth analysis of healthcare law and its effect on the relationships between the patient, the patient’s family, the provider, and other interested third parties. Analysis of cases is the primary method of study.

5346 Health Planning: Methods and Practice. (3-0) Study and application of Systems Theory to planning in the healthcare sector. Roles of the social, education, economic, and political sectors on healthcare delivery. Study of the current status and impact of healthcare planning legislation on the implementation of healthcare services.

5354 Healthcare Organization and Delivery. (3-0) A survey of the organization and delivery of health services organizations with focus on the history of the development of the community hospital and its relationship to other elements of the health and medical care delivery system. The roles of the governing body, medical staff, executive management receive major attention.

5355 Personnel Administration in Healthcare Facilities. (3-0) A study of personnel administration in the healthcare facility and the environment in which it functions. Emphasis will be on the role of the Personnel Office in forecasting, developing, and managing human resources, in addition to a review of current legislation affecting the personnel function.

5361 Healthcare Management. (3-0) Designed specifically to improve the effectiveness of the technically-oriented healthcare professional who desires to move into a management or supervisory position in a healthcare facility. Course deals with the essentials of managing human resources in the environment in which the healthcare professional will work.

5371 Marketing of Health Services. (3-0) A study of marketing functions and principles as they relate to the healthcare delivery system. Analysis of marketing concepts such as market segmentation, marketing planning, marketing audit, marketing positioning, and marketing mix will be discussed.

5399A Thesis. This course represents a student’s initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Health Administration 5399B.

1 May be repeated if topic differs.
3 May be repeated if area differs.
5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

5440 Healthcare Administrative Internship. (0-8) Designed to integrate the classroom with practical field experience. The student applies for placement in a healthcare institution which includes rotation through selected departments and culminates with a major project. The internship is a part-time experience, approximately 8-12 hours per week. Students with technical, but not managerial, experience are counseled to include the internship in their degree plan.

5441 Healthcare Administrative Residency. (0-8) Designed for students who have had no previous background in healthcare administration. The administrative residency includes rotations through all the major departments, culminating in a major project. The student registers for this course twice for a total of 8 hours credit.

Allied Health Research (HR)

5111 Seminar in Allied Health Research. (1-0) A seminar course which allows beginning and advanced students to interact with faculty in an informal setting for discussions related to skills required of the Allied Health Research student. Special research and evaluation skills or case studies from the health field may be discussed.

5211 Problems in Allied Health Research. (2-0) An in-depth study of a narrow range of topics or a related problem in Allied Health Research. Special emphasis will be placed on the topic's current relevance and its utilitarian value to the student's future career.

5239 Advanced Multivariate Health Data Analysis. (2-0) Advanced multivariate analysis techniques are examined for their utility to the health sciences. Statistical computer packages, such as the Biomedical Statistical Package (BMD), will be used for the study of each statistical procedure. Applied to health data will be procedures such as multivariate analysis of variance, canonical correlation, factor analysis, and discriminate analysis.

Prerequisite: Health Research 5333 or consent of instructor.

5269 Health Information Systems. (2-0) Critical examination of concepts and theories of medical information systems and their integrated support in functional areas of health institutions, such as pharmacy, clinical laboratory, radiology, food service, wards and clinics, patient administration, patient appointment scheduling and logistics.

5331 Experimental Design and Biomedical Research. (3-0) An introduction to analysis of variance procedures applicable to health research, beginning with simple factor designs and proceeding to higher order factorial designs and analysis of covariance. ANOVA procedures will be examined along with appropriate experimental designs for biomedical research.

Prerequisite: Allied Health Sciences 3302.

5333 Regression Analysis and Biostatistics. (3-0) An introduction to multivariate analysis techniques appropriate to the health sciences. Multiple statistical packages such as the Biomedical package (BMD) will be utilized. The analysis of health data using least-squares analysis for the study of multiple regression and analysis of variance will be examined. Time series analysis will be studied for its utility in forecasting needs within health agencies.

Prerequisites: For Health Professions—Allied Health Research majors, Health Research 5331 and FORTRAN programming (Computer Science 2488 or Computer Information Systems 2321). For minors, prerequisites may be waived with the consent of the instructor.

5341 Operations Research in Health Administration. (3-0) Adaptation and application of procedures and principles of operations research to the specific needs and

1 May be repeated if topic differs.
4 May be repeated for credit.
requirements of health service institutions. Specific attention will be given to the improvement of effectiveness and efficiency of management functions and the delivery of health services. Emphasis will be placed on techniques to optimize allocation of resources, inventory control, customer service/cost factors, and project management within health institutions.

Prerequisite: Allied Health Sciences 5391 or Allied Health Research 5331.

5343 Financial Modeling and Simulation for Health Decisions. (3-0) An examination of financial modeling and decision support systems as aids to decision making in healthcare. Applications of Monte Carlo simulation, modeling, and risk analysis are examined for their utility in healthcare service improvement.

5351 Principles of Epidemiology. (3-0) Principles of epidemiologic method are examined as they may identify factors influencing health and disease in a population. Epidemiological methods are examined for their technique of hypothesis formation, retrospective and prospective methods, and sampling problems.

5365 Applications of Computers in Health Administration and Health Education. (3-0) Applications of computers in the health environment are examined as they may improve efficiency and cost of administrative and educational services. Course prepares the non-computer scientist, health professional for communication with computer professionals. Two tracks are available, one for the health administrator, the other for the health educator. Administrative applications such as office automation, word processing, and telecommunications are introduced. The use of computers and the design of educational software are examined from the perspective of adult, patient, professional, and continuing health education in the health services.

5367 Statistical Packages for Analysis of Health Data. (3-0) Multiple computer software packages will be examined for their utility in health data analysis. Sample health data sets are analyzed using similar procedures from different packages. Strengths and weaknesses of the various packages are contrasted as they are applied to the needs of health data analysis.

Prerequisite: Allied Health Research 5331 or equivalent. Concurrent enrollment allowed.

5383 Healthcare Marketing Research. (3-0) Examination of methods for internal and external environmental analysis, including patient demographics and economic factors. Patient satisfaction surveys, institutional image analysis, competition analysis, and sources of health marketing research data will be introduced.

5399A Thesis. This course represents a student’s initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Allied Health Research 5399B.

5399B Thesis. This course represents a student’s continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

5490 Internship in Health Research and Evaluation. (4-0) Allows the student to reinforce skills learned in the classroom through the development of practical skills for the researcher/evaluator. Students are expected to work with key decision makers in an agency or institution to design, develop, implement, and evaluate a specific area of study.

Graduate Faculty

Boone, Joy Louise, Associate Professor of Health Administration. B.S. in O.T., University of Kansas; M.A., University of Alabama; Ed.D., University of Houston.

Burke, George Cass, III, Associate Professor of Health Administration. B.A., Southern Methodist University; M.A., George Washington University; Dr.P.H., University of Texas Health Science Center at Houston.
French, Deanie, Professor of Health Administration. B.S., M.S., Ph.D., University of Texas at Austin.

Green, Don Carroll, Professor of Health Administration. B.S., M.S., Sam Houston State University; Ph.D., Texas A&M University.

Hankins, Robert Wilbur, Assistant Professor of Health Administration. B.S., Duke University, M.B.A., Ohio State University; Ph.D., University of North Carolina at Chapel Hill.

Herkimer, Allen Gillman, Jr., Associate Professor of Health Administration. B.S., Syracuse University; M.B.A., University of Bridgeport; Ed.D., University of La Verne.

Johnson, Charles Michael, Associate Professor of Health Administration. B.S., East Texas State University; M.S., Ph.D., Texas A&M University.

Mooney, Robert Thurston, Associate Professor of Health Administration. B.S., M.Ed., Texas A&M University.

Nowicki, Michael, Associate Professor of Health Administration. B.A., Texas Tech University; M.A., The George Washington University; Ed.D., University of Kentucky.

Ramirez, Gilbert, Assistant Professor of Health Administration. B.S., Tennessee State University; M.A., Webster College; M.P.H., University of Hawaii; Dr.P.H., University of Texas Health Science Center at Houston.

Renick, C. Oren, Assistant Professor. B.A., M.A., J.D., Mississippi College; Th.M., New Orleans Baptist Theological Seminary; M.P.H., Tulane University.

Summers, Jim, Associate Professor of Health Administration. B.A., University of North Texas; M.A., Ph.D., Tulane University.

Treviño, Fernando M., Professor and Dean of the School of Health Professions. B.S., University of Houston; M.P.H., The University of Texas School of Public Health; Ph.D., The University of Texas Medical Branch at Galveston.

Upchurch, Marian Lee, Associate Professor of Health Administration. B.S., Northwestern University; M.P.H., University of North Carolina; Dr.P.H., University of Texas Health Science Center at Houston.

Welborn, Ruth Buckhannon, Professor and Interim Chair of Health Administration and Associate Dean of the School of Health Professions. B.S.N., University of Texas Medical Branch; M.A., University of Texas at San Antonio; Ph.D., Texas A&M University
School of Liberal Arts

Department of English

The Therese Kayser Lindsey Chair of Literature

Mrs. Louise Lindsey Merrick, philanthropist of Tyler, Texas, presented over half a million dollars to the Southwest Texas State University Foundation to create the Therese Kayser Lindsey Chair of Literature in memory of her mother, Therese Kayser Lindsey. A noted poet and patron of arts, Mrs. Lindsey attended Southwest Texas State Normal, graduating in 1905 in the second graduating class. Mrs. Lindsey published four volumes of poetry and was instrumental in organizing the Poetry Society of Texas.

Dedicated April 11, 1978, with an address by John H. Fisher, the Lindsey Chair has sponsored colloquia on such diverse topics as American Humor, Contemporary Women Writers, the American Southwest, Screenwriting, and Hispanic Writers. Noted writers such as James Dickey, Alice Walker, Margaret Atwood, Larry McMurtry, Galway Kinnell, John Barth, Denise Levertov, Richard Wilbur, and W. S. Merwin have appeared in connection with these lecture series and other events sponsored by the Lindsey Chair.

The distinguished scholar-teacher and long-time editor of American Literature, Arlin Turner, was the first full-time Lindsey Professor (1979-80). During Professor Turner's tenure, the department sponsored a conference on American humor featuring such scholars as John Gerber, J. A. Leo Lemay, Brom Weber, and Hamlin Hill. A subsequent critics series brought to campus Stanley Fish, Hugh Kenner, Lawrence Lipking, Elaine Showalter, and Helen Vendler.

Degree Programs

Major and Degrees Offered:

English: M.A., M.Ed.
Creative Writing: M.F.A.

Major Programs

The Department of English offers three graduate degrees: (1) the Master of Arts degree with an English major requires a minimum of 30 semester hours of work, including a 6-hour thesis and 6 to 9 hours in a minor; (2) the non-thesis Master of Education degree with an English major requires 36 semester hours with a 21-hour concentration in English and a 15-hour minor (which may be a split minor of 6 and 9 hours); and (3) the Master of Fine Arts degree with a Creative Writing major, requires 48 semester hours including 12 hours of writing workshops, 15 hours of literature, 3 hours of form and theory, 3 hours of tutorial/directed reading, 6 hours of thesis credit, and 9 hours in a minor or cognate.

With departmental approval, students may elect a variety of options under each degree plan.

Master of Arts candidates may apply for permission to substitute a creative thesis for the M.A. scholarly thesis requirement.

English majors pursuing the Master of Education degree may also select a 15-hour minor in developmental education. The Master of Education degree serves especially well any secondary and community college teachers who wish to include the pedagogically-oriented courses offered by the department.
The M.F.A. program offers talented writers a chance to develop their skills in a formal academic program. M.F.A. students will select either a fiction or poetry emphasis. M.F.A. candidates may take either a 9-hour minor a 9-hour cognate consisting of courses with a Southwestern emphasis or in the fine arts. Writers interested in the M.F.A. degree should contact the program’s graduate adviser for specific admission requirements.

The Department of English also participates in the Interdisciplinary Studies graduate program, particularly in the linguistics and effective communications courses.

**Minors.** If your major study interests are in fields other than English, please consult with the English graduate adviser about selecting courses for a minor in English to lend support to your major field of study.

**Financial Aid**

Graduate students in English may apply to the department for appointment as either teaching assistants (A.T.s) or instructional assistants (I.A.s). Students receiving any of these appointments devote half time to teaching duties and half time to graduate studies. Candidates should direct their inquiries to the Chair of the Department of English. Normally, applications should be filed by March 1 for fall appointments and by November 15 for spring appointments.

**Courses Offered**

**English (ENG)**

- **5182 Practicum in Composition.** (1-0) Approaches to the teaching of college composition. Required as a condition of employment for graduate teaching assistants in the Department of English. Requirement may be waived only by the Department Chair on the basis of candidate’s previous teaching experience. Credit does not apply toward a graduate degree in English.

- **53001 Language Problems in a Multicultural Environment.** (3-0) An introduction to the study of multicultural and/or multilingual language and linguistics, with special emphasis on the descriptive, psychological, social, and semantic aspects.

- **53101 Studies in English Language and Linguistics.** (3-0) A study of the English language, with special attention to the areas of phonology, morphology, syntax, semantics, dialectology, sociolinguistics, normal language acquisition, and/or writing and spelling systems.

- **53154 Graduate Writing Workshop.** (3-0) A writing workshop offering concentrations in the areas of fiction or poetry with opportunities for work in other genres. Course examines the principles and techniques of creating, evaluating, and revising imaginative writing in these genres. This is a studio course in which the primary texts are the student manuscripts. The workshop component of the course requires class members to participate actively in the review of writing produced by other workshop members.

- **53184 Effective Communications.** (3-0) An interdisciplinary study of human communication in which the student learns to interrelate and use the input forms of reading and listening and the output forms of writing and speaking.

1 May not count as credit toward meeting minimum requirements for the M.A. in English without permission of the Chair of the Department.

2 May be repeated once with different emphasis for additional credit.

3 May be repeated with different emphasis for a maximum of 12 semester hours credit toward the M.F.A.

4 May not count toward the M.A. or the M.Ed degrees without the permission of the Chair of the Department and the instructor.
5320 Form and Theory of Fiction. (3-0) An examination of traditional and current theory and practice in the genre of fiction. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of fiction in other literatures.

5321 Contemporary Fiction. (3-0) Readings selected from canonical and/or experimental fiction.
   5321A Bellow and the Comic Contemporary.
   5321B Experimental Novels.
   5321C Women Writers.
   5321D Novels into Film.
   5321E Flannery O'Connor.
   5321F D. H. Lawrence and Virginia Woolf.
   5321G James Joyce.
   5321H The Edwardian Novel

5322 Form and Theory of Poetry. (3-0) An examination of traditional and current theory and practice in the genre of poetry. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of poetry in other literatures.

5323 Eminent Lives in Literature. (3-0) A study of selected works in autobiography and biography with special attention to the art forms used in these works.

5325 Reflections of Life in the Lore and Literature of the Southwest. (3-0) Selected Texas and Southwestern writers with emphasis on fiction.

5331 Studies in American Poetry. (3-0) Selected poets with a survey of their works.
   5331A Millay, Jeffers, Cummings, Eliot.
   5331B Leverton, Bly, J. Wright and C. Wright.
   5331C Southern Poetry.
   5331D Whitman/Dickinson.

5332 Studies in American Prose. (3-0) Selected authors with special attention to novels.
   5332A Twain and Howells.
   5332B Faulkner and Hemingway.
   5332C Wright and Hurston.

5353 Studies in Medieval English Literature. (3-0) Masterpieces of the Medieval Period with emphasis on their authors and contexts.
   5353A Chaucer.
   5353B Non-Chaucerian.

5354 Studies in English Renaissance Literature. (3-0) Emphasis on the great authors of the Renaissance and their variety of genres.
   5354A Shakespeare.
   5354B Tudor-Stuart Drama.
   5354C Renaissance Epic.
   5354D Spenser.
   5354E Seventeenth-Century Literature and the New Historicism.
   5354G Renaissance Pastoral and Romance.
   5354H The Major Works of Milton.
   5354I Varieties of Puritan Literature.
   5354J Tudor Humanism and Literature.

2 May be repeated once with different emphasis for additional credit.
4 May not count toward the M.A. or the M.Ed degrees without the permission of the Chair of the Department and the instructor.
5 May not be taken for graduate credit if the undergraduate companion course (4000 level) has been completed.
53592 Studies in Eighteenth-Century Literature. (3-0) Major writers of the period with emphasis on scholarship and aesthetics as well as cultural and historical background.

5359A Johnson and His Circle.
5359B Restoration and Eighteenth Century Drama.

53642 Studies in the English Romantic Movement. (3-0) The works of the Early Romantics or Late Romantics in context with attention to nineteenth- and twentieth-century scholarship.

5364A Blake and Other Arts.
5364B Coleridge and the Wordsworths.
5364C Byron.
5364D Shelley and Keats.

53662 Studies in Victorian Poetry. (3-0) Major Victorian poets with emphasis on scholarship and aesthetics as well as cultural and historical background.

5366A Tennyson and Browning.
5366B Pre-Raphaelites and Hopkins.

53682 Studies in Victorian Prose. (3-0) Major Victorian prose writers with emphasis on scholarship and aesthetics as well as cultural and historical background.

5368A Thomas Hardy.
5368B Jane Austen and George Eliot.
5368C Non-Fiction Victorian Prose.

53712 Studies in Modern British Poetry. (3-0) Selected poets with a survey of their works.

5371A Yeats, Wilde & Synge.
5371B Eliot and Auden.
5371C Post-World War II British Poetry.

53812 Studies in Modern British and American Drama: 1900-Present. (3-0) A survey of major British and American dramatists and their European context.

5381A American and British Dramatists in Their World Context.

538312 Rhetorical Theory for Teachers. (3-0) A study of rhetorical theory as it bears on current approaches to the teaching of composition.

538412 Critical Theory for Teachers. (3-0) A study of critical theory as it bears on current approaches to the teaching of literature.

538712 Concepts, Materials, and Methods of Teaching English. (3-0) A lecture and demonstration course for studying the use of media, the library, and special tools and materials useful to the English teacher; demonstrating methods, materials, and techniques; presenting model lesson plans; and construction and implementing concepts for specific teaching assignments in reading and writing.

53882 Studies in Literature for Children or Adolescents. (3-0) Course will serve elementary education master’s candidates and secondary education master’s candidates. The former will study literature for children when that topic is offered; the latter, literature for adolescents when that topic is offered. Topics will center on extending the student’s knowledge of what is available for young readers and deepening the student’s critical ability.

53952 Problems in Language and Literature. Open to graduate students on an individual basis by arrangement with the department.

5395A Critical Approaches to Literature.

5399A Thesis. This course represents a student’s initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in English 5399B.

5399B Thesis. This course represents a student’s continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

1 May not count as credit toward meeting minimum requirements for the M.A. in English without permission of the Chair of the Department.
2 May be repeated once with different emphasis for additional credit.
6 May be repeated with different emphasis for additional credit.
Graduate Faculty

Bell-Metereau, Rebecca Louise, Professor of English. A.B., A.M., Ph.D., Indiana University.

Blair, John Michael, Assistant Professor of English. B.A., M.A., Florida State University; Ph.D., Tulane University.

Blanchard, Lydia Ann, Professor of English. B.S., M.S., Northwestern University; M.A., Ph.D., American University.

Brennan, Karen M, Assistant Professor of English. B.A. Newton College of the Sacred Heart; M.F.A. Goddard College; Ph.D. University of Arizona.

Brunson, Martha Luan, Professor of English and Associate Dean of the School of Liberal Arts. B.S., Northwestern University; M.A., Ph.D., Texas Tech University.

Busby, Mark Bayless, Associate Professor English. B.A., M.A., East Texas State University; Ph.D., University of Colorado, Boulder.

Chavkin, Allan Richard, Professor of English. B.A., Dickinson College; A.M., Ph.D., University of Illinois.

Cohen, Paul Nathan, Professor of English. B.A., University of Baltimore; M.A., Ph.D., Rutgers, The State University.

Deduck, Patricia Anne, Professor of English. B.A., State University of New York at Plattsburg; A.M., Ph.D., Indiana University.

Gravitt, Garland Jack, Professor of English and Dean of the School of Liberal Arts. B.A., Baylor University; M.A., Southwest Texas State University; Ph.D., Southern Illinois University.

Grayson, Nancy Jane, Professor of English and Chair of the Department of English. B.A., Texas Christian University; M.A., Ph.D., University of Texas at Austin.

Gross, Dalton Harvey, Professor of English and Graduate Adviser in English. B.A., Luther College; M.A., Ph.D., Southern Illinois University.

Grimes, Tom J., Assistant Professor of English. B.A., Queens College, New York; M.F.A., University of Iowa.

Gross, Mary Jean, Assistant Professor of English. B.A., M.A., Southern Illinois University; Ph.D., University of Texas at Austin.

Hankins, June Chase, Assistant Professor of English. B.A., Southwestern University; M.A., University of Arkansas; Ph.D., Texas A&M University.

Heaberlin, Dickie Maurice, Professor of English. B.A., M.A., University of North Texas; Ph.D., University of Texas at Austin.

Henry, Michael John, Professor of English. B.A., Seattle University; M.A., Ph.D., Marquette University.

Hill, John Stanley, Professor of English. B.S., M.A., University of Kansas; Ph.D., University of Wisconsin.

Holt, Elvin, Professor of English. B.A., Prairie View A&M College; M.A., Southwest Texas State University; Ph.D., University of Kentucky.

Ingram, Angela Jennifer Clare, Professor of English. B.A., University of Leicester; Ph.D., University of Cambridge.

Jones, Roger Dean, Assistant Professor of English. B.A., M.A., Sam Houston State University; Ph.D., Oklahoma State University.
Laird, Edgar Stockton, Professor of English. B.A., M.A., Southwest Texas State University; Ph.D., Rutgers, The State University.

Leder, Priscilla Gay, Associate Professor of English. B.A., University of Arizona; M.A., California State University at Fullerton; Ph.D., University of California at Irvine.

Lochman, Daniel Thomas, Professor of English. B.A., M.A., Loyola University; Ph.D., University of Wisconsin.

Monroe, Debra F., Assistant Professor of English. B.A., University of Wisconsin-Eau Claire; M.A., Kansas State University; Ph.D., University of Utah.

Olson, Marilynn Strasser, Assistant Professor of English. B.A., Michigan State University; M.A., Ph.D., Duke University.

Parkin-Speer, Diane, Professor of English. B.A., Lewis and Clark College; M.A., Bowling Green State University; Ph.D., University of Iowa.

Randolph, Robert Morrison, Associate Professor of English. B.A., Wilmington College; M.A., Louisville Presbyterian Theological Seminary; M.A., Ph.D., Southern Illinois University.

Ronan, Clifford John, Professor of English. B.A., Amherst College; M.A., Ph.D., University of California at Berkeley.

Rosenbalm, John Olmsted, Professor of English. B.A., M.A., Ph.D., University of North Texas.

Skerpan, Elizabeth Penley, Associate Professor of English. A.B., Miami University; M.A., Ph.D., University of Wisconsin.

Slovic, Scott Harlan, Assistant Professor of English. B.A., Stanford University; M.A., Ph.D., Brown University.

Starling, Betty Ross, Associate Professor of English. B.A., Harding College; M.A., Ph.D., University of Texas at Austin.

Tangum, Marion Mast, Associate Professor of English and Associate Director of Sponsored Projects. B.A., Trinity University; M.A., University of Texas at San Antonio; Ph.D., University of Texas at Austin.

Thompson, Robert Bryan, Assistant Professor of English. B.S.Ed., B.A., University of Texas at Austin; M.A., Stephen F. Austin State University; Ph.D., University of Iowa.

Wilson, Miles Scott, Professor of English and Director, M.F.A. Program in Creative Writing. B.A., Pomona College; M.F.A., University of Oregon.

Wilson, Steven Michael, Assistant Professor of English. B.A., University of Oklahoma; M.A., Texas Christian University; M.F.A., Wichita State University.
Degree Programs

Major and Degree Offered:
Geography, M.A.G.

Major Programs
The Department of Geography and Planning offers the Master of Applied Geography degree requiring 39 semester hours. All candidates must complete a core consisting of Geo 5300, 5301 and 5309, and complete either a thesis and 3 hours of internship (Geo 5380) or a directed research project (Geo 5335) with 6 hours of internship. Students must also have a 6 hour resource area composed of graduate courses taken outside the Department of Geography and Planning. These courses may be taken from more than one department.

For the remaining 15 hours of the degree students may select from 4 majors. They are: 1. the geography major with either a general concentration which permits 15 hours of geography electives or a concentration in geographic education which requires Geo 5340 and 12 hours of geography electives with 6 of these to be selected from Geo 5313, 5315, 5316, 5323, 5349, 5370 and 5395; 2. resource and environmental studies which requires Geo 5313, 5314, 5316, and 6 hours of geography electives; 3. land/area development and management which requires Geo 5312, 5338, 5339 and 6 hours of geography electives; 4. cartography/geographic information systems which require Geo 5408, 5417, 5418 and 3 hours of geography elective.

Students are also subject to the policies and procedures outlined in the departmental graduate student handbook which may be acquired from the departmental graduate adviser after admission to the program.

Program Goals. The Master of Applied Geography degree program is designed to train geographers to use their skills and background knowledge to solve real-world problems with geographic dimensions. Applied geography includes such sub-fields as environmental management, land use planning, location analysis, land management, transportation systems planning, applied physical geography, geographic aspects of environmental law, cartography, and computer analysis. The degree is intended to provide terminal training to prepare the student for middle management employment, but the research and analysis skills which are taught in this program are also excellent training for the student who intends to proceed to doctoral work.

Financial Aid
Graduate assistantships are available to qualified candidates. Please contact the graduate adviser, Department of Geography and Planning, for more information about financial assistance and the degree program.

Courses Offered

Geography (GEO)

5190* Independent Study. Individual study under direct supervision of a professor. May involve geographic field trips. To be taken with consent of the instructor.

5290* Independent Study. Individual study under direct supervision of a professor. May involve geographic field trips. To be taken with consent of the instructor.

5300 Research Design and Techniques. (3-0) Students will be introduced to appropriate research methodologies for applied geographers. Emphasis will be placed

1 Geography 5190, Geography 5290, & Geography 5390 may be taken for a total of 6 semester hours of credit.
4 Name change pending Coordinating Board approval.
on the scientific method, productive library research, data collection and analysis, field work, effective writing, and the nature of graphic representation.

5301 Quantitative Methods. (3-0) An introduction to basic descriptive and inferential statistics as applied to geographic data and problems. Students will learn how to use the Statistical Package for the Social Sciences (SPSS) on the computer.

5309 Applied Geographic Analysis. (3-0) A survey of typical spatial problems that are of interest to geographers. Course will include topics associated with the nature and impact of regional development, location of public and private facilities, and environmental management. There will be problems from the physical and cultural environment.

5312 The Planning Function and Process. (3-0) The nature, purpose, and scope of planning in the United States with emphasis on city and town planning. Selected topics for discussion will include community inventory and analysis, the formulation of goals and policies in the development of the comprehensive plan, and plan implementation.

5313 Environmental Management. (3-0) An analysis of the major causes of environmental deterioration together with the basic strategies of dealing with these problems.

5314 Geographic Elements of Environmental Law. (3-0) A survey of environmental laws related to land, air, and water pollution. The nature of environmental problems will be studied as they relate to urbanization, industrialization, land development, noise, radiation and solid waste management, and the laws and guidelines that have been passed to alleviate such problems.

5315 Regional Analysis. (3-0) Course focus is the region. Case studies will be selected from political and functional regions. Course content will include such information as demographics, economy, physical and social environments, transportation, and foreign trade. The emphasis will be on development and on impediments to development.

5316 Applied Physical Geography. (3-0) A survey of methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the physical environment. Emphasis will be on problems characteristic of particular geographic locations or specific environmental settings. The role of human activities will be considered as an integral part of the earth system.

5323 Location Analysis. (3-0) Factors of importance in the decision-making process of locating both public and private sector facilities. Attention will be paid to the location of manufacturing activities, commercial enterprises, and a variety of social service facilities.

5335 Directed Research. (3-0) A course designed to allow the student to pursue a topic of applied geographic research under the direct supervision of a professor. Generally, the topic will be something that is not customarily dealt with in an organized class. Group research is encouraged. Topics should be selected that involve library research and field investigation. Progress is monitored regularly by the supervising professor.

5336 Transportation Systems. (3-0) The principles and procedures of transportation planning and management will be examined. Transport theory will be discussed as well as the characteristics of various model systems. The effectiveness of federal, state, regional, and local programs and policies will be analyzed. Special emphasis will be placed on mass transit, particularly in view of changes in urban structure and the high costs of energy.

5337 Impact Assessment of Land Development. (3-0) Selected residential and non-residential development projects of varying sizes are analyzed by student teams with respect to: community fiscal impact, economic feasibility and cash flow of the project, site analysis, environmental factors, design concepts, and legal implications.
5338 Land Use Planning. (3-0) Students will be instructed in all phases of the planning process, beginning with the assessment of needs and proceeding through the establishment of goals and objectives, data collection, information processing and analysis, model building and the generation of alternative land use plans, selection of the best alternative, policy determination, program implementation, and information feedback. Practical techniques involved in land use planning will be considered.

5339 Land Development and Management. (3-0) A review of the economics, alternate options and responsibilities in land development. Major topics include management of growth, growth pressures, and local government response to such dynamics as suburban sprawl, condominium conversions, and rapid changes in the best use of the land. Attention is paid to land valuation and appraisal.

5340 Geography for Teachers. (3-0) The content and methods needed for teaching geography in the schools. Emphasis will be on those essential elements which will allow teachers to satisfy current public school curriculum requirements. Preparation of a grade-level specific teaching unit is required.

5349 Population Geography. (3-0) An in-depth study of the spatial distribution and movement of human populations. Course will emphasize current issues and analytical techniques. Topics will include the impact of population growth, spatial diffusion processes, migration trends and theories, explanation of regional demographic differences, and techniques such as population projections.

5351 Regional Waste Management. (3-0) The principles of effective solid waste planning and management will be examined as they relate to such activities as waste generation, storage and collection, transfer and transportation, processing and volume reduction, resource conservation and recovery, the disposal of wastes, and the handling of special wastes, particularly those of a toxic and hazardous nature.

5360 Seminar in Planning Problems. (3-0) A critical and in-depth examination of several problem areas currently facing the planner.

5370 Seminar in Applied Physical Geography. (3-0) Critical analysis of theories, models and techniques of physical geographic research with the focus on application to real-world problems.

5380 Internship. (3-0) Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the internship director.

5390 Independent Study. Individual study under direct supervision of a professor. May involve geographic field trips. To be taken with consent of the instructor.

5395 Problems in Applied Geography. Designed to consider a selected topic relating to applied geography. Emphasis on the practical application of geographic tools, with individual or group participation in a specific project. Course topics may vary depending on student and faculty interests and may apply to any of the three graduate tracks: physical-environmental, land area development and management, or cartography.

5399A Thesis. This course represents a student’s initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Geography 5399B.

5399B Thesis. This course represents a student’s continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

5408 Applied Cartography. (2-4) Application of methods used by government agencies and commercial map publishers for the compilation and production of finely detailed maps for long printing runs, such as topographic sheets, road maps, and at-

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1 Geography 5190, Geography 5290, & Geography 5390 may be taken for a total of 6 semester hours of credit.
2 May be repeated once for additional credit with approval of graduate adviser.
3 Repeatable for up to 6 hours.
lases. Included will be methods by which maps can be used to display applied geographic data.

5416 Remote Sensing. (2-4) Interpretation of remotely sensed geographic phenomena. Students will use air photos and satellite imagery.

5417 Computer Cartography. (2-4) The use of the computer to produce graphic compositions for geographic research and map making. Course will concentrate primarily on computer mapping but will also cover means for producing types of charts and graphs that are particularly appropriate for use with geographic data.

5418 Geographic Information Systems. (2-4) Course is concerned with the analysis and interpretation of maps stored in digital form. Students are introduced to concepts and practices involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling.

5430 Field Methods. (2-4) Course will emphasize common field techniques necessary in the construction of accurate maps. Various kinds of data collection techniques will be presented that will facilitate geographic research.

5680 Internship. (6-0) Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the internship director.

Graduate Faculty

Augustin, Byron Dale, Professor of Geography and Planning. B.A., Hastings College; M.A., University of Kansas; D.A., University of Northern Colorado.

Blanchard, Renee Denise, Assistant Professor of Geography and Planning. B.S., Auburn University; M.S., Florida State University; Ph.D., University of Colorado at Boulder.

Boehm, Richard Glen, Professor of Geography and Planning and Chair of the Department of Geography and Planning. B.S.Ed., M.A., University of Missouri at Columbia; Ph.D., University of Texas at Austin.

Brown, Brock J., Assistant Professor of Geography and Planning. B.A., M.E., Wichita State University; M.A., Ph.D., University of Oklahoma.

Day, Frederick Albert, Associate Professor of Geography and Planning. B.A., Syracuse University; M.A., Ph.D., Ohio State University.

Earl, Richard Allen, Assistant Professor of Geography and Planning. B.A., University of California - Los Angeles; M.A., California State University - Northridge; Ph.D., Arizona State University.

Fitzsimons, Dennis Eugene, Associate Professor of Geography and Planning. A.B., M.A., San Diego State University; Ph.D., University of Kansas.

Harrison, James Douglas, Professor of Geography and Planning. B.A., M.A., University of Denver; Ph.D., University of Oklahoma.

Kimmel, James Ross, Assistant Professor of Geography and Planning. B.S., M.S., Baylor University; M. Phil., Yale University; Ph.D., University of Texas - Austin.

Larsen, Robert Douglas, Professor of Geography and Planning. B.S., University of Wisconsin at Superior; M.S., Ph.D., University of Wisconsin at Madison.

Macey, Susan Michele, Associate Professor of Geography and Planning. B.A., M.A., University of Queensland, Australia; Ph.D., University of Illinois at Urbana.

Petersen, James Frederick, Associate Professor of Geography and Planning. B.A., M.A., California State University at Chico; Ph.D., University of Utah.
Rudnicki, Ryan, Assistant Professor of Geography and Planning. B.A., University of Connecticut; M.S., Ph.D., Pennsylvania State University.

Tiefenbacher, John Paul, Assistant Professor of Geography and Planning. B.S., Carroll College; M.S., University of Idaho; Ph.D., Rutgers University.

Visser, Sent, Associate Professor of Geography and Planning and Graduate Adviser. B.A., M.A., University of Auckland, New Zealand; Ph.D., Ohio State University.
Degree Programs

Major and Degrees Offered:
History, M.A., M.Ed.

Major Programs
The Department of History offers the Master of Arts and the Master of Education degrees. Normally, the Master of Arts consists of 24 semester hours of history course work, including thesis, and 6 graduate hours from a minor field. The Master of Education degree consists of at least 21 hours of history and 15 hours from a minor field or a split minor with 9 hours from one field and 6 hours from a second field.

Program Goals. The graduate program in history is designed to prepare students for careers in professional history (teaching and/or research and writing) and to provide a general liberal arts education for students who desire to enter several fields, including business, journalism, law, and government service. Emphasis is more or less equally placed on the acquisition of historical information and the skills and tools of research.

Admission Policy
Unconditional admission to departmental programs is based on a 3.0 or higher grade-point average on 24 hours of background (undergraduate) work in history for those seeking a graduate major and a 3.0 average on 18 hours for those seeking a graduate minor. In rare situations, conditional admission may be available for students with grade-point averages below 3.0 in history.

International students: All international students must score at least 550 on the TOEFL test and 220 on the TSE test. Both tests are required for admission to this department's graduate program.

Financial Aid
Limited graduate assistantships and assistant instructorships are available to capable students. Normally, beginning graduate students start as graders in large sections of survey courses and then, after completion of 18 hours of graduate history course work, a few may be employed as assistant instructors to teach two small sections.

Interested students should contact the Chair or the graduate adviser in the Department of History or write and request the bulletin, "Graduate Study in History."

Courses Offered

History (HIST)

5308 Pre Modern European History. (3-0) A seminar based on selected topics from the ancient and medieval civilizations of Europe and the Mediterranean region.

5309 Early Modern European History 1450-1815. (3-0) A seminar based on selected topics in Early Modern European history.

5310 Modern European History. (3-0) A seminar based on selected topics in the history of Europe since 1870.

5313 Early American History: The Age of the American Revolution. (3-0) A seminar based on selected topics in the Revolutionary and Early National periods of American history.

5318 British History. (3-0) A seminar based on selected topics in British history.

5321 National Period of Latin American History. (3-0) The history of Latin American countries from the period of their independence to the present. Topics will
vary, allowing both a study by country (or countries) and an institutional treatment of the general area.

5322 Colonial Latin American History. (3-0) The colonial history of Latin America approached through a study of the following aspects: aboriginal and Iberian backgrounds; discovery and exploration; political, economic, social institutions of the Ibero-American empires; and independence movements.

5335 Twentieth-Century Russia. (3-0) A seminar based on selected topics in recent Russian history.

5336 East European History. (3-0) A seminar based on selected topics in recent East European history.

5342 Social and Intellectual History of the United States. (3-0) A seminar based on selected topics in the intellectual and social history of the United States.

5345 American History. (3-0) A study of selected topics in American history.

5347 Texas History. (3-0) A seminar based on selected topics in the history of Texas.

5349 Diplomatic History of the United States. (3-0) A seminar based on selected topics in American diplomatic history.

5350 Frontier in American History. (3-0) A seminar based on selected topics in the history of the frontier in American development.

5351 Modern American History. (3-0) A seminar based on selected topics in United States history since 1877.

5353 Greater Southwestern History. (3-0) A seminar based on selected topics in the history of the Greater American Southwest.

5357 The Gilded Age. (3-0) A seminar based on selected topics in late nineteenth-century American history.

5360 American Historiography. (3-0) A study of the literature of American history with some attention to the philosophies of history and the principles of historical research.

5362 Military History. (3-0) A seminar based on selected topics in military history.

5367 American Civil War. (3-0) A seminar based on selected topics in the American Civil War.

5368 The Era of Reconstruction, 1865-1877. (3-0) A seminar based on selected topics in post-Civil War American history.

5390 Problems in Historical Research. (3-0) This course is open to graduate students on an individual basis by arrangement with the department.

5395 World History. (3-0) A seminar based on selected problems and/or topics in world history.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in History 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Graduate Faculty

Brown, Ronald Conklin, Professor of History. A.B., Wabash College; A.M., Ph.D., University of Illinois. (American West, labor, social, economic)

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1 May be repeated with different emphasis
2 May be repeated with the approval of the chair of the department.
Bynum, Victoria E., Associate Professor of History. B.A., California State University, Chico; M.A., Ph.D., University of California at San Diego. (Antebellum American, African American, American Women)

Dunn, Dennis John, Professor of History and Director of the Center for International Education. B.A., M.A., John Carroll University; Ph.D., Kent State University. (Russia, East Europe)

Jager, Ronald Burke, Professor of History. B.A., University of Miami; L.L.B., M.A., University of Houston; Ph.D., University of Texas at Austin. (constitutional, urban)

Josserand, Frank Butler, Professor of History. A.B., M.A., Baylor University; Ph.D., University of Texas at Austin. (modern Europe, Germany)

Kissler, Betty Jane, Professor of History. B.A., University of Colorado; M.A., Colorado State University; Ph.D., University of Texas at Austin. (Latin America)

Liddle, William David, Associate Professor of History. B.A., George Peabody College for Teachers; M.A., Ph.D., Claremont Graduate School. (early America, 18th-century England)

Margarison, Kenneth Hilton, Jr., Professor of History. A.B., University of North Carolina; M.A., Ph.D., Duke University. (18th-century France, early modern Europe)

Pohl, James William, Professor of History. B.A., M.A., University of North Texas; Ph.D., University of Texas at Austin. (military)

Swinney, Everette, Professor of History. B.A., Ohio Northern University; M.A., Pennsylvania State University; Ph.D., University of Texas at Austin. (reconstruction, historiography)

Wilson, James Arthur, Professor of History and Chair of the Department of History. B.A., M.A., Ph.D., University of Arizona. (American West and Southwest)
Degree Programs

Majors and Degrees Offered:
- French, M.A.T.
- German, M.A.T.
- Spanish, M.A., M.A.T.

Major Programs

Master of Arts in Teaching. The Master of Arts in Teaching offers majors in French, German, and Spanish and is designed specifically to meet the needs of foreign language teachers at the secondary and community college levels. It differs significantly from the traditional Master of Arts degree program in that it features a six-week internship instead of the traditional thesis. The program provides language teachers with an opportunity to reinforce their competence in the foreign language skills, their familiarity with the foreign culture, and their mastery of current language teaching methods.

The 36-semester hour Master of Arts in Teaching degree entails 15 semester hours concentration in the language subject area, 9 hours of linguistics, 6 hours in a minor or supporting area, 6 hours of internship and foreign study, and a minimum reading knowledge of a second foreign language.

Master of Arts. The 30-hour Master of Arts degree with a major in Spanish is available to students who wish to engage in a more traditional program of literary and language studies. This degree entails 24 hours in Spanish, including the thesis, and 6 to 12 hours in a supporting area.

Courses Offered

Applied Linguistics and Language Learning (LING)

5311 Applied Linguistics. (3-0) Introduction to language theories and their implications for second language teaching, comparison of native and target languages, and applications of linguistic principles to teaching methods.

5313 Language Methods, Media, and Testing. (3-0) Study of current methods in second language teaching: training and practice in writing performance objectives and instructional sequences, use and demonstration of modern media and techniques in teaching, and testing language skills.

5315 Psycholinguistics. (3-0) Studies and comparisons of first and second language acquisition, aspects of bilingualism, interrelationship of language and culture, and their implications for the language learner.

5390 Individual Studies in Applied Linguistics and Language Learning. (3-0) This course is generally open only to graduate students with special needs. Students select a topic in line with their special interests and requirements.

Prerequisites: Formal application for the course in the semester before it is to be taken and approval by the department Chair.

French (FR)


5306 Studies in Early French Culture and Thought. (3-0) Various cultural themes in the works of representative scholars, writers, and artists from the Middle Ages.

\footnote{May be repeated once with different topic for additional credit.}
through the eighteenth century. 5306A Middle Ages through Sixteenth Century. 5306B Seventeenth and Eighteenth Centuries.

5307\textsuperscript{\textdagger} Studies in Modern French Culture and Thought. (3-0) Various cultural themes in the works of representative scholars, writers, and artists from the nineteenth and twentieth centuries. 5307B Twentieth Century.

5309\textsuperscript{\textdagger} Advanced Conversation, Composition, and Grammar. (3-0) Course designed to improve and refine oral and written skills, based mainly on contemporary mass media materials. 5309A Conversation. 5309B Composition.

5390\textsuperscript{\textdagger} Studies in French Culture, Language, or Literature. (3-0) Offers students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. Course is generally available only to graduate students with special needs.

Prerequisite: Approval by the department Chair. Applications must be submitted prior to the registration period each semester.

5600 Internship and Foreign Study. (6-0) An independent study project of at least six week's duration at a foreign institution, consisting of lectures, observations, and interviews relevant to the student's major and interests of the language teacher.

Prerequisite: Completion of all course requirements for the Master of Arts in Teaching with a major in French. An intensive French program in the United States may be substituted with departmental approval.

German (GER)

5305\textsuperscript{\textdagger} The Age of Revolution. (3-0) An intensive examination of the society, culture, and politics of the period, emphasizing literary works of Enlightenment, Classicism, and Romanticism, and encompassing a survey of the periods of a) Despotism and Idealism, and b) Romanticism. Collateral readings and reports.

5306\textsuperscript{\textdagger} Foundations of German Civilization. (3-0) An intensive study of the development of German culture and civilization found in extant works of the periods, encompassing a survey a) from the Beginnings to the Reformation, and b) from the Reformation to the Age of Absolutism. Collateral readings and reports.

5307\textsuperscript{\textdagger} Modern German Culture and Literature. (3-0) A comprehensive investigation of the forces that shaped modern Germany as reflected by significant works of major writers and thinkers of the periods a) from 1848 to 1918, and b) from the Weimar Republic to the Present. Collateral readings and reports.

5309\textsuperscript{\textdagger} Advanced Conversation, Composition, and Grammar. (3-0) A course designed to improve oral and written skills. 5309A Conversation: Practice based mainly on contemporary mass media materials. 5309B Grammar and Composition: Practice in translation, stylistics, and free composition.

5390\textsuperscript{\textdagger} Studies in German Culture, Language, or Literature. (3-0) Offers students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. Course is generally available only to graduate students with special needs.

Prerequisite: Approval by the department Chair. Applications must be submitted prior to the registration period each semester.

5600 Internship and Foreign Study. (6-0) An independent study project of at least six week's duration at a foreign institution, consisting of lectures, observations, and interviews relevant to the student's major and the interests of the language teacher.

Prerequisite: Completion of all course requirements for the Master of Arts in Teaching with a major in German. Candidates may substitute an intensive German program conducted in the United States with departmental approval.

\textsuperscript{\textdagger} May be repeated once with different topic for additional credit.
Spanish (SPAN)

5304 Studies in the Spanish Language. (3-0) Studies in the history and structure of modern Spanish.

5306 Studies in Spanish Peninsular Literature. (3-0) Selected works of Spanish literature which reflect lasting cultural values. a) Medieval and Golden Age: realism and idealism; b) Modern Spanish thought: the individual in Spanish history and society.

5307 Studies in Spanish-American Literature. (3-0) An examination of outstanding modern works relevant to social, historical, and political development. a) Central and South America: Emphasis on Nobel Prize winners, Gabriela Mistral, Pablo Neruda, and Miguel Angel; b) Mexican and Mexican-American: literary interrelationships.

5308 Studies in Hispanic Culture. (3-0) Aspects of culture reflected in works of scholars, writers, artists, and the mass media. a) Spanish Peninsular: civilization from its origins to the present; b) Spanish-American: historical development, social problems, art and folklore of Hispanic U.S., Mexico, Central and South America.

5309 Advanced Conversation, Composition, and Grammar. (3-0) 5309A Conversation. 5309B Composition and Grammar.

5390 Studies in Spanish Culture, Language, or Literature. (3-0) Offers students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. Course is generally available only to graduate students with special needs.

Prerequisite: Approval by the department Chair. Application must be submitted prior to the registration period each semester.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Spanish 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

5600 Internship and Foreign Study. (6-0) An independent study project of at least six week's duration at a foreign institution, consisting of lectures, observations, and interviews relevant to the student's major and the interests of the language teacher.

Prerequisite: Completion of all course requirements for the Master of Arts in Teaching with a major in Spanish.

Graduate Faculty

Brister, Louis Edwin, Professor of German. B.A., Mississippi State University; M.A., Ph.D., University of Texas at Austin.

Champion, James Joseph, Professor of Spanish. B.S., Michigan State University; M.S., Ph.D., University of Michigan.

Echeverria, Miriam Balboa, Associate Professor of Spanish. B.A., Universidad de Concepcion, Chile; M.A., Ph.D., University of Washington.

Fischer, Robert Allen, Associate Professor of French and Chair of the Department of Modern Languages. B.A., M.A., University of Cincinnati; Ph.D., Pennsylvania State University.

Galvan, Robert Arispe, Professor of Spanish. B.A., Trinity University; M.A., University of Texas at Austin; Ph.D., Tulane University.

Heudier, Jean-Pierre, Assistant Professor of French. B.A., University of Montana; M.A., Brigham Young University; Ph.D., University of Colorado.

1 May be repeated once with different topic for additional credit.
McCoy, Ingeborg Ruberg, Professor of German. B.A., Southwest Texas State University; M.A., Ph.D., University of Texas at Austin.

Nanfito, Jacqueline Clare, Assistant Professor of Spanish. B.A., Saint Mary’s College of Notre Dame; M.A., University of Michigan; Ph.D., University of California at Los Angeles.

Perry, Robert Charles, Lecturer In Spanish. B.A., Spring Hill College, M.A., University of Texas at Austin; Ph.D., University of Colorado.

Reeves-Marquardt, Dona Rae, Professor of German. B.A., M.A., Ph.D., University of Texas at Austin.

Ruiz, Maria de Jesus Paez de, Associate Professor of Spanish. B.A., University of Puerto Rico; M.A., Ph.D., Louisiana State University.

Ugalde, Sharon Elizabeth, Professor of Spanish. B.A., University of California at Davis; M.A., Ph.D., Stanford University.
Department of Philosophy

While the Department of Philosophy offers no graduate courses, members of the department’s graduate faculty are available to serve as advisers on thesis committees.

Graduate Faculty

**Geuras, Dean John**, Associate Professor of Philosophy. A.B., Columbia University; M.A., Ph.D., University of Colorado.

**Hutcheson, Peter Wesley**, Assistant Professor of Philosophy. B.A., University of West Florida; Ph.D., University of Oklahoma.

**Joy, Glenn Clarence**, Professor of Philosophy. B.A., Seattle Pacific College; M.A., Ph.D., University of Texas at Austin.

**Luizzi, Vincent Lawrence**, Professor of Philosophy and Chair of the Department of Philosophy. B.A., University of Rochester; J.D., Boston University School of Law; Ph.D., University of Pennsylvania.
Department of Political Science

Degree Programs

Majors and Degrees Offered:
- Political Science, M.A., M.Ed.
- Public Administration, M.P.A.

Certification Offered:
- Lawyer's Assistant Program

Major Programs

The graduate programs in the Department of Political Science offer a choice of degrees. The Master of Arts degree consists of 21-24 hours of political science, including the thesis, and a 6-9 hour minor. The Master of Education degree is a non-thesis program consisting of a 21-hour major in political science and a 15-hour minor, or a split minor of 9 and 6 hours. The Master of Public Administration degree is a 39-semester hour program consisting of a core of 30 hours including 3 hours of applied research and a 9-hour career support area selected from Administration of Allied Health Services, Administration of Criminal Justice Systems, General Public Administration, Government Information Systems, Human Resources Administration, International Relations, Legal and Judicial Administration, Public Finance Administration, Public Personnel Administration, and Urban Planning. A 3-hour public service internship is required for pre-service students in the MPA program. The 3 hours of internship are in addition to the 39-hour MPA degree program. The Lawyer's Assistant Program is a 24 semester hour postgraduate certificate program including internship.

With a large full-time departmental faculty, you have the opportunity for a close relationship with your professors. The university is a depository for federal and state government documents as well as a member of CORAL (Council for Research and Academic Libraries).

Public Administration. The 30-hour MPA core includes the following courses:
- Political Science 5304 (twice);
- Political Science 5311;
- Political Science 5314;
- Political Science 5315;
- Political Science 5318; one course selected from Political Science 5321, Political Science 5322, or political Science 5323; Political Science 5330; one course selected from Political Science 5340, Political Science 5341, or Political Science 5343; and Political Science 5397. Political Science: Public Administration

Background. Background work (Political Science 5350, a special seminar that provides a comprehensive background in American political institutions) will be required for MPA students with no hours of upper-division credits in Public Administration or Political Science. For MPA students who have no statistics background, 3 hours of undergraduate credit in applied statistics will be required. Students must complete the undergraduate statistics requirement prior to enrolling in Political Science 5304. Students must earn a grade of "B" or better in each required background course.

Comprehensive Examination. An oral comprehensive examination over course work and the applied research project will be required for completion of the MPA degree requirements.

Applied Research Project. The applied research project (Political Science 5397) is a required research paper for the MPA degree. Students who intend to register for Political Science 5397 must prepare a prospectus to include a statement of the problem, research design, specification of data, research questions, and a representative bibliography and submit same to the supervising instructor prior to registration for the course. Approval for registration for the course must be obtained in writing from the
instructor the semester before enrollment. The research paper produced must be approved by a three-member committee. The student is required to complete an oral examination over the applied research project before the committee.

Public Administration: Applied Research Project

Students who do not satisfactorily complete the course work requirements by the specified semester deadlines must consult with their instructor regarding procedures to be followed. Deadlines are furnished in the instructor syllabus each semester. Students who have dropped the course or received a failing grade will be required to register for the course. Students who fail Political Science 5397 must receive the approval of the graduate adviser prior to reenrolling in the course. Departmental policy limits reenrollments in this course to a maximum of three times.

Prerequisite: A grade of "B" or better in Political Science 5304B.

Admission Policy

International students, as defined in the front section of this catalog, must have a TOEFL score of 550 or better before being considered for admission. This requirement is not waived for an international student who has a degree from a university in the United States.

Political Science Program. Any student considered for conditional admission, whether the minimum grade-point average admission requirement identified in the "Admission Policies" section of this catalog is met or not, must have a GRE General score of 900 or better before the application file can be reviewed for admission to the Master of Arts or to the Master of Education degree programs.

Public Administration Program. No student will be considered for admission to the MPA program without a Graduate Record Examination score.

Regular admission — MPA student. Any student with a grade-point average of 2.75 or above (on a 4.0 scale) on the last 60 semester hours of undergraduate work before the baccalaureate and a GRE score of 900 (Verbal and Quantitative portions combined), or any student with a grade-point average of at least 2.50 but less than 2.75 (on a 4.0 scale) on the last 60 semester hours of undergraduate work before the baccalaureate and a GRE score of 1000 (Verbal and Quantitative portions combined), normally will be granted regular admission status.

Students with complete admission documents (transcripts, application, and test scores) who do not meet the above minimum requirements may apply for conditional admission.

Conditional admission — MPA student: Applications for conditional admission are reviewed by the Conditional Admissions Review Committee (CAR) in the public administration program. In order to apply for conditional admission, a student must:

a. submit an Application for Admission to the Graduate School to the SWT Office of Graduate Studies and Research;

b. have completed the General portion of the GRE and have the official score reported to the SWT Office of Graduate Studies and Research;

c. submit a request for consideration of conditional admission to the MPA Director, Public Administration Program, Southwest Texas State University, San Marcos, Texas 78666-4616, stating the reasons for consideration of admission;

d. provide evidence of writing skills to the CAR Committee as required by the committee.

The CAR Committee will recommend the stipulations and requirements for conditional admission. Students who are admitted conditionally must make a grade of "B" or better in each course for their first 12 hours of course work including background courses. When the conditions have been met the CAR committee will recommend regular admission status to the Dean of the Graduate School.

International student admission — MPA program: International students, as defined in the front section of the Graduate Catalog, must have an Admission Index Score (AIS) of 1325 or better to be considered for regular admission to the MPA program. The AIS is an equally weighted score that is composed of the GRE (Verbal and
Quantitative portions combined), the TOEFL (current Test of English as a Foreign Language score must be at least 550), and the conversion of the grade-point average on the last 60 semester hours of undergraduate credit taken before receipt of the baccalaureate degree. The grade-point-average is calculated by multiplying the 60 semester hours by the quality points assigned for the respective letter grade, i.e., “A”, four points; “B”, three points; “C”, two points; and “D”, one point. The AIS must be equivalent to the requirements for regular admission and applied in the same manner.

Submission of the TOEFL and Test of Written English (TWE) scores is required for admission to all graduate programs. This requirement is not waived for an international student who has a degree from a university in the United States.

A score of 550 or above is required on the TOEFL, and a score of 3 or above is required on the TWE. International students should be aware that the TOEFL and TWE scores are reported only for a period of two years after examination. If the student has completed these examinations prior to two years before application for admission, new scores will have to be submitted.

Certificate Program

Lawyer's Assistant Program. The Lawyer's Assistant Program is a post-graduate non-degree program available to students who have a baccalaureate degree and a minimum 2.75 grade-point average (based on your last 60 undergraduate semester hours of letter grade work earned before receipt of the degree). Applicants to this program must also successfully complete an interview with the Director of the Lawyer's Assistant Program. To receive a certificate in this program, you must complete a 24-semester hour curriculum consisting of the following:

Required courses:

- Political Science 5379-6379
- Political Science 5387-6387
- Political Science 5394-6394

Electives (you will select 9 hours):

- Political Science 5377-6377
- Political Science 5390-6390
- Political Science 5392-6392
- Political Science 5395-6395

Courses Offered

Political Science (POSI)

5301 Problems in American Foreign Relations. (3-0) Seminar based on selected topics in American foreign policy and United States involvement in international relations.

5304 Problems in Political Theory and Methodology. (3-0) Topical seminar for the exploration of problems in political theory and/or the scope and methods of political science and public administration. Topics will vary.

5304A Problems in Political Theory and Methodology: Statistics. (3-0) Selected topics in political science and public administration methodology with special emphasis on quantitative techniques.

5304B Problems in Political Theory & Methodology: Research. (3-0) A course which emphasizes qualitative and conceptual aspects of research. Topics include: social science research paradigms, defining the research question, linking theory to

1 The internship is required of all students unless you have prior law-related experience and, with permission of the program director, elect to take a practicum (Political Science 5388-6388) in lieu of the internship.

2 May be repeated once with different emphasis and professor for additional credit.

3 May be repeated with different emphasis and professor for additional credit.
methods, field research the focus group technique, literature review and research prospectus development.

5305 Problems in Comparative Government and Politics. (3-0) The intensive study of selected areas in comparative political institutions.

5311 Public Finance Administration. (3-0) Study of the formation, management and administration of fiscal policy at all levels of government in the United States, particularly budgeting as the ultimate expression of public policy.

5312 Public Sector Economics. (3-0) Advanced study of allocation, tax, and tax incidence theories; distribution policy; fiscal federalism; public debt and debt management. Evaluation of stabilization policy and its impact on unemployment, inflation, and economic growth.

5314 Organization Theory. (3-0) Analysis of the theoretical perspectives of organizations, with particular reference to public organizations and public administration.

5315 Problems in Public Personnel Administration. (3-0) Analyses and evaluations of major personnel management problems in government; employee-management relations; inter-agency and inter-governmental relationships. Impact of automation. Evaluation of personnel systems.

5316 Collective Bargaining in the Public Service. (3-0) An examination of the historical development of public employee unions and the reaction of public employers and the effect of collective bargaining agreements on personnel policy development. The legal position of public laws concerning collective bargaining arguments as well as an analysis of organizing procedures and strategy on the part of public managers will be covered.

5317 Management Practices in Public Personnel Administration. (3-0) Examines recent developments in Public Personnel Administration. Special attention will be paid to the use of the Personnel Office as a center for job assignment, employee development, organizational development, and affirmative action. In addition, students will become familiar with specific personnel practices including the development of pay plans, job classifications, and employee manuals.

5318 Public Management and Ethics. (3-0) Analysis of Public Management principles and functions in the context of ethics and accountability, including bureaucratic discretion, constitutional values, and professionalism.

5321 Problems in Federal Intergovernmental Relations. (3-0) In-depth study of the changing patterns of intergovernmental relations in the federal system.

5322 Problems in State and Local Intergovernmental Relations. (3-0) In-depth analysis of the relationships between state governments and their constituent governments to include inter-state relations, intrastate relations, county problems, and local affairs.

5323 Problems in Municipal Intergovernmental Relations. (3-0) In-depth analysis of political and administrative problems in the areas of urban affairs and metropolitan politics.

5324 Problems in Texas Government and Politics. (3-0) An examination of current issues and problems in the politics and governmental operations of the State of Texas.

5328 Municipal Law I. (3-0) Examines the forms and functions of local government units, their sources of legal authority, their exercise of police powers, and the legislative and judicial basis of municipal decision-making. Course includes Texas and general law.

5329 Municipal Law II. (3-0) Treats the legal framework of local government financial and personnel operations. Also includes review of tort liability of local governments, their officers, and employees. Course includes Texas and general law.

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2 May be repeated once with different emphasis and professor for additional credit.
5330 Problems in Public Law. (3-0) Problems in the areas of administrative law, constitutional interpretations, court cases, judicial processes, and general matters of law.

5333 Ecology and the Politics of Scarcity. (3-0) An examination of major issues, theoretical, involved in the crisis areas of declining energy resources, arable land, water and food, amidst increasing population and pollution of the environment.

5340 Problems in American Public Policy. (3-0) Problems arising in the areas of political decision-making, executive-legislative relationships, functions of government, and regulatory activities of the government.

5341 Seminar in the Policy Process. (3-0) Critical examination of the policy process in the comparative perspective, with emphasis on analytical applications in the administrative and management environment.

5343 Seminar in Program Evaluation. (3-0) An advanced course in the application of quantitative methods to the evaluation of public policies and programs with emphasis on the administrative and management environment.

5345 Conceptual Foundations of Government Information Systems. (3-0) A study of the theoretical assumptions, conceptual foundations, and design of government information systems.


5347 Public Finance Information Systems. (3-0) Advanced theory and application of computer-based financial information systems in government; system analysis and design; hardware configurations and software attributes.

5350 Problems in American Politics. (3-0) Problems arising with respect to parties, legislation, the presidency, and political behavior.

5360 Problems in International Politics. (3-0) A course dealing with selected topics in the field of international politics.

5361 Problems in International Law and Organization. (3-0) A course dealing with selected topics in international law and/or international organization.

5370 Internship in Government. (3-0) Practical experience in the on-going work of a selected governmental unit. The student will be assigned to a unit of federal, state, regional, or local government. A research paper and a journal dealing with the internship experience must be written under the direction of a faculty member. Evaluation will be based on the research paper, journal, and work performance.

5380 Problems in the International Political Economy. (3-0) Deals with selected topics in international political economy.

5382 Seminar in International Relations Theory. (3-0) A course dealing with selected topics in geopolitics and world political geography.

5397 Applied Research Project. (3-0) Problem-oriented applied research project to fulfill non-thesis option in Master of Public Administration degree. Student will prepare a prospectus to include a statement of the problem, research design, specification of data, questions to be answered concerning problem, and a representative bibliography, and submit it to the supervising instructor prior to registration for the course.

Prerequisite a grade of “B” or better in Political Science 5304B.

5398 Directed Reading and Research. (3-0) Advanced reading and/or research on various topics in political science under the direction of a graduate faculty member.

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2 May be repeated once with different emphasis and professor for additional credit.
4 May be repeated with different emphasis for additional credit.
5399A Thesis. This course represents a student’s initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Political Science 5399B.

5399B Thesis. This course represents a student’s continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Lawyer’s Assistant Program
Students in the Lawyer’s Assistant certification program will be enrolled in the non-graduate degree credit 6000-level courses. If you are seeking a graduate degree and are not in the paralegal certification program and your graduate adviser has requested inclusion of a Lawyer’s Assistant Program course or courses on your degree outline, you must enroll in the 5000-level courses rather than the 6000-level courses. Your graduate adviser and major department will determine the total number of hours from the Lawyer’s Assistant Program curriculum which may be applied toward your master’s degree.

The ruling for possible inclusion of paralegal courses on degree outlines was effective Fall, 1979. Courses taken at either the 5000 or 6000 level prior to the 1979-1980 academic year may not be used later for degree program credit. Also, no 6000-level course can be used for degree program credit, regardless of when the course was taken.

Courses Offered
Political Science (POSI)

5377 - 6377 Criminal Law and Procedure. (3-0) Study of state and federal statutory and common law relative to the criminal justice system. Course includes a study of the criminal litigation process and procedure with emphasis on theory and practical legal assistant skill development.

5378 - 6378 Social Legislation. (3-0) Study of Texas and federal laws established by statute to remedy various social problems including worker’s compensation, unemployment compensation, bankruptcy, and commercial transactions. Course will include a study of statutory and case law development.

5379 - 6379 Legal Drafting. (3-0) Study of legal drafting styles, forms and techniques, including legal document drafting, objective, informative document drafting, and persuasive-style drafting of trial and appellate briefs.

5386 - 6386 Legal Theories and Analysis. (3-0) Study of statutory and case law development of basic legal theory including tort theory, contract theory, and evidence theory. Course is intended to assist the student in gaining knowledge of fundamental legal theory, reasoning, and analysis.

5387 - 6387 Legal Research. (3-0) A study of the American and Texas legal system including the courts and legislature; primary and secondary sources of the law including finding tools; judicial reports including court, federal and state reports and citation forms; case finding including federal, state, and supreme court digests and encyclopedias; citators, such as Shepard Citations, and digests; annotated law reports; legal periodicals, including periodical indexes and research procedure; the nature, function, and characteristics of treatises; research procedures; state and federal administrative law; federal, state, and local court rules; English legal research of Great Britain and Canada; research aids.

Footnote: 4 May be repeated with different emphasis for additional credit.
5388s - 6388s Practicum. (3-0) Involves a specialized study in a narrow area of the law. Emphasis in the course will be selected by the student and will relate to one of the elective areas of law the student has previously studied. Course is offered as a directed-research. Extensive research is assigned for the preparation of technical legal memorandum. Course is designed to give the student a specialized knowledge in a specific area of law.

5389 - 6389 Law Office Internship. (3-6) Includes lecture and seminar discussion of topics relating to problems, procedures, and ethics in the legal-working environment. Student is involved in a voluntary on-the-job internship consisting of approximately 6 hours a week to gain actual experience in the legal-working environment. Course is required unless the student has prior law-related experience and has, with the permission of the program director, elected to take a practicum in lieu of the internship.

5390 - 6390 Administrative Law. (3-3) Course deals with the origin, development and theory of Administrative Law and the agencies and tribunals established to administer the law. Emphasis is on enforcement, quasi-legislative and quasi-judicial powers of federal administrative agencies and state tribunals.

5391 - 6391 Family Law. (3-0) Emphasis is on Texas law, dealing with pre-marital contracts, marriage relationships, annulment, abortion, adoption, juveniles, Family Code, divorce, support for children, custody, separation agreements, etc.

5392 - 6392 Corporations. (3-0) A study of the federal and Texas law relative to corporations with particular emphasis on the preparation of initial and amended articles of incorporation, satisfaction of state filing requirements, preparation of drafts of stock certificates and securities, the maintaining of stock ledgers and books, the preparation of draft resolutions authorizing cash and stock dividends and stock splits, the drafting of employment agreements, and other activities necessary to the maintenance, merger, and closing of corporations.

5393 - 6393 Estates and Trusts. (3-0) Study of Texas law regarding estates and trusts with emphasis on preparation of documents relating to the administration of estates.

5394 - 6394 Litigation. (3-0) Study of statutory and case law relative to civil and criminal procedure in order to develop an understanding of litigation.

5395* - 6395* Real Estate. (3-0) Study of Texas laws concerning real property, conveyances, recordation, taxation, and sales regarding real property. Student will become familiar with various records maintained dealing with real property by public officials and will develop an understanding of the procedures by which titles are searched.

5396 - 6396 Law Office Management. (3-0) Course will cover management concepts, with emphasis on time keeping, minimum fee schedules, billing, library and retrieval systems, ethics, and other management practices applicable to utilization of Legal Paraprofessionals in law-related positions.

Graduate Faculty

Balanoff, Howard Richard, Professor of Political Science. B.A., City University of New York; M.U.P., D.E.D., Texas A&M University.

Bland, Randall Walton, Professor of Political Science. B.A., Texas A&M University; M.A., Ph.D., University of Notre Dame.

Brittain, Vicki Sue, Associate Professor of Political Science B.A., Southwestern College; J.D., Washburn University of Topeka.

5 May be repeated twice with different emphasis and professor for additional credit.
6 May be repeated with different emphasis.
Cardenas, Leonardo, Jr., Professor of Political Science and Chair of the Department of Political Science. B.S., M.A., St. Louis University; Ph.D., University of Texas at Austin.

DeSoto, William Henry, Assistant Professor of Political Science B.A., M.A., Ph.D., University of Wisconsin, Madison.

Farlow, Daniel Edward, Professor of Political Science. B.S., M.A., Sam Houston State University.

Fiore, Joseph Corrado, Assistant Professor of Political Science. B.A., Wagner College; J.D., St. John's University.

Garofalo, Charles Paul, Assistant Professor of Political Science and Director of the Master of Public Administration Program. B.A., University of Florida; M.A., Ph.D., Emory University.

Gorman, Robert Francis, Professor of Political Science. B.A., Seattle University; M.A., Ph.D., University of Oregon.

Hardin, Dale Wayne, Associate Professor of Political Science. A.B., J.D., George Washington University.

Hindson, Theodore Thomas, Associate Professor of Political Science. B.A., LaSalle University; M.A., Ph.D., University of Notre Dame.

Hofer, Martha Kay, Associate Professor of Political Science. B.A., M.A., University of North Texas; Ph.D., University of Nebraska at Lincoln.

Hull, Terry Linn, Assistant Professor of Political Science and Acting Director of the Lawyer's Assistant Program. B.B.A., J.D., University of Texas at Austin.

Kens, Paul Adam, Associate Professor of Political Science. B.A., Northern Illinois University; J.D., Ph.D., University of Texas at Austin.

Leder, Arnold, Associate Professor of Political Science. B.A., City University of New York Brooklyn College; M.A., Washington University; Ph.D., Indiana University.

Mihalkanin, Edward Styles, Assistant Professor of Political Science. B.A., Bradley University; M.A., Ph.D., The American University.

Opheim, Cynthia Slaughter, Associate Professor of Political Science. B.A., Angelo State University; M.A., Texas Tech University; Ph.D., University of Texas at Austin.

Rich, Francis Marion, Jr., Professor of Political Science. J.D., Ph.D., University of Georgia.

Shields, Patricia Mary, Professor of Political Science. B.S., University of Maryland; M.A., Ph.D., Ohio State University.

Stouffer, Willard Brewer, Jr., Professor of Political Science. B.A., Northwestern University; M.A., Miami University; Ph.D., Duke University.

Sullivan, Alfred Burke, Professor of Political Science. B.A., Dartmouth College; M.A., University of Rhode Island; Ph.D., University of Utah.

Weinberger, George Martin, Professor of Political Science. B.A., Temple University; M.P.A., D.P.A., University of Georgia.
Department of Psychology

Degree Programs

Majors and Degrees Offered:

The Department of Psychology offers neither a major nor a degree.

Major Program:

The Department of Psychology does not presently offer a major. However, a large number of graduate programs include a psychology minor or a split minor.

Interdisciplinary Studies. Courses in psychology may also be used in the university's graduate interdisciplinary studies programs. Students may contact the departmental interdisciplinary program adviser to obtain information on the requirements to complete an interdisciplinary degree. Students who will have several courses in psychology as part of their Master of Arts in Interdisciplinary Studies (MAIS) or Master of Science in Interdisciplinary Studies (MSIS) degrees should choose a member of the graduate faculty in the Department of Psychology as a member of their degree committee.

Courses Offered

Psychology (PSY)

5310 Advanced Abnormal Psychology. (3-0) Critical analysis of the definition and classification of abnormal behavior and experience and an in-depth study of theories and research on causes, remediation, and prevention.

5315 Mental Hygiene. (3-0) An examination of the dimensions of mental health with emphasis on self-awareness and personal growth. Includes a review of social and familial factors which influence self-esteem, personal adjustment, and achievement.

5317 Group Processes and Interpersonal Dynamics. (3-0) Designed to train future professionals in both the cognitive and personal issues related to group behavior.

5320 Advanced Statistics. (3-0) Review of probability theory and parametric and non-parametric statistical techniques. Emphasis on the use of these techniques to interpret behavioral research studies.

Prerequisite: A course in undergraduate statistics.

5322 Measurement Principles in School Psychology. (3-0) Basic measurement theory including test reliability, validity, and the construction and interpretation of norms. Includes a study of test construction practices and item selection techniques to enable the student to serve as a measurement consultant to the faculty of his/her school.

5330 Psychology of Language. (3-0) Development of language in children with emphasis on language perception and production and the task of learning verbal behavior. See Curriculum and Instruction 6330.

5331 The Emotional Problems of Childhood. (3-0) An examination of the characteristics of children with emotional and behavioral disorders. Includes suggestions for the alleviation of maladaptive behavior in the school setting.

5332 Treatment and Prevention of Drug Abuse. (3-0) A review of theoretical models of the addiction process. Emphasis on understanding, preventing, and treating drug abuse.

5360 Selected Topics in Psychology. (3-0) An in-depth study of a set of selected topics of great current interest in psychology. The work is done on an individual basis with a faculty member. This course is available only at the invitation of the department.

1 May be repeated once for credit if topic differs.
5361 Seminar in Addiction Studies. (3-0) An in-depth analysis of theories, research and issues related to alcohol and drug abuse treatment and prevention. May be repeated once, as topics change, with permission of the Chair.

5370 Psychology of Learning. (3-0) Basic problems in the acquisition of responses, treating with such constructs as reinforcement, extinction, retention, forgetting, problem solving, motivation, and punishment. Major theories are treated through attention to classical experiments, but greatest emphasis is given contemporary research. See Educational Psychology 5370.

5371 Learning Theory Applied to Behavior Modification. (3-0) Presents procedures for behavior modification developed from learning theory. Behavioral intervention and management techniques applicable to groups and individuals are covered, with special emphasis given to school psychology. Procedures reviewed include contingency management routines, behavioral contracting, time-out methods, and aversive therapy plans.

Prerequisite: Psychology 5370 or equivalent.

5376 Psychological Assessment I. (3-0) Standard individual tests (i.e., WISC, WAIS, BINET) of general intelligence and special abilities and achievement, their theoretical and statistical bases; construction, administration, scoring, and interpretation of these instruments. See Educational Psychology 5376.

5385 Industrial Social Psychology. (3-0) Research findings and theoretical concepts concerned with social-structured problems in organizations. Topics covered include: the system concept, characteristics of social organization, organizational effectiveness, leadership communications, and decision making.

5387 Behavioral Statistics with Computer Applications. (3-0) An extension of Psychology 5320 with emphasis on the analysis of variance, multiple correlation, and an introduction to multivariate analysis. Students will learn to use the facilities of the computer center for data analysis.

Prerequisite: Psychology 5320.

The following are offered also as courses in Curriculum and Instruction.

See the listings in the Department of Curriculum and Instruction section for the respective course descriptions:

5313 Human Growth and Development I. (3-0)
5314 Human Growth and Development II. (3-0)

The following courses are offered also in the Department of Educational Administration and Psychological Services.

See the Educational Psychology listing in the Department of Educational Administration and Psychological Services section for the descriptions:

5354 Counseling Techniques. (3-0)
5357 Individual Testing. (3-2)

Graduate Faculty

Archer, Richard Lloyd, Associate Professor of Psychology and Chair of the Department of Psychology. B.A., University of Kansas; Ph.D., Duke University.

Davis, John Michael, Professor of Psychology. B.A., M.A.T., Oklahoma City University; M.S., Ph.D., University of Oklahoma.

Fling, Sheila, Professor of Psychology. B.A., M.S., Baylor University; Ph.D., University of Texas at Austin.

Frost, Christopher James, Assistant Professor of Psychology. B.A., Baylor University; M.A., Ph.D., Boston University.
Ginsburg, Harvey Joe, Professor of Psychology. B.S., Ph.D., University of Houston.

Merryman, Sandra Stroud, Associate Professor of Psychology. B.A., George Peabody College for Teachers; Ph.D., Indiana University.

Ogletree, Shirley Miller, Professor of Psychology. B.A., McPherson College; M.A., Ph.D., University of Michigan.

Oles, Henry John, Lecturer of Psychology. B.A., Youngstown State University; M.A., Ph.D., University of Pittsburgh.

Raffeld, Paul Charles, Assistant Professor of Psychology. B.A., University of California at Los Angeles; M.A., California State University; Ph.D., University of Oregon.

Snodgrass, Gregory, Associate Professor of Psychology and Counselor in the Center for Counseling and Placement. B.A., M.S., University of Alaska; Ph.D., University of California at Los Angeles.

Stimmel, David Theron, Professor of Psychology. B.A., M.A., Southern Methodist University; Ph.D., University of Michigan.

Wheeler, Richard Wade, Professor of Psychology. B.S., M.A., Ph.D., University of Houston.

Wright, Loyd Stanley, Professor of Psychology. B.S., University of Houston; M.A., University of Texas at Austin; Ed.D., University of Illinois.
Department of Sociology

Degree Programs

Major and Degree Offered:
Sociology, M.A.T.

Major Programs
The Department of Sociology offers the Master of Arts in Teaching with a major in sociology.

Purpose. The Master of Arts in Teaching has three basic goals. The first goal is to prepare graduates for a career in one of a number of varied fields, including but not limited to corporate research, personnel work, administrative responsibility, and data analysis. The second goal is to enhance the competencies of persons who will teach in community colleges or public schools. The third goal is to provide a sound general background for those who anticipate further graduate training beyond the master’s degree.

Majors. The basic degree requirements are 37 semester hours. You must take Sociology 5100, Sociology 5308, and Sociology 5310. You will also choose either the essay option (Sociology 5380) for 3 hours credit or the thesis option (Sociology 5399A/5399B—consult thesis regulations) for 6 hours credit. The degree may be obtained by completing:
1. Twenty-eight hours in sociology and 9 hours in a minor.
2. Twenty-five hours in sociology and 12 hours in a minor.
3. Twenty-two hours in sociology, 9 hours in a first minor, and 6 hours in a second minor.

Minors. Sociology may be included as a minor field or supporting area for graduate studies in various master’s programs. Sociology is a required resource area for students in graduate programs in Educational Administration and Reading Education. Sociology students may select from a variety of approved minors. The selection process should be accomplished in consultation with the departmental graduate adviser.

Background
If you do not have undergraduate sociology education in principles (introduction), social theory, statistics, and social research, you must complete undergraduate courses in each of these areas. Dependent on the extent of your undergraduate education in sociology or related fields, you may be permitted to take up to 7 hours of selected graduate courses before completing these undergraduate requirements.

Financial Aid
The Department of Sociology provides financial aid by employing graduate students as student assistants and research assistants. In addition, the department employs certain qualified Master of Arts in Teaching students as graduate teaching assistants when positions are available.

Courses Offered
Sociology (SOCI)

5100 Pro-Seminar in Sociology. (1-0) An examination of contemporary issues in sociology as a discipline. This course is required for all beginning MAT students in the first long semester of enrollment.

5307 Advanced Statistics for the Social Sciences. (3-0) Application of advanced statistical theory and methods to the analysis of social data.
Prerequisites: Sociology 3307 or equivalent with grade of “B” or better.
5308 Seminar in Research Methods. (3-0) The application of research methods to social science with emphasis on direct, practical experience in research.

5310 Teaching Sociology. (3-0) Objectives, methods, and materials of instruction in the sociology curriculum. Relation of sociology to other disciplines.

5311 Selected Problems in Sociology Instruction. (3-0) Seminar or individual study projects concerned with selected problems in the teaching of sociology.

5316 Seminar in Deviation and Social Problems. (3-0) A systematic analysis of contemporary social problems and various types of social deviation. Emphasis is on the socialization process as it relates to social problems and human deviation. The sociological explanation of underlying factors will be stressed.

5319 Seminar in Social Psychology. (3-0) A critical appraisal of the major theories and theorists found in Social Psychology with emphasis on their application to contemporary social and psychological issues.

5320 Seminar in Demography. (3-0) A seminar in the study of population with emphasis on sources of demographic data, techniques of demographic analysis, and population composition and forecasts.

5337 Seminar in the Family. (3-0) An analysis of selected topics with respect to contemporary family structure and processes.

5343 Seminar in Criminology. (3-0) An analysis of theories and research related to the crime problem with particular emphasis on the United States. Emphasis will include a study of the role of punishment, corrections, and the reform of offenders. Special consideration will be given to influential social conditions which play a part in crime causation and prevention.

5349 Seminar in Drugs and Society. (3-0) A sociological examination of the social context of drug abuse with emphasis on the social factors, processes, and institutions that impact drug abuse. Applications of sociological theories and research methods will be studied.

5353 Seminar in the Community. (3-0) A study of contemporary urban society with emphasis on understanding the social structure as a prerequisite to planning and problem solving at the community level.

5363 Seminar in Medical Sociology. (3-0) A seminar on selected topics of human health and health care organizations. Topics to be stressed include: social causes and consequences of morbidity and mortality, professionalization and socialization of health care practitioners, organization of health institutions, and demographic changes in health problems and needs.

5370 Seminar in Multi-Cultural Relations. (3-0) Examines the dynamics of dominant-subordinate social groups. Focuses on racial, ethnic, and class differences.

5371 Directed Study. (3-0) Course of independent study open to individual students only at the invitation of the faculty member with the approval of the department Chair and the graduate adviser.

5373 Workshop in Sociology. (3-0) Selected topics in sociology for intensive examination utilizing a variety of sociological resources and methods. 5373A Theory and Methods. 5373B Social Gerontology. 5373C Death and Dying.

5376A Images of Women. (3-0) This course, one of two multidisciplinary team-taught women's studies courses, is a survey of the changing images of women in the U.S. since 1800 through the eyes of historians, writers, artists, orators, the media, and educators.

5376B Realities of Women. (3-0) This course, one of two multidisciplinary team-taught women's studies courses, is a study of the realities faced by women in the U.S. today — including biological and psychological differences in males and females,

1 May be repeated once with different emphasis for additional credit.
politics and law, the work force, and the home. Gender roles in societies outside the U.S. will also be examined.

5380 Sociological Essay. (3-0) Directed study of a specific sociological topic requiring the student to apply skills and knowledge gained in course work.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Sociology 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Graduate Faculty

Day, Susan Bland, Associate Professor of Sociology. B.A., M.A., University of Oklahoma; M.Phil., Ph.D., University of Kansas.

Ellis, Ann Marie, Assistant Professor of Sociology. B.A.E., M.A., University of Florida; Ph.D., University of North Texas.

Forbes, Douglas, Assistant Professor of Sociology. B.S. Ed., M.A.T., Southwest Texas State University; Ph.D., University of Texas at Austin.

Ford, Ramona Louise, Associate Professor of Sociology. A.B., Baker University; M.A., Indiana University; M.A., New School for Social Research; Ph.D., Southern Illinois University.

Jorgenson, David Einar, Professor of Sociology. B.A., Texas Lutheran College; M.A., Texas Christian University; Ph.D., University of North Texas.

Matlock, Donald Thomas, Professor of Sociology and Chair of the Department of Sociology/Anthropology. B.S., M.S., University of North Texas; Ph.D., University of Texas at Austin.

Newsom, Rollo Kern, Professor of Sociology. B.S., University of Texas at Austin; M.S., University of North Texas; Ph.D., University of Texas at Austin.

O'Connell, John Joseph, Associate Professor of Sociology. A.B., M.A., S.T.B., St. Louis University; Ph.D., Loyola University of Chicago.

Romo, Harriett Durr, Assistant Professor of Sociology. B.A., University of Texas at Austin; M.A., University of California at Los Angeles; Ph.D., University of California at San Diego.

Schultz, Clarence Carven, Professor of Sociology. B.S., M.A., Southwest Texas State University; Ph.D., University of Texas at Austin.

Short, Alvin Phillip, Professor of Sociology. B.S., Southwest Missouri State College; M.A., Ph.D., Emory University.

Williams, Dorie Giles, Assistant Professor of Sociology. B.A., M.A., University of Texas at Arlington; Ph.D., University of Texas at Austin.
School of Science
Department of Biology

Degree Programs

Major and degrees offered:
Biology, M.A., M.Ed., M.S.

Major Programs

Graduate students in Biology must elect one of four degree options: the Master of Science with or without a thesis, the Master of Arts, or the Master of Education.

Thesis Options. The thesis-oriented Master of Science and Master of Arts degrees require a minimum of 30 semester hours of course work including the thesis (5399A/B). Biology 5295 and three one-hour seminars (5110) are required.

Non-Thesis Options. A 36-hour non-thesis Master of Science degree is available for individuals having a minimum of two years of teaching experience and who intend to teach as a career. A minimum of eight courses in biology and four courses in the minor are required.

The 36-hour non-thesis Master of Education degree requires the completion of seven courses in biology. The required 15-hour minor can be in a single discipline or can be split with 9 hours in the first minor and 6 hours in the second minor. Students working toward a Master of Education are required to complete the three one-hour seminar courses.

Minors. An optional minor may be required.

A biology major selecting a formal minor in science has the following options: aquatic biology, marine biology, biochemistry, chemistry, computer science, mathematics, or physics. A non-formal supporting minor for the Master of Science might be selected with the approval of the supervising professor and the graduate adviser.

Prerequisites and Admission Policy

All applicants must complete the GRE as outlined earlier in this catalog prior to being considered by the department. Students are encouraged to take the advanced GRE in biology.

The Department of Biology requires that a student have a GPA of 2.75 on the last 60 undergraduate semester hours taken before receipt of the bachelor’s degree and a GRE (General) score of at least 1000 in order for unconditional admission to be considered. Course deficiencies and their rectification are determined by the individual thesis committees.

Students with grade-point averages between 2.5 and 2.75, as well as those whose GRE general scores are either unavailable or less than 1000, may petition the department for conditional admission. Admission in these cases will be decided by the departmental graduate committee and graduate adviser on the basis of interviews, letters of recommendation, research experience or other considerations to indicate possession of qualifications and abilities necessary to complete course requirements.

A graduate student seeking a graduate biology minor is expected to have introductory botany, introductory zoology, and four other biology courses, two of which are advanced (3000-4000 level).

Conditional admission may be given (1) if a student has a GPA of at least 2.50 but less than 2.75 (on the last 60 undergraduate semester hours taken before receipt of the bachelor’s degree) and a GRE (General) score of at least 1000 or (2) if the student has an insufficient background in biology. The conditions of admission vary according to the individual's qualifications and will be determined by the area adviser and the graduate adviser.
Prospective students must contact faculty members (or area of interest advisors) who might serve as their major advisors prior to being admitted to the graduate program. Admission to the Graduate School does not guarantee acceptance by the Department.

Students accepted to the Department must select a major advisor and establish a thesis committee within their first long semester after course work begins. A thesis proposal signed by the departmental chairperson must be submitted within the second full semester after admission to the department.

**Areas of Emphasis**

Thesis problems are available in the following areas of emphasis and specialties:

- **Aquatic Biology**
  - parasitology, limnology, fisheries management, aquatic ecology, ichthyology, pollution biology, plankton physiology, ground water ecology, fish physiology;
- **Botany**
  - plant anatomy, development, ecology, morphology, mycology, physiology, phycology, pollination, systematics, taxonomy;
- **Genetics**
  - Drosophila genetics, mutagenesis, molecular genetics, evolution;
- **Marine Biology**
  - marine invertebrates, marine ecology, systematics;
- **Microbiology**
  - immunology, virology, pathogenic microorganisms, aerobiology, bacterial physiology;
- **Physiology**
  - vertebrate physiology, cellular physiology, cytology, ecological physiology, endocrinology;
- **Science Education**
  - earth science, biological instruction and teaching, curriculum, development and evaluation;
- **Wildlife Management**
  - wildlife biology and management, ornithology, mammalogy, vertebrate natural history, community ecology;
- **Zoology**
  - entomology, ornithology, vertebrate morphology, paleontology, biomechanics, embryology, histology, ecology, systematics.

**Financial Aid**

Financial assistance through the Department of Biology is available in the form of graduate laboratory instructorships. Support is limited to two years. Applications for instructorships are available from the department chairperson, and completed applications are due by March 1 to be considered for the following school year. A limited number of research assistantships are available.

**Courses Offered**

**Biology (BIO)**

- **5110 Seminar in Biology.** (1-0) A graduate student majoring in biology may be required to take a minimum of three semester hours in this course in addition to the standard requirements for the advanced degree. (F,S)
- **5110B Botany.** (1-0)
- **5110E Ecology.** (1-0)
- **5110L Limnology.** (1-0)
- **5110Q Physiology.** (1-0)
- **5110W Wildlife Biology.** (1-0)
- **5110Z Zoology.** (1-0)

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1 This course may be repeated for credit.
5295 Fundamentals of Research. (2-0) Designed to acquaint the beginning graduate student with materials and methods of research in the biological sciences. It is recommended that a graduate student (thesis option) majoring in biology take this course the first semester in residence. (S)

5301 Evolution. (3-0) Basic genetic principles applied to natural selection, adaptation, populations and speciation. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems, and certain other selected topics. (S,SS)
Prequisite: Biology 3450 or its equivalent.

5305 Nature Study. (3-3) Designed for elementary teachers who intend to use natural materials in the teaching of elementary science. Includes the study of birds, insects, trees, flowers, elementary astronomy, and environmental resources. May not be credited toward a biology major, minor, or secondary teaching field. (S,SS)

5318 Topics in Botany. (3-2) Selected topics in plant anatomy, cytology, ecology, morphology, mycology, phycology, physiology, and taxonomy.

5319 Topics in Ecology. (3-3) Significant concepts of ecology are studied in depth and applied to areas that are poorly understood.

5319E Stream Ecology. (3-3) Class covers ecological theories, concepts and processes occurring at the population, community and ecosystem levels of organization in running water. Laboratory includes sampling methods, descriptive and comparative studies, experiments, critical discussion of literature and experience in writing manuscripts.
Prequisite: Instructor's permission.

5319P Plankton. (3-3) Ecology and taxonomy of algae, zooplankton, and bacteria found in freshwater plankton ecosystems. (S even years)
Prequisite: Instructor's permission.

5335 Fisheries Management. (2-4) An introduction to principles and techniques in fisheries management. Includes the study of artificial reproduction, carrying capacity, productivity, sampling procedures, population estimates, mortality, survival, growth rates, and commercial and sport fisheries. (S even years)
Prequisite: Biology 4415-5415 or instructor's permission.

5336 Parasitology of Fishes and Other Aquatic Animals. (2-3) The natural history and quantitative ecology of protozoan and metazoan parasites of fishes and other aquatic animals. Laboratory will involve field work, development of skills in the parasitological examination of aquatic animals, and the techniques of parasite identification with emphasis on fish parasites. (offered on demand)
Prequisite: Biology 5425 or Biology 5415 or Biology 5413, or instructors permission.

5350 Topics in Physiology. (3-0) Selected advanced topics in plant, microbial, and animal physiology.

5350D Topics in Embryology. (3-0) Selected advanced topics in embryology and development.
Prequisites: Biology 1420 and Biology 3490 or instructor's permission.

5350E Topics in Endocrinology. (3-0) Selected advanced topics in endocrinology.
Prequisites: Biology 2430 or Biology 3421 or instructor's permission.

5350F Topics in Fish Physiology. (3-0) Selected advanced topics related to the physiology of fish.
Prequisites: Biology 2430 or Biology 3421 or instructor's permission.

5350M Topics in Microbial Genetics (3-0) Selected advanced topics in microbial genetics.
Prequisites: Biology 3440 and Biology 3450.

2 This course may be repeated once for credit.
5361 **Biology of Water Pollution.** (2-3) Biological aspects of water pollution and purification will be stressed. Attention is given to the response of aquatic communities to changes in water quality. Current pollution problems, toxicity bioassays, biological techniques, and methods for monitoring pollution are considered. (S odd years)

Prerequisites: Biology 3460 and Biology 4470, or Biology 5470 or instructor's permission.

5362 **Environmental Impact Analysis.** (3-0) Current government regulations regarding environmental impact, content of environmental impact statements, how to proceed with an impact study, application of ecological principles to impact studies, and steps in the review process for environmental impact statements are considered. (SS odd years)

Prerequisite: Instructor's permission.

5390 **Problems in the Biological Sciences.** Open to graduate students on an individual basis by arrangement with the faculty member concerned; problems in the areas of systematics and environmental biology, physiology and biophysics, and cytology and genetics.

5399A 3 **Thesis.** This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Biology 5399B.

5399B 3 **Thesis.** This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted.

5401 **Methods and Techniques of Biological Science.** (3-3) The study of modern ideas and methods of teaching biological sciences in secondary schools. Laboratory investigations emphasize the essential elements of instruction for biological science recommended by the Texas Education Agency.

5410 **Field Biology of Plants.** (3-3) Ecological relationships and natural history of plants, including historical geology, geography, soils, vegetational regions, and surface geology of central Texas. (F,SS)

5411 **Morphology of the Vascular Plants.** (3-3) The structure, life cycles, and evolution of fossil and living vascular plants. Emphasis is on topics such as the origin of land plants, evolution of the ovule, the flower, and fruit. (S, even years)

5412 **Plant Anatomy.** (3-3) The anatomy of vascular plants stressing descriptive, developmental and comparative aspects of seed plants and the anatomical adaptations of plants to environmental factors. (S, odd years)

5413 **Parasitology.** (3-4) The biology and biological significance of the common parasites of man and animals. (S)

Prerequisite: Biology 1420.

5415 **Ichthyology.** (3-3) An introduction to the morphology, taxonomy, natural history, and evolution of fishes. Field trips will be made to collect specimens, and laboratory periods will be devoted to morphological and systematic analyses. (F,SS)

Prerequisite: Biology 1420.

5420 **Natural History of the Vertebrates.** (3-3) Environmental relationships and natural history of vertebrates. Emphasis is on evolution taxonomy, speciation, behavior, and morphology. Laboratory will include field trips for the study and collection of vertebrates in their natural habitats. Students will assemble a representative collection of vertebrates. (S,SS)

5421 **Ornithology.** (3-3) Introduction to anatomy, behavior, ecology, and identification of the birds of Texas. Laboratory will emphasize field studies of birds and their habitat requirements. (S)

5422 **Mammalogy.** (3-3) The taxonomy, distribution, ecology, behavior, and evolution of mammals with particular emphasis on wild mammals of the Southwest.

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3 Students working towards the MA or MS with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized.
Laboratory will emphasize anatomy, identification, preparation of specimens, and field exercises in methods of population analysis. Students will assemble a representative mammal collection. (S)

5423 Wildlife Management. (3-3) Applications of ecological principles and natural history concepts to the management of wildlife habitats and populations. Laboratory will involve demonstrations and practice exercises with wildlife management techniques and instrumentation, and field trips to observe wildlife management projects. (F)

5424 Topics in Wildlife Biology. (3-3) Concepts in wildlife biology are studied in depth with emphasis on their application to the management of wildlife species.
Prerequisites: Biology 4423, Biology 4421, and Biology 4422.

5425 Biometry. (3-3) Basic principles of statistical methods as applied to biological problems such as sampling techniques, analysis of data, experimental design, and population dynamics. Emphasis will be on practical application. Three-hour laboratory will provide supervised solution of statistical problems using hardware and software tools of the trade as well as supervised experience with statistical simulations on color graphics microcomputers. (F,S)
Prerequisite: One year of mathematics.

5426 Immunology. (3-4) A study of the immune response, antigen/antibody reactions, major histocompatibility complex, and immunopathology. (S even years)
Prerequisite: Biology 3442 recommended.

5430 Topics in Mycology. (3-0) Selected topics covering the Kingdom Fungi. Topics to include aquatic mycology, marine mycology, ascomycetes, basidiomycetes, macrofungi, and slime molds.

5440 Pathogenic Fungi. (2-4) A general study of fungi with special emphasis on the taxonomy, sources, incidence, medical factors, and host-pathogen relationships of pathogenic fungi. (S)
Prerequisite: Biology 3440 or consent of the instructor.

5441 Cellular Physiology. (3-3) Advanced cellular biology, including membrane physiology, thermodynamics, energy transduction and distribution, and cellular movement in non-muscle and muscle cells. Laboratory includes discussion of current research and exercises in cellular physiology. (S)
Prerequisites: Completion of Biology 2460 or Biology 3440, Chemistry 2410 and Chemistry 2420 (or Chemistry 2330, Chemistry 2130, and Chemistry 2450.) Concurrent enrollment in Chemistry 4385 recommended.

5442 Experimental Techniques. (3-3) Use of methods and instruments applicable to biological investigations, including colorimetry, UV-spectrophotometry, fluorescence, flame and atomic absorption spectrophotometry, paper, gas, gel filtration and ion exchange chromatography, radioactive counting, and electrophoresis. (F)

5445 Pathogenic Microbiology. (2-4) Pathogenic bacteria and their relationship to disease, emphasizing identification of selected groups of pathogens, epidemiology, and the biological basis for resistance. (F,S)
Prerequisite: Biology 3440 or consent of the instructor.

5450 Physiological Ecology of Animals. (3-3) Course brings together the principal concepts of environmental physiology of animals inhabiting the major ecological realms of the earth (land, air, sea, and fresh water). The biological problems associated with living in the various ecological realms will be discussed, and the biochemical and physiological adaptations of animals to their diverse habitats will be studied. (S)

2 May be repeated once for credit.
5454 Plant Ecology. (3-3) Physiological ecology and community structure and function in the organization of terrestrial plant ecosystems. Quantitative vegetational sampling and the use of field and laboratory physiology equipment are included. (S)
Prerequisites: Biology 4416, Biology 3465 or Biology 2460.

5460 Advanced Invertebrate Zoology. (3-3) Course will be concerned with specific taxa and special aspects of invertebrate zoology. Topics offered include evolution of organ systems, systematics, larval types, aquaculture, and other special topics of natural history. (S)
Prerequisite: Biology 3470 or permission of instructor.

5463 Toxicology. (3-3) The adverse effects of chemicals on living organisms, populations, and ecosystems. (SS, odd years)
Prerequisites: Biology 2430 or Biology 3421, and Biology 2460 or Biology 4441/5441.

5465 General Entomology. (3-3) Principles of morphology, physiology, and taxonomy of insects. Laboratory time will be devoted to a taxonomic study of the common orders and families of insects. (F)
Prerequisite: Biology 1420.

5470 Limnology. (3-3) Physical, chemical and biological factors affecting productivity in lakes, ponds, and streams. Limnological sampling methods, chemical and biological analysis of samples, and hydrographic surveying are included in the laboratory. (F)
Prerequisite: One year of chemistry or instructor’s permission.

5475 Molecular Biology and Genetics. (3-3) Lecture: Prokaryotic genetic analysis, structural aspects of proteins, bacteriophage genetics, genetic code, gene expression, enzymology of DNA replication and repair. Laboratory: Bacterial growth and maintenance, isogenic strain construction, genetic transformation, transduction, conditional mutagenesis, genetic complementation, restriction enzyme digestion and agarose gel electrophoresis. (F)
Prerequisite: Biology 3450.

5476 Advanced Genetics. (3-2) Lecture: Molecular biology of development and cell differentiation, use of molecular genetic techniques in medical diagnosis, DNA recombination, transgenic mouse applications, immunogenics and genetic mechanisms of carcinogenesis. Laboratory techniques include use of restriction endonucleases, electrophoresis, and DNA ligation and clone selection.
Prerequisites: Biology 3450 and Biochemistry, or permission of the instructor. (SS)

5480 Cytology and Microtechnique. (3-3) Study of cellular ultrastructure and electron microscope technique. Lecture portion of course will cover cytology of all cell types and theoretical aspects of light microscopy and electron microscopy. Laboratory portion will train students to proficiency in transmission electron microscopy (TEM). (F)

5481 Internship in Biological Laboratory Technologies. (0-15) The student will participate in the work of a selected biology unit (private, commercial, or governmental). A research paper reporting the internship experience conducted at the biological unit under the supervision of a faculty member will be required. This course may be credited toward a biology major with prior approval of the biology adviser and Chair.

5485 Scanning Electron Microscopy. (2-6) Course on theory of operation and practical use of the scanning electron microscope as applied to biological materials. Course includes aspects of specimen preparation, photomicroscopy, micrograph interpretation, and microscope maintenance procedures. Course will provide student with training necessary to independently do scanning electron microscopy. (SS)
Graduate Faculty

**Alexander, Mary Louise**, Professor of Biology. B.A., M.A., Ph.D., University of Texas at Austin. (genetics-mutagenesis)

**Aron, Gary Michael**, Professor of Biology. B.S., M.S., St. John's University; Ph.D., Pennsylvania State University. (microbiology, virology)

**Arsuffi, Thomas Lee**, Assistant Professor of Biology. B.S., M.S., Kent State University; Ph.D., New Mexico State University. (invertebrate and fungal ecology, stream and wetlands ecology)

**Baccus, John Thomas**, Professor of Biology. B.S.Ed., M.S., Midwestern University; Ph.D., University of North Texas. (wildlife management, mammology, community ecology)

**Barnes, Paul W.**, Assistant Professor of Biology. B.A., Augustana College; M.S., Ph.D., University of Nebraska, Lincoln. (plant ecology)

**Benjamin, Caroline Pitcher**, Associate Professor of Biology. B.A., State University of New York at Binghamton; M.A., Ph.D., Indiana University. (embryology, developmental biology)

**Groeger, Alan Walter**, Assistant Professor of Biology. B.S., Purdue University; M.S., Central Michigan University; Ph.D., University of Oklahoma. (limnology, aquatic sciences)

**Hannan, Herbert Herrick**, Professor of Biology. B.S.Ed., M.A., Southwest Texas State University; M.A.T., Brown University; Ph.D., Oklahoma State University. (limnology)

**Horne, Francis Ray**, Professor of Biology. B.S., Texas Tech University; M.S., Ph.D., University of Wyoming. (invertebrate physiology, biochemistry)

**Huffman, David George**, Professor of Biology. A.B., West Virginia University; M.S., Marshall University; Ph.D., University of New Hampshire. (fish parasitology)

**Koehn, Robert Dean**, Professor of Biology. B.S., Bethel College; M.S., Kansas State Teachers College; Ph.D., University of Texas at Austin. (mycology, phycology)

**Koke, Joseph Ralph**, Professor of Biology. B.S., M.S., University of Oregon; Ph.D., University of Alberta, Edmonton. (cell biology, physiology)

**Lemke, David Edward**, Associate Professor of Biology. B.S., Bucknell University; Ph.D., University of Texas at Austin. (plant taxonomy)

**Lewis, Melanie Carol**, Professor of Biology and Supervisor of Student Teaching. B.S., Newcomb College of Tulane University; M.S., University of Houston; Ph.D., University of Texas at Austin. (earth science, science education)

**Longley, Glenn**, Professor of Biology and Director, Edwards Aquifer Research and Data Center. B.S., Southwest Texas State University; M.S., Ph.D., University of Utah. (limnology, pollution biology)

**Meyer, George Herbert**, Professor of Biology. B.S., Baylor University; M.A., University of Texas at Austin. (microbial physiology)

**Northington, David Knight**, Visiting Associate Professor of Biology and Director of the National Wildflower Research Center. B.A., Ph.D., University of Texas at Austin. (plant taxonomy)

**Ostlund, Karen Louise**, Associate Professor of Biology. B.A., M.A., Ph.D., University of Minnesota. (science education)

**Rose, Francis L.**, Professor & Chair. B.S., M.S., University of Georgia; Ph.D., Tulane. (ecology and physiology of amphibians and reptiles)
Rosenblum, Paul Martin, Assistant Professor of Biology. B.A., Beloit College; M.A., Anna Maria College; Ph.D., Boston University. (fish physiology and endocrinology)

Sissom, Stanley Lewis, Professor of Biology. B.S., M.S., University of North Texas; Ph.D., Texas A&M University. (invertebrate zoology, ecology)

Tarsitano, Samuel Francis, Associate Professor of Biology. B.A., Queens College; Ph.D., City University of New York. (functional morphology of vertebrates, evolution)

Upchurch, Garland R., Jr., Assistant Professor of Biology. B.S., University of Nebraska; M.S., Ph.D., University of Michigan. (paleobotany)

Tuff, Donald Wray, Professor of Biology. B.A., San Jose State University; M.S., Washington State University; Ph.D., Texas A&M University. (entomology, parasitology)

Walter, Ronald Bruce, Assistant Professor of Biology. B.S., M.S., Ph.D., Florida State University. (molecular genetics)

West, Sandra Sturdivant, Assistant Professor of Biology. B.S., M.S., University of Houston; Ph.D., Texas A&M University. (science education)

Whitenberg, David Calvin, Professor of Biology. B.S., M.S., Ph.D., Texas A&M University. (plant physiology, biochemistry, seed physiology)

Whiteside, Bobby Gene, Professor of Biology. B.S., M.A., Ph.D., Oklahoma State University. (ichthyology, fisheries management)

Williamson, Paula Sue, Assistant Professor of Biology. B.S., Southwest Texas State University; M.A., Ph.D., University of California at Santa Barbara. (plant anatomy, physiology, systematics)

Young, Willard Cooper, Professor of Biology. B.S., M.A., University of Texas at Austin; Ph.D., University of Colorado at Boulder. (fresh water ecology)

3 May be repeated once with different emphasis for additional credit.
Department of Chemistry

Degree Programs

Major and Degrees Offered:
Chemistry, M.A., M.Ed., M.S.

Major Programs
The department offers a program of lectures, laboratories, and research leading to the Master of Science, the Master of Arts, and the Master of Education degrees. These programs are designed to train professional chemists, enhance the training of chemistry teachers, and provide adequate background for further advanced study.

The Master of Science degree (30 semester hours) requires a major of 21-24 hours (includes 6-semester hours of thesis credit) and an optional minor of 9-6 hours from within the School of Science. Generally, an undergraduate major in chemistry is required for admission into this program.

The Master of Arts degree has the same hour requirement as the Master of Science degree with thesis, but the minor may be outside the School of Science. A concentration in biochemistry is open to those with an undergraduate minor in chemistry and major in biology.

The Master of Education degree requires 36 hours but no thesis.

Research Areas
The graduate faculty conducts research in numerous areas of the five basic fields of chemistry. Specific research areas include:

**Analytical**
- atomic absorption, chromatography, electrochemistry, spectral methods;

**Biochemistry**
- enzyme isolation, enzyme mechanisms, protein synthesis;

**Inorganic**
- synthesis and structure of organometallic compounds, boron-nitrogen compounds, coordination chemistry, bioinorganic chemistry;

**Physical**
- solution properties, x-ray crystallography, surface chemistry.

Research Facilities
Research instruments available include NMR, UV, IR, X-ray, atomic absorption, liquid and gas chromatographs, mass spectrometer, osmometers, high-speed centrifuges, magnetic susceptibility apparatus, and a VAX computer system.

Admission Policy
1. Usually, students with 2.75 grade-point averages on undergraduate course work (calculated as identified earlier in this catalog) and GRE General scores of 950 are routinely admitted.

2. Students with grade-point averages between 2.50 and 2.75, as well as those whose GRE General scores are either unavailable or less than 950, may petition the department for conditional admission. Admission recommendations in these cases will be decided by a departmental committee (chaired by the graduate adviser) on the basis of interviews, letters of recommendation, laboratory ability, and the availability of space in the departmental research laboratories.

Financial Aid
Graduate students are encouraged to work as laboratory teaching assistants. A limited number of research assistantships are also available at pay similar to that of laboratory teaching assistants.
Courses Offered

Chemistry (CHEM)

5110 Seminar in Chemistry. (1-0) A course designed to acquaint the graduate student with current research areas in chemistry.

5189 Postgraduate Research. (0-3) Course is designed for students with one or more degrees in chemistry who desire further experience in the chemistry laboratory. A program of work involving synthesis and/or analysis will be outlined and supervised by a member of the faculty.

5275 Laboratory Techniques in Biochemistry. (1-6) Experiments illustrating principles and methods of biochemistry are performed. Emphasis is placed on the use of instrumentation employed in research on animal, microbial, and plant tissues.
   Prerequisites: Chemistry 3410, Chemistry 4375 or Chemistry 4385.
   Corequisite: Chemistry 4375 or Chemistry 4385 or Chemistry 5375 or Chemistry 5385.

5321 Advanced Organic Chemistry. (3-0) Study of the relation of the following topics to structure and reactions of organic compounds: bonding, stereochemistry, acid-base concepts, physical organic chemistry, reactive species, and mechanisms.
   Prerequisites: Chemistry 2420, Chemistry 3340 (or Chemistry 4465 and permission of instructor).

5325 Selected Topics in Physical Chemistry. (3-0) The topics offered periodically are: 5325A Thermodynamics and Kinetics. The concepts of classical thermodynamics are discussed and their applications to chemistry are illustrated. Theoretical concepts and experimental methods of chemical kinetics are presented. 5325B Nuclear and Radiochemistry. Topics discussed include nuclear structure, radioactivity, induced nuclear reactions, detection and measurement of nuclear radiation, and interaction of nuclear radiation with matter.


5333 Spectroscopy. (3-0) Study of various spectrometric techniques in qualitative and structural analysis of chemical substances.
   Prerequisites: Chemistry 2420, Chemistry 3340 (or Chemistry 4465 and permission of instructor).

5336 Methods and Techniques of Physical Science. (2-4) Course includes methods of instruction and laboratory techniques of topics recommended by the Texas Education Agency to be included in a physical science course in public schools. See Physics 4336-5336.

5337 Methods and Techniques of Physical Science. (2-4) Includes methods of instruction and laboratory techniques of topics recommended by the Texas Education Agency to be included in a physical science course in public schools. See Physics 4337-5337.

5345 Chemical Bonding and Structure. (3-0) A study of modern theories of chemical bonding on both organic and inorganic systems. Topics include both valence bond and molecular orbital approaches. Huckel molecular orbital theory and Ligand field theory are included.
   Prerequisite: Chemistry 3340.

5350 Selected Topics in Organic Chemistry. (3-0)
   Prerequisites: Chemistry 2420 and Chemistry 3440.

5351 Polymer Chemistry. (3-0) Discusses polymer terminology, synthesis, and characterization.

1 May be repeated twice for total of 3 semester hours credit.
2 May be repeated as needed.
5352 Chemical Engineering. (3-0) Course compares roles of the chemical engineer and chemist, contrasts engineering units and metric units, and covers dimensional analysis, steady state material balance and principles of energy conservation.
Prerequisites: Chemistry 3340, Chemistry 3410, and Physics 1420 or Physics 2420.

5360 Selected Topics in Analytical and Inorganic Chemistry. (3-0) The topics offered periodically are:
- 5360A Separation Methods in Chemical Analysis. The principles of gas chromatography and high-performance liquid chromatography are discussed with a balance between theory and practical methods necessary to effect separation.
- 5360B Organometallic Chemistry. The preparation and properties of organic derivatives of representative and transition elements are surveyed with emphasis on the correlation of structure and bonding with chemical reactivity.
- 5360D Advanced Methods of Analytical Chemistry. Methods covered include X-ray, radiochemistry, Raman spectroscopy, fluorescence spectroscopy, emission spectroscopy, and Carbon-13 NMR.
Prerequisites: Chemistry 3410, Chemistry 4440.

5361 Modern Inorganic Chemistry. (3-0) A study of contemporary topics in inorganic chemistry including kinetics and mechanisms of inorganic reactions, organometallic chemistry, homogeneous catalysis, rings, cage and cluster compounds, inorganic polymers, and bioinorganic chemistry.

5370* Problems in Chemistry. Open to graduate students on an individual basis by arrangement with the faculty member concerned.

5375 Biochemistry. (3-0) A course devoted to a study of the chemistry of carbohydrates, lipids, proteins, enzymes, and nucleo-proteins. A study of enzyme kinetics and thermodynamics of coupled reactions is included. (F,SSI)
Prerequisites: Chemistry 2420, Chemistry 3340, Chemistry 3410 or permission of the department.

5380* Selected Topics in Biochemistry. (3-0) The topics offered periodically are:
- 5380A Physical Biochemistry. A non-mathematical introduction to the physical techniques of biochemistry with emphasis on the interpretation of experimental data from electrophoresis, chromatography, immunological methods, ultracentrifugation, radioisotopes, and spectroscopy.
- 5380B Neurochemistry. An introduction to the biochemistry of nerve tissue. Topics include chemical composition, metabolism, drug action, and special senses.
Prerequisite: Chemistry 4375-5375 or Chemistry 4385-5385.

5385 Metabolism. (3-0) A study of biodegradation and biosynthesis of carbohydrates, lipids, amino acids, proteins, and nucleic acids.
Prerequisites: Chemistry 2420, Chemistry 4375, and 6 semester hours of biology or permission of the department.

5395 Fundamentals of Research. (2-3) Course is designed to acquaint the beginning graduate student with materials and methods of chemical research.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Chemistry 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

5412 Analysis and Synthesis of Organic Compounds. (3-4) Lectures and laboratories on the principles and techniques used in identification and synthesis of organic chemicals. Analytical techniques include qualitative and spectral methods.

3 May be repeated once with different emphasis for additional credit.
Graduate Faculty

Banks, Alton Joseph, Professor of Chemistry. B.A., West Georgia College; Ph.D., Vanderbilt University. (inorganic chemistry: coordination compounds, heavy metal toxicology, chemical education, computers in chemistry)

Blanda, Michael Thomas, Assistant Professor of Chemistry. B.A., Texas A &M University, Ph.D., Texas A&M University. (organic chemistry: biomimetic, host-guest chemistry, structure and mechanism)

Carrano, Carl Joseph, Jr., Professor of Chemistry and Chair of the Department of Chemistry. B.S., University of California at Santa Barbara; Ph.D., Texas A&M University. (inorganic chemistry: bioinorganic chemistry of iron and vanadium)

Cassidy, Patrick Edward, Professor of Chemistry and Associate Vice President for Academic Affairs. B.S., University of Illinois; M.S., Ph.D., University of Iowa. (organic chemistry: polymer synthesis, backbone reactions, property-structure relationships, high-temperature polymers)

Compton, Ross Davis, Associate Professor of Chemistry. B.S., M.S., University of North Texas; Ph.D., University of Texas at Austin. (inorganic chemistry: determination of structure and bonding in organometallic and inorganic compounds)

Fitch, John William, III, Professor of Chemistry. B.S., Ph.D., University of Texas at Austin. (inorganic chemistry: vinylmetallics, quasi-aromatic organometallics and carbenoids)

Irvin, James Duard, Professor of Chemistry. B.S., Gonzaga University; Ph.D., Montana State University. (biochemistry: protein metabolism, enzymology)

Lippmann, David Zangwill, Associate Professor of Chemistry. B.S., M.A., University of Texas at Austin; Ph.D., University of California at Berkeley. (physical chemistry: thermodynamics, kinetics)

Muir, Mariel M., Professor of Chemistry and Dean of the School of Science. B.A., Grinnell College; Ph.D., Northwestern University. (inorganic chemistry: structure and reactivity of transition metal complexes of biological importance; photochemistry of complexes and clusters)

Perry, Reeves Baldwin, Professor of Chemistry. B.S., East Texas State University; M.S., University of North Texas; Ph.D., University of Texas at Austin. (physical chemistry: surface chemistry-absorption kinetics of surfactants on mineral surfaces; interfacial tension of hydrocarbon-aqueous surfactant solutions)

Rudzinski, Walter Eugene, Professor of Chemistry. B.S., University of Detroit; Ph.D., University of Arizona. (analytical chemistry: chromatography, electrochemistry, measurement of thermodynamic parameters of ion pairs and metal chelates)

Supple, Jerome Henry, Professor of Chemistry and President of the University. B.S., M.S., Boston College; Ph.D., University of New Hampshire. (organic chemistry: heterocycles, stereochemistry, metal catalysis)

Willms, Charles Ronald, Professor of Chemistry. B.A., University of Texas at Austin; M.A., Southwest Texas State University; Ph.D., Texas A&M University. (biochemistry: amino acid and protein chemistry)

Yager, Billy Joe, Professor of Chemistry. B.S., Southwest Texas State University; M.S., Ph.D., Texas A&M University. (physical organic chemistry: solvent effects on organic reactions)
Department of Computer Science

Degree Programs

Major and Degrees Offered:
Computer Science, M.A., M.Ed., M.S.

Major Programs
The program courses are designed to prepare students for doctoral research, college teaching, public school teaching, or for careers in computer science. All course work in computer science applied to any graduate degrees must be at the graduate (5000) level. The Department of Computer Science offers the Master of Science, Master of Arts, and Master of Education degrees, all with computer science majors. The core courses in computer science consist of graduate level computer science courses designated by the graduate adviser.

Master of Science. The Master of Science degree requires:
1. Completion of at least 18 semester hours of course work in the computer science major, including the core.
2. One of these two options:
   a. Thesis option (30-semester hour degree): Completion of an approved minor of at least 6 hours in the sciences (or the student not selecting a minor may replace the minor with 6 hours of computer science courses). A thesis is also required and must be accepted by a departmental supervisory committee of graduate faculty members, the department chair, and the Dean of the Graduate School. The thesis program requires a minimum enrollment of 6 hours in thesis. Thesis credit requirement information is provided in the “Degree Information ‘Thesis Requirements’” section of this catalog.
   b. Non-thesis option (36-semester hour degree): Completion of a minimum of 9 additional major hours in computer science plus completion of an approved minor of at least 9 hours in the sciences (or the student not selecting a minor may replace the minor with 9 hours of computer science courses).

Master of Arts. The Master of Arts degree requires:
1. Completion of at least 18 semester hours of course work in the computer science major, including the core.
2. Completion of an approved 6 hour minor. The minor may or may not be from the sciences.
3. One of these two options:
   a. Thesis option (30-semester hour degree): Completion of a thesis which is accepted by a departmental supervisory committee of graduate faculty members, the department chair, and the Dean of the Graduate School. The thesis program requires a minimum enrollment of 6 hours in thesis. Thesis credit requirement information is provided in the “Degree Information ‘Thesis Requirements’” section of this catalog.
   b. Non-thesis option (36-semester hour degree): Completion of a minimum of 9 additional major hours in computer science plus an additional 3 hours of approved course work in the minor field.

Master of Education. The Master of Education degree with the computer science major is a 36-hour non-thesis degree. Program entrance requires a teaching certificate in computer science plus:
1. Completion of at least 27 semester hours of course work in the computer science major, including the core.
2. Completion of a 9-hour minor consisting of approved courses in education.
Background Requirements

Students are required to make up background courses if they do not have enough undergraduate computer science background. The minimum undergraduate background requirements are:

1. Twenty-six hours of Computer Science course work: Computer Science 1108, Computer Science 1318, Computer Science 2308, Computer Science 2318, Computer Science 3358, Computer Science 3408, Computer Science 4318 or Computer Science 4328, and 6 hours of advanced Computer Science electives (3000-4000 level). These courses must be completed with no grade less than "C" and no more than two "C"s.

2. Six hours of Mathematics course work: Mathematics 2358 and Mathematics 3398. These courses must be completed with no grade below "C".

The background requirements may be reduced if evidence is presented which shows that the applicant has taken equivalent courses elsewhere prior to enrollment at SWT. Background work must be completed before enrolling in graduate courses.

Admission Policy:

Applicants to the computer science program are generally required to:

1. Meet the Graduate School's grade-point average requirement of no less than 2.75 on a 4.0 scale.

2. Have a Graduate Record Examination (GRE) score of 1000, Verbal and Quantitative portions combined, with minimum scores of 300 on the Verbal and 600 on the Quantitative portions. Official GRE scores must be on file in the Graduate School before an application will be considered.

3. Meet any other requirements of the Graduate School.

4. Applicants must meet the following application deadlines for the semesters indicated:

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<th>Semester</th>
<th>Deadline</th>
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<td>Fall Semester</td>
<td>July 15</td>
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<tr>
<td>Spring Semester</td>
<td>November 15</td>
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<tr>
<td>Summer Session I</td>
<td>April 15</td>
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<tr>
<td>Summer Session II</td>
<td>June 1</td>
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5. International applicants must meet the following application deadlines for the semesters indicated:

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<tr>
<td>Summer Session II</td>
<td>May 15</td>
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No international student applications will be processed after the published deadlines.

Individuals may apply for non-degree seeking “special student” admission from the Graduate School to enroll in computer science background courses before completing the GRE requirement.

Contacts

To obtain more information about master's programs, to apply for graduate admission, or to apply for non-degree special student admission, contact:

The Graduate School
Southwest Texas State University
601 University Drive
San Marcos, TX 78666-4605
Telephone: (512) 245-2815
For more information about the graduate program in computer science, contact:

Department of Computer Science
Attn.: Master’s Program Adviser
601 University Drive
San Marcos, TX 78666-4616
Telephone (512) 245-3409

Minor in Computer Science
A graduate minor in computer science requires 6-9 semester hours of graduate
credits in addition to these background course requirements: Computer Science 1108,
Computer Science 1318, Computer Science 2308, Computer Science 2318,
Computer Science 3358, Mathematics 2358, and Mathematics 3398.

Certification
The university’s undergraduate catalog provides information regarding available
teacher certification programs.

Courses Offered

Computer Science (CS)

5306 Advanced Operating Systems. (3-0) A study of modern operating systems
including network distributed, or real-time systems.
Prerequisite: Computer Science 4328.

5308 Advanced Systems Programming. (3-0) Design of system software including
operating systems, compilers, network and communication systems, etc. A programming
project using software engineering principles is required.
Prerequisite: Consent of instructor.

5310 Network and Communication Systems. (3-0) A study of network and communication systems. Verification and/or implementation of protocols will be required.
Prerequisite: Undergraduate course in networks.

5314 Computers in Society. (3-0) Study of the history, cultural impact, and use of computers. Topical issues such as privacy, computer ethics, computer security, applications of computers, and the contributions of various people to the computing field are explored.

5318 Concepts of Programming Languages. (3-0) Programming language processors, data types, sequence control, data control, storage management.
Prerequisite: Computer Science 3358.

5326 Advanced Studies in Human Factors of Computer Science. (3-0) Professional level presentation of techniques and research findings related to human-computer interaction. May be repeated once with different emphasis for additional credit.
Prerequisite: Computer Science 3358.

5328 Data Structures. (3-0) Advanced topics in data structures including searching in strings, tries, dynamic hashing and others. Emphasis is on recent developments and implementations.
Prerequisite: Computer Science 3358.

5329 Algorithm Design and Analysis. (3-0) Introduction to algorithm design and analysis, computational complexity, Np - completeness theory.
Prerequisite: Computer Science 3358.

5332 Data Base Theory and Design. (3-0) Computer system organization for the management of data; data models, data model theory, optimization and normalization; integrity constraints; query languages; intelligent database systems.
Prerequisites: Computer Science 3358 and Computer Science 4328.
5338 Formal Languages. (3-0) Advanced topics in automata theory, grammars, Turing machines, decidability, and algorithmic complexity.
Prerequisites: Computer Science 3358 and Mathematics 3398.

5339 Computational Geometry. (3-0) A study of algorithms, applications, and implementation issues of computational geometry, with topics taken from hyperplane arrangements, convex hulls, Voronoi diagrams, triangulations, intersections, range searching, and other areas.
Prerequisites: Computer Science 3358 and Mathematics 3398.

5340 Computer Modeling and Simulation. (3-0) A study of simulation models, simulation languages and techniques for simulation of various kinds of physical systems.
Prerequisites: Undergraduate probability and statistics course plus consent of instructor.

5346 Advanced Artificial Intelligence. (3-0) Knowledge representation; knowledge engineering; reasoning; parallel and distributed AI; connectionist models; machine learning and intelligent databases; implementation of systems in high-level AI languages.
Prerequisite: Computer Science 3358 or consent of instructor.

5347 Expert Systems. (3-0) Object oriented and other intelligent programming techniques will be covered. The course will focus on production system control strategies, knowledge bases, knowledge acquisition, heuristic search, and uncertainty management.
Prerequisite: Computer Science 5346 or consent of instructor.

Prerequisite: Computer Science 3408.

5349 Concurrent Programming. (3-0) Principles and practices of concurrent programming, including synchronization and communication issues, and a survey of languages suitable for implementing concurrent solutions.
Prerequisite: Computer Science 4328 or consent of instructor.

5350 Dependability of Computer Systems. (3-0) Modern techniques for designing and analyzing computer systems for reliability, safety, and security. Emphasis will be placed on theoretical and practical aspects of modeling, design and implementation for critical applications.
Prerequisite: Computer Science 5349 or consent of instructor.

5351 Parallel Processing. (3-0) Introduction to the design and analysis of parallel algorithms, parallel architectures and computers.
Prerequisites: Computer Science 3408 and Computer Science 4328.

5352 Distributed Computing. (3-0) Study of advanced topics in distributed systems: concurrency control and failure recovery, management of replicated data, distributed consensus and fault tolerance, remote procedure calls, naming and security.
Prerequisite: Computer Science 4328.

5364 Advanced Real-Time Computing Applications. (3-0) A study of problems, concepts, and techniques in software systems that serve equipment with time dependent requirements. The emphasis is on the use of real-time practical applications.
Prerequisite: Computer Science 5349 or consent of instructor.

5368 Topics in Computer Science. (3-0) Selected topics in computer science from advanced areas of computer systems, operations research, data structures, or computer design. Material will be varied according to the needs and interests of the class. May be repeated with different emphasis for additional credit.
Prerequisite: 6 hours senior-level computer science or consent of instructor.
5370 Knowledge Representation and Reasoning. (3-0) A study of semantic networks and their use for representing syntactic, semantic and domain knowledge; conceptual graphs; scripts; conceptual depending theory; data versus knowledge representation; data base semantics and inference; representation of basic knowledge of mathematics and physics; representation of knowledge for problem solving; qualitative models and reasoning, approximate reasoning, and temporal reasoning.
Prerequisite: CS 5346 or consent of instructor.

5371 Machine Learning. (3-0) An overview of machine learning; learning from examples; methodology of inductive learning; learning by analogy; learning by experimentation; role of heuristics in learning; learning from observations and conceptual clustering; learning by being told and knowledge acquisition.
Prerequisite: Computer Science 5346 or consent of instructor.

5372 Intelligent Interfaces. (3-0) A study of interfacing human and machine intelligence, modeling of intelligent interfaces, human interactive information processes, direct manipulation, dialogue design, and knowledge-based supervisory control for real life applications.
Prerequisite: Consent of instructor.

5373 Computer Vision. (3-0) Introduction to computer vision and applications; image processing and modeling, boundary detection; region growing, texture processing; motion understanding and optical flow; representation of two and three dimensional structures; graph-theoretic algorithms; scene labeling and constraint relaxation; representation of world knowledge and its use in scene interpretation.
Prerequisite: Computer Science 5346 or consent of instructor.

5374 Neural Networks. (3-0) A study of neural computing, including basic concepts, algorithms, and applications; back propagation and counter propagation networks; Hopfield networks; associative memories; massively parallel neural architectures; adaptive resonance theory; optical neural networks connectist approaches.
Prerequisite: Consent of instructor.

5388 Advanced Computer Graphics. (3-0) A study of the algorithm and data structures used in representing and processing visual data.
Prerequisite: Computer Science 4388.

5391 Survey of Software Engineering. (3-0) A study of the software life cycle with emphasis on system analysis and design. Methodologies based on data flows and on objects will be surveyed. A component on professional ethics is included.
Prerequisite: Consent of instructor.

5392 Formal Methods in Software Engineering. (3-0) The use of design and specification languages in producing software systems. Emphasis is placed on proving correctness of designs and implementations.
Prerequisite: Consent of instructor.

5393 Software Quality. (3-0) The latter half of the software life cycle is discussed. Topics include testing, performance evaluation, and software metrics. Appropriate software tools are studied and used.
Prerequisite: Computer Science 5392.

5394 Software Engineering Practicum. (3-0) Students produce a software project of significant size in a team environment. All aspects of the software engineering course sequence are integrated and put into practice.
Prerequisites: Computer Science 5392 and Computer Science 5393.

5395 Independent Study in Advanced Computer Science. (3-0) Open to graduate students on an independent basis by arrangement with the faculty member concerned.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Computer Science 5399B.
5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Graduate Faculty

Ali, Moonis, Professor of Computer Science and Chair of the Department of Computer Science. B.Sc., M.Sc., Ph.D., Aligarh University. (intelligent systems and interfaces)

Davis, Wilbon Pinkney, Professor of Computer Science. B.S., M.S., Southwest Texas State University. (software engineering, computer graphics, microprocessors)

Durrett, Herman John, Jr., Associate Professor of Computer Science. B.S., University of Houston; Ph.D., University of Colorado. (human factors, microcomputers)

Early, Grady Gaston, Professor of Computer Science. B.A., Arlington State College; M.S., Ph.D., Texas A&M University. (computer science education, algorithm analysis, computing theory)

Goss, Robert John, Assistant Professor of Computer Science. B.S., State College of Arkansas; M.S., West Texas State University. (computer center management)

Hazlewood, Carol Tewes, Assistant Professor of Computer Science. B.A., State University of New York at Binghamton; M.A., Syracuse University; Ph.D., University of Texas at Austin. (computational geometry, numerical analysis)

Hwang, Caneo Jinshong, Professor of Computer Science. B.S., M.S., National Taiwan University; Ph.D., Louisiana State University. (knowledge engineering, software engineering, data base)

McCabe, Thomas Francis, Associate Professor of Computer Science. B.A., Southwest Texas State University; M.S., Ph.D., Texas A&M University. (computer networks, distributed systems)

Mossaad, Karam Mahmoud, Assistant Professor of Computer Science. B.S., Cairo H. Ind. Institute; M.S., George Washington University; Ph.D., University of Texas at Austin. (computer architecture, logic design, parallel processing, data communication, fault tolerant computing, interconnected networks, performance evaluation, simulation)

Ogden, Robert David, Associate Professor of Computer Science. B.S., Southern Methodist University; M.A., Ph.D., Washington University. (fractal images, scientific computing, information theory)

Peng, Wuxu, Assistant Professor of Computer Science. B.S., University of Science and Technology of China; Ph.D., Pennsylvania State University. (distributed/parallel computing, communication protocols, program verification, data base systems, operating systems)

Sawey, Ronald Marvin, Associate Professor of Computer Science. B.S., M.A., Ph.D., University of Texas at Austin. (operations research, mathematical modeling)

Slomka, Jeffrey Alan, Assistant Professor of Computer Science. B.A., University of California at San Diego; M.S., University of Kentucky; M.S., Southwest Texas State University. (computer science education, data structures)
Department of Mathematics

Degree Programs

Major and Degrees Offered:
Mathematics, M.A., M.Ed., M.S

Major Programs

The Department of Mathematics offers the Master of Arts, Master of Science, and Master of Education degrees with a major in mathematics. Students are advised to contact the mathematics graduate adviser for full program details.

**Master of Arts.** The Master of Arts degree consists of a minimum of 30-semester hours including at least 24 hours (which includes a thesis) in mathematics with a minor which may or may not be in the science area.

**Master of Science.** The Master of Science degree consists of a minimum of 24 semester hours plus a thesis or a minimum of 36 hours without a thesis. Non-thesis Master of Science students who select the degree option which includes a minor will have a minimum of 27 hours in the major and a minimum of 9 hours in the minor.

Master of Science students may select a minor or non-minor degree option. Those choosing the non-minor option may select in consultation with their graduate adviser all their degree courses from the mathematics curriculum. The minor for a Master of Science degree must be from the science area.

**Master of Education.** The Master of Education degree consists of 36 hours without a thesis. The minor for the Master of Education degree usually must be taken outside the science area. Mathematics majors pursuing the Master of Education may, as an option, select a 15-semester hour minor in developmental education.

Goals

The program courses are designed to develop studies appropriate to preparing students for doctoral research, community college teaching, public school teaching, or careers in applied mathematics or statistics.

Faculty

The faculty has specialists in algebra, analysis, applied mathematics, bifurcation theory, differential equations, differential geometry, non-linear functional analysis, number theory, mathematics education, quadratic forms and topology. The library collection is extensive in both journals and reference works with current journals available.

Financial Aid

Mathematics graduate students are encouraged to work as assistant instructors. The stipends for these assistantships are comparable to the national norms and generally require teaching two courses per semester. Information may be obtained by writing the department Chair.

Courses Offered

Mathematics (MATH)

51001 Seminar in Basic Mathematics. (1-0) Study and analysis of selected topics in basic mathematics as found in college teaching.

51011 Seminar in Remedial Mathematics. (1-0) Study and analysis of selected topics in remedial mathematics as found in college teaching.

51021 Seminar in College Algebra. (1-0) Study and analysis of selected topics in college algebra as found in college teaching.

This course does not count toward any degree in the Department of Mathematics.
5111 Selected Problems in Mathematics Instruction. (1-0) Seminar on individual study projects concerned with selected problems in the teaching of mathematics.

5301 Partial Differential Equations. (3-0) Theory and application of partial differential equations; deduction of the differential equation; use of vector and tensor methods; equations of the first order; wave equations; vibrations and normal functions; Fourier series and integral; Cauchy's methods, initial data; methods of Green; potentials; boundary problems; methods of Riemann-Volterra; characteristics.
Prerequisites: Mathematics 3323 and consent of the instructor.

5303 History of Mathematics. (3-0) A study of the development of mathematics and of the accomplishments of men and women who contributed to its progress. Cannot be used on a degree plan for MA or MS degree.

5304 Topics in Mathematics for the Secondary Teacher. (3-0) A study of current trends and topics found in the secondary school mathematics curriculum with the goal of improving the mathematical background of the secondary teacher. Course content will be flexible and topics will be selected on the basis of student needs and interests. Cannot be used on degree plan for MA or MS degree.

5305 Advanced Course in Probability and Statistics. (3-0) Advanced topics in probability and statistics. See Computer Science 5305.
Prerequisite: Mathematics 4305.

5306 Ring Theory. (3-0) Topics in field theory, separable extension, and Galois Theory.
Prerequisite: A grade of a least C in Mathematics 4307.

Prerequisite: A grade of at least C in Mathematics 4307.

5311 Foundations of Differential Equations. (3-0) A critical study of the foundations of derivation equations, operator spaces and such basic topics. Recent developments in this field will be investigated and independent investigation will be encouraged.
Prerequisites: Mathematics 3323 and consent of the instructor.

5312 Functions of a Complex Variable. (3-0) Modern developments in the field of functions of a complex variable.
Prerequisite: Mathematics 4315 or consent of the instructor.

5313 Field Theory. (3-0) Topics in field theory, separable extensions, and Galois Theory.
Prerequisite: A grade of at least C in Mathematics 4307.

5314 Number Theory. (3-0) Topics in algebra selected from quadratic forms, elementary number theory, algebraic or analytic number theory, with material adapted to the needs of the class.
Prerequisite: A grade of a least C in Mathematics 4307.

5317 Problems in Advanced Mathematics. (3-0) Open to graduate students on an individual basis by arrangement with the mathematics department. A considerable degree of mathematical maturity is required.

5319 The Theory of Integration. (3-0) A course in the theory of integration with special emphasis on Lebesgue integrals. A course in the theory of real variables, with a knowledge of point set theory, is desirable as a background for this course. A considerable amount of mathematical maturity is required.
Prerequisites: Mathematics 3380 and consent of the instructor.

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1 May be repeated with different emphasis for additional credit.
2 May be repeated once with different emphasis for additional credit.
3 This course does not count toward any degree in the Department of Mathematics.
5329 General Topology. (3-0) Point-set topology with an emphasis on general topological spaces; separation axioms, connectivity, the metrization theorem, C-W complexes.
Prerequisite: A grade of at least C in Mathematics 4330.

5330 Topics in Topology. (3-0) Homotopy type, homotopy groups and homology groups and their relationship.
Prerequisite: Mathematics 4330 and either Mathematics 5329 or Mathematics 5331.

5331 Metric Spaces. (3-0) Point-set topology with an emphasis on metric spaces and compactness but including a brief introduction to general topological spaces.
Prerequisite: A grade of at least C in Mathematics 4330.

5332 Geometric Topology. (3-0) The fundamental group, covering spaces, classification of surfaces and some topics from the topology of manifolds.
Prerequisite: A grade of at least C in Mathematics 4330, and either Mathematics 5332 or Mathematics 5329.

5336 Topics in Applied Mathematics. (3-0) Topics selected from optimization and control theory, numerical analysis, calculus of variations, boundary value problems, special functions, or tensor analysis. Material will be varied according to the needs and interests of the class.
Prerequisites: 6 hours of advanced mathematics pertinent to topic and consent of instructor.

5373 Theory of Functions of Real Variables. (3-0) Discusses those topics that will enable the student to obtain a better grasp of the fundamental concepts of the calculus of real variables and the more recent developments of this analysis.
Prerequisite: Mathematics 3323, or Mathematics 3380.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Mathematics 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Graduate Faculty

Bandy, Carroll Luttrell, Professor of Mathematics. B.S., Arkansas Polytechnic College; M.S., University of Arkansas; Ph.D., University of Houston. (topology, differential equations)

Borm, Alfred Ervin, Associate Professor of Mathematics. B.S., M.A., University of Texas at Austin; M.A., University of Washington; Ph.D., University of Texas at Austin. (algebra, topology)

Chatfield, John Albert, Professor of Mathematics. B.S., M.A., Southwest Texas State University; Ph.D., University of Texas at Austin. (analysis, integration theory)

Curtin, Eugene, Assistant Professor of Mathematics. B.S., M.S., University College Dublin; Ph.D., Brown University. (differential geometry)

Dix, Julio Enrique, Associate Professor of Mathematics. B.A., Universidad Nacional de Colombia; M.S., Ph.D., University of Cincinnati. (numerical analysis)

Doerr, Roy Frederic, Assistant Professor of Mathematics . B.S.Ed., Southwest Texas State University; M.A., University of Texas at Austin. (mathematics education)

Edgell, John James, Jr., Professor of Mathematics. B.S., Lamar State College of Technology; M.A., Sam Houston State University; Ph.D., University of Texas at Austin. (mathematics education)

\(^2\) May be repeated once with different emphasis for additional credit.
Hazlewood, Donald Gene, Professor of Mathematics. B.A., University of Texas at Austin; M.A., M.S., Ph.D., Syracuse University. (analytic number theory)

Jia, Xing-De, Assistant Professor of Mathematics. B.S., M.S., Qufu Normal University; Ph.D., City University of New York. (combinatorics, number theory)

Jones, Kevin Stavely, Assistant Professor of Mathematics. B.A., B.S., M.A., Ph.D., University of Texas at Austin. (mathematics education)

Kennedy, Paul Anthony, Associate Professor of Mathematics and Supervisor of Student Teaching. B.A., University of Houston; M.Ed., Southwest Texas State University; Ph.D., University of Texas at Austin. (mathematics education)

McCabe, Terence William, Assistant Professor of Mathematics. B.S., M.A., Southwest Texas State University; Ph.D., University of North Texas. (differential equations)

McClung, Harry Byron, Professor of Mathematics. B.A., M.S., Ph.D., West Virginia University. (applied mathematics)

Northcutt, Robert Allen, Professor of Mathematics. B.A., M.A., Ph.D., University of Texas at Austin. (ordinary differential equations)

Passty, Gregory Bohdan, Professor of Mathematics. A.B., M.A., Ph.D., University of Southern California. (non-linear functional analysis)

Ratliff, Ernest Francis, Jr., Associate Professor of Mathematics and Director of Remediation Services. B.S., McNeese State College; M.A., Ph.D., University of Oklahoma. (algebra)

Singh, Sukhjit, Professor of Mathematics. B.A., Arizona State University; M.A., Ph.D., Pennsylvania State University. (topology)

Smith, James Dennis, Assistant Professor of Mathematics. B.A., M.A., University of Texas at Austin; Ph.D., Texas Christian University. (general topology)

Snyder, David Fred, Assistant Professor of Mathematics. B.A., Ph.D., University of Tennessee. (topology)

Spellmann, John Winston, Professor of Mathematics. B.A., Texas Lutheran College; M.A., Ph.D., Emory University. (differential equations)

Thickstun, Thomas Lusk, Professor of Mathematics. B.A., Ph.D., University of California, San Diego. (topology)

Torrejon, Ricardo Marcelo, Professor of Mathematics. B.S., Universidad de Concepcion, Chile; M.A., Universidad del Estado, Chile; M.S., Ph.D., University of Iowa. (differential equations)

Warshauer, Max Leon, Professor of Mathematics. B.A., University of Chicago; Ph.D., Louisiana State University. (quadratic forms, theoretical computer science)

Wayment, Stanley Glen, Professor of Mathematics and Chair of the Department of Mathematics. B.S., Brigham Young University; M.S., Stanford University; M.S., Ph.D., University of Utah. (analysis)

Welsh, Stewart Chalmers, Associate Professor of Mathematics. B.S., University of Strathclyde, Scotland; Ph.D., University of Glasgow, Scotland. (bifurcation theory, differential equations)
Degree Programs

Major and Degrees Offered:
Physics, M.A., M.S

Major Programs
Three degree options are available to students majoring in physics.

Master of Science. The standard program that leads to a 30-hour Master of Science degree requires 15-18 semester hours in physics, 9-6 hours in another science, and a minimum of 6 hours of thesis.

The 36-hour Master of Science degree program without a thesis is also available. This optional program requires 6 hours of course work in lieu of the thesis and 6 hours of additional course work.

Master of Arts. A third option differs from the standard Master of Science program only in that the minor of 9-6 hours need not be in another science. This 30-hour program leads to the Master of Arts degree and is not available with a non-thesis option.

Financial Aid
Assistantships are available on a limited basis, and applications should be submitted by June 1. Inquiries and/or applications for assistantships should be mailed to:
Chair, Department of Physics
Southwest Texas State University
San Marcos, Texas 78666-4616

Courses Offered
Physics (PHYS)

5110 Seminar in Physics. (1-0) A graduate student majoring in Physics is encouraged to take this course each semester, however, credit for this course does not count toward the 30 or 36 standard requirement for the advanced degree.

5311 Nuclear Physics. (3-0) The study of radioactivity, nuclear structure, binding energies, and particle accelerators. (S)
Prerequisite: Physics 4312.

5312 Quantum Mechanics, Part II. (3-0) A continuation of Quantum Mechanics, Part I, Physics 4312. Topics covered include time independent and time dependent perturbation theory, multiparticle systems, and the Pauli exclusion principle.
Prerequisite: Physics 4312 or approval of instructor.

5313 Theoretical Physics. (3-0) A survey of methods in theoretical physics as they apply to areas in classical mechanics, quantum mechanics, electrodynamics, and nuclear physics.
Prerequisites: Mathematics 3323 and Physics 3320.

5314 Statistical Mechanics. (3-0) Statistical descriptions of physical states and processes; probability distributions and quantum-mechanical density operators; entropy and thermodynamics; fluctuations and phase transitions; classical and quantum gases; correlated and indistinguishable observables; master equation, kinetic theory, diffusion and transport processes.
Prerequisite: Graduate status or approval of instructor.

5320 Solid State Physics. (3-0) An introductory course in the theory of solids.
Prerequisite: Mathematics 3323.

1 This course may be repeated for credit.
5331 Electromagnetic Field Theory, Part II. (3-0) A continuation of the introduction to electromagnetic field theory presented in Physics 4310. Topics covered include Maxwell's equations and applications, special theory of relativity, electrodynamics.
Prerequisite: Physics 4310 or approval of instructor.

5336 Methods and Techniques of Physical Science. (2-4) Methods of instruction and laboratory techniques of topics recommended by the Texas Education Agency to be included in a physical science course in public schools. See Chemistry 4336-5336.

5337 Methods and Techniques of Physical Science. (2-4) Methods of instruction and laboratory techniques of topics recommended by the Texas Education Agency to be included in a physical science course in public schools. See Chemistry 4337-5337.

5340 Advanced Dynamics, Part II. (3-0) Classical mechanics at an advanced level. Topics covered include special relativity in classical mechanics, Hamilton equation of motion, canonical transformations, and Hamilton-Jacobi theory.
Prerequisite: Physics 4313 or approval of the instructor.

5370 Problems in Advanced Physics. (3-0) Open to graduate students on an individual basis by arrangement with the Department of Physics.

5395 Fundamentals of Research. (2-6) Course is available to graduate students only at the invitation of the department.

5399A Thesis. This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Physics 5399B.

5399B Thesis. This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

COURSES IN GEOLOGY (GEOL)

5310 Topics in Environmental Geology. (3-0) Graduate interdisciplinary seminar on contemporary environment topics where geologic principles are a key to understanding the system at work and its management.

Graduate Faculty

Anderson, Robert Ernest, Professor of Physics. B.S., M.S., Texas A&M University; Ph.D., University of Texas at Austin.

Crawford, James Robert, Professor of Physics and Chair of the Department of Physics. B.S., Phillips University; M.S., University of Arkansas; Ph.D., Kansas State University.

Gutierrez, Carlos J., Assistant Professor Physics. B.S., University of Dallas, M.A., Ph.D., The Johns Hopkins University.

Jackson, William Roy, Jr., Associate Professor of Physics. B.A., Columbia University; M.A., Ph.D., Rice University.

Loewe, Mark E., Assistant Professor of Physics, B.S. University of California at Irvine, Ph.D., University of Texas at Austin.

Michalk, Victor Edward, Professor of Physics. B.S., M.S., Texas A&M University; Ph.D., Texas A&M University.

Olson, Donald Wallace, Professor of Physics. B.S., Michigan State University; Ph.D., University of California, Berkeley.

Tilton, Terry L., Assistant Professor of Geology. B.S., Earlham College, M.S., Bowling Green University, Ph.D., University of Utah.

2 May be repeated with prior approval of the department.
Interdisciplinary Studies

Interdepartmental Studies

Major and Degrees Offered:
Interdisciplinary Studies, M.A.I.S., M.S.I.S.

Degree Programs:
The university offers the Interdisciplinary Studies program leading to the degrees of Master of Arts in Interdisciplinary Studies or Master of Science in Interdisciplinary Studies and is designed for the mature student whose educational needs will be best met by a nontraditional course of study. Interdisciplinary studies programs may be comprised of courses selected from any department at SWT which offers a graduate program. The MAIS degree is available through those departments which offer the Master of Arts degree, and the MSIS degree is available through those departments which offer the Master of Science degree.

Occupational Education. Students in occupational education may pursue an MSIS degree. The Director of Occupational Education should be contacted if you plan to study through the occupational education program. Also see the section on Occupational Education in the Department of Technology for further information.

Program of Study. Each interdisciplinary studies student will be referred to a graduate adviser and assigned a committee to help plan a 39-semester hour minimum, three-module program: effective communications (9 hours), academic area (21 hours), and exit module (9 hours). All courses used in the interdisciplinary program will be drawn from the course inventory of Southwest Texas State University. A maximum of 9 hours of requirements in the academic area may be met by experience, judged either by means of refereed testing after enrollment in specific courses or by the Work/Life-Experience Evaluation Board. The exit module may be a combination of research and thesis, an internship-practicum, or a cluster of courses. Any degree plan is tentative until it has been approved by the Dean of Graduate Studies and Research.

The interdisciplinary studies program does not replace the traditional academic program in any area. Persons whose educational goals are best met by established programs should enroll in those areas. Students who wish to consider a program of interdisciplinary studies should confer with the Dean of Graduate Studies and Research or an interdisciplinary studies graduate adviser in an academic department.
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Please type or print all responses - See reverse for instructions. (This information is required for state and federal reports.)

SSN: __________________________

Date of Birth: ________ / ________ / ________

Sex: □ F □ M

Marital Status: □ Married □ Single

Legal Name: __________________________

(First) (Middle) (Last/Family) (Suffix) (Previous/Other Names)

Current Address: __________________________

(Street, Apt.) (City) (State) (Zip + 4) (County/Country)

Permanent Address: __________________________

(Street, Apt.) (City) (State) (Zip + 4) (County/Country)

Current Phone: (________)_________

Permanent Phone: (________)_________

Work Phone: (________)_________

Occupation/place of work: __________________________

Check the block which best describes your ethnic origin:

□ 1 White (non-Hispanic)

□ 2 Black (non-Hispanic)

□ 3 Hispanic

□ 4 Asian or Pacific Islander

□ 5 American Indian or Alaskan Native

□ 6 International

(Nationality): __________________________

□ 0 Other (Specify): __________________________

Citizenship/Residency:

Place of Birth: __________________________

Native Language: __________________________

Are you a U.S. citizen: □ Yes □ No

If not, are you a permanent resident? □ Yes □ No

If you are attending SWT under a Visa, please specify your visa status: __________________________

Have you resided in the Texas (other than as a college student) for the past 12 months? □ Yes □ No

Has your parent, guardian, or spouse resided in the Texas for the past 12 months? □ Yes □ No

How long have you lived at the permanent address listed above? __________________________

Which do you qualify for? □ Texas Resident Fees

□ Non-Resident/International Fees

Did your mother attend SWT? □ Yes □ No Father? □ Yes □ No

Educational History (Include work completed at SWT.)

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Full Name of School</th>
<th>School Address (City &amp; State/Country)</th>
<th>Actual Name of Diploma, Degree, Certificate, etc.</th>
<th>Major</th>
<th>Degree Date (mo/dy/yr)</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>
Southwest Texas State University believes that freedom of thought, innovation, and creativity are fundamental characteristics of a community of scholars. To promote such a learning environment, the University has a special responsibility to seek cultural diversity; to instill a global perspective in its students; and to nurture sensitivity, tolerance, and mutual respect.

APPLICATION DEADLINES
All application materials, including transcripts (or foreign schools’ mark sheets), should be received in the SWT Graduate School by the following deadlines (International applicants should have all materials submitted at least one month prior to the stated deadlines):

<table>
<thead>
<tr>
<th>Semester</th>
<th>Deadline</th>
<th>Other Session</th>
<th>Other Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>July 15</td>
<td>Summer Session I</td>
<td>April 15</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>November 15</td>
<td>Summer Session II</td>
<td>June 1</td>
</tr>
</tbody>
</table>

SOCIAL SECURITY NUMBERS
From time to time the University requires that its students and applicants for admission furnish their social security numbers. The University uses these numbers to verify identities. Disclosure of these social security numbers is mandatory. The University’s record-keeping system was established prior to January 1, 1975, pursuant to the authority given the Board of Regents, Texas State University System, in Section 95.21 of the Texas Education Code. These numbers are also solicited under the statutory authority of 42 U.S.C.A. Section 405(c) (2) (C).

CITIZENSHIP/RESIDENCY
Texas residency for tuition purposes is generally obtained by one of the following:

1. By residing in and working in Texas for 12 consecutive months immediately prior to enrollment in a college or university.
2. By being a dependent for tax purposes of a Texas resident.
3. By being classified as a Texas resident for the first 5 of 6 years immediately preceding registration.

Military personnel who maintain their official home of record or legal residence as Texas are considered to be Texas residents. Independent students, 18 years of age or older, who come from out of state are considered non-residents for tuition purposes as long as they remain in Texas for educational purposes. Any student who has lived outside Texas or who has a possibility of being a non-resident is coded accordingly. After receipt of a completed residency questionnaire, a determination of eligibility to pay in-state tuition will be finalized.

EDUCATIONAL HISTORY
Please reference the Graduate Catalog for more information on admission policies, categories of admission and any documents required.

A. Degree Seeking - You want to seek a master’s degree at SWT.
1. Submit this form (Graduate School Application for Admission).
2. Have two official transcripts mailed directly from each college or university you have attended. (Exception: SWT graduates only need to have two official SWT transcripts sent to the SWT Graduate School if the SWT transcripts lists all college work attempted.)
3. Admission Test Requirements:
   a. M.B.A. and M.Acy. applicants must have an official Graduate Management Admission Test (GMAT) score on file prior to being considered for admission.
   b. All other graduate applicants must have an official Graduate Record Examination (GRE) General score. To determine if you may be eligible to begin studies prior to our receipt of your official GRE, consult the Graduate Catalog or confer with your prospective department.
   c. Foreign students may be required to have other test scores sent: Test of English as a Foreign Language (TOEFL), Test of Spoken English (TSE), or Test of Written English (TWE). Please refer to the Graduate Catalog to see which test(s) will be required.

B. Non-Degree Seeking - You do not want a master’s degree from SWT.
1. Post-Graduate - Certification or Career Ladder.
   a. Submit this form (Graduate School Application for Admission).
   b. Submit one copy of your transcript from the college or university showing your highest degree.
   c. Admission Test Requirements: Some certification programs require applicants to have an official Graduate Record Examination (GRE) General score prior to admission. Please consult the Graduate Catalog or confer with your prospective department.
2. Special Student.
   a. Submit this form (Graduate School Application for Admission).
   b. Complete a Special Student form in person in the SWT Graduate School in advance of registration for each semester you plan to enroll as a special student. Depending on the course(s), you may need to get departmental approval.
3. Visiting Student.
   a. Submit this form (Graduate School Application for Admission).
   b. Have a letter of good standing forwarded to the SWT Graduate School from the graduate dean of the other university. Departmental approval may be required.
Basis of enrollment for which you are applying at this time:

A. If seeking a master's degree at SWT, complete the following (see reverse for approved majors and minors):

- Proposed major: ____________________________
- Specialization (if applicable): ____________________________
- Proposed minor: ____________________________
- Select one: □ Thesis □ Non-Thesis

<table>
<thead>
<tr>
<th>Proposed degree type:</th>
<th>Test</th>
<th>Have you taken</th>
<th>Date taken or planned?</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ MA □ MM</td>
<td>GRE</td>
<td>Yes</td>
<td>General:</td>
</tr>
<tr>
<td>□ MACY □ MPA</td>
<td>GMAT</td>
<td>No</td>
<td>V:</td>
</tr>
<tr>
<td>□ MAG □ MS</td>
<td>TOEFL</td>
<td></td>
<td>Q:</td>
</tr>
<tr>
<td>□ MAIS □ MSCDIS</td>
<td>TWE</td>
<td></td>
<td>A:</td>
</tr>
<tr>
<td>□ MAT □ MSCJ</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ MBA □ MSHP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ MED □ MSIS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ MFA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

B. If not seeking a master's degree, please choose one of the following options:

- Select one: □ Initial certification □ Adding teaching field, endorsement, or delivery system
- □ Changing level of certification □ Professional certification
- □ Career ladder
- □ Special Student (specify area of study): ____________________________
- □ Visiting Student (from which university): ____________________________
  (specify area of study): ____________________________

Whom do we contact in case of an emergency?
Name: ____________________________
Relationship: ____________________________ Telephone: ( )
Address: __________________________________________________________________________________________________

Have you ever been convicted of a felony? □ Yes □ No
If yes, explain: __________________________________________________________________________

I certify that all of the statements on this form are true and complete and that I will inform the SWT Graduate School of any changes which occur in place of residence of myself or any other statements provided. I acknowledge that deliberate omissions or falsifications of information will subject me to the University's disciplinary sanctions and the University reserves the right to request additional information as necessary. Discrimination against or harassment of individuals on the basis of ethnicity, sex, religion, or race are inconsistent with the purposes of Southwest Texas State University.

Applicant's signature: ____________________________ Date: ____________________________

Please complete and submit this form (including all copies) to the SWT Graduate School.

OFFICE USE ONLY

| Fee | BOA (international) GPA (entry) | Decision Date: |
| Residency | BOA (grad adm category) GPA (last 60 undergrad) |
| Ethnicity | BOA (grad degree track) GPA (60 + grad/prof) |
| Visa (Cit.) | BOA (grad adm program) GPA (OU/OG) |
| Tuition | Received Date Application Status: |
| Level | Degree School Special Student Conditional |
| Degree School | Visiting Student Extended |
| Class | Degree Type |
| Degree Type | Graduating Senior Regular |
| Parent Alumni | Degree Date Need Key: |
| Sem. Date: | Major 1 Post-Graduate Refused |
| | Minor 1 Discontinued |
| | Major 2 Graduate Program |
| | Minor 2 Previous Enrollment SWT |
| | Semester Date: |
| | 1 need |
| | 2 insufficient |
| | 3 later |
| | 4 satisfied |
**MAJORS AND MINORS:** You cannot major and minor in the same topic. If you are unable to determine your program of study and/or thesis or non-thesis options, please refer to the Graduate Catalog or contact either the SWT Graduate School or your graduate adviser for more information. It is critical that we know your proposed program, type of degree, and thesis option in order to prepare your individualized program of study.

**MAJOR OR MINOR AND DEGREE CHOICES:**

<table>
<thead>
<tr>
<th>Major/Minor</th>
<th>Thesis Option</th>
<th>Non-Thesis Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Education</td>
<td>MED (T,N)</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>MA (T), MED (N), MS (T,N)</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>MA (T), MED (N), MS (T)</td>
<td></td>
</tr>
<tr>
<td>Computer Science</td>
<td>MA (T,N), MED (N), MS (T,N)</td>
<td></td>
</tr>
<tr>
<td>Counseling and Guidance</td>
<td>MA (T), MED (N)</td>
<td></td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>MSCJ (T,N)</td>
<td></td>
</tr>
<tr>
<td>Educational Administration</td>
<td>MA (T), MED (N)</td>
<td></td>
</tr>
<tr>
<td>Elementary Education</td>
<td>MA (T), MED (N)</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>MA (T), MED (N)</td>
<td></td>
</tr>
<tr>
<td>Computer Science</td>
<td>MAT (N)</td>
<td></td>
</tr>
<tr>
<td>Geography</td>
<td>MAG (T,N)</td>
<td></td>
</tr>
<tr>
<td>German</td>
<td>MAT (N)</td>
<td></td>
</tr>
<tr>
<td>Health Education</td>
<td>MED (N)</td>
<td></td>
</tr>
<tr>
<td>Health Professions--Allied</td>
<td>MSHP (T,N)</td>
<td></td>
</tr>
<tr>
<td>Health &amp; Physical Education</td>
<td>MA (T)</td>
<td></td>
</tr>
<tr>
<td>Music--Performance</td>
<td>MM (N)</td>
<td></td>
</tr>
<tr>
<td>Music--Music Education</td>
<td>MM (N)</td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td>MA (T), MS (T,N)</td>
<td></td>
</tr>
<tr>
<td>Political Science</td>
<td>MA (T), MED (N)</td>
<td></td>
</tr>
<tr>
<td>Reading Education</td>
<td>MED (N)</td>
<td></td>
</tr>
<tr>
<td>Secondary Education</td>
<td>MA (T), MED (N)</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td>MAT (T,N)</td>
<td></td>
</tr>
<tr>
<td>Spanish</td>
<td>MA (T), MAT (N)</td>
<td></td>
</tr>
<tr>
<td>Special Education</td>
<td>MED (N)</td>
<td></td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>MA (T,N)</td>
<td></td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>MA (T,N)</td>
<td></td>
</tr>
</tbody>
</table>

**MAJORS AND DEGREE CHOICES:**

<table>
<thead>
<tr>
<th>Major/Minor</th>
<th>Thesis Option</th>
<th>Non-Thesis Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Education</td>
<td>MED (T,N)</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>MA (T), MED (N), MS (T,N)</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>MA (T), MED (N), MS (T)</td>
<td></td>
</tr>
<tr>
<td>Communication Disorders</td>
<td>MA (T), MSCDIS (N)</td>
<td></td>
</tr>
<tr>
<td>Creative Writing</td>
<td>MFA (T)</td>
<td></td>
</tr>
<tr>
<td>Developmental Education</td>
<td>MA (T)</td>
<td></td>
</tr>
<tr>
<td>Health &amp; Physical Education</td>
<td>MA (T)</td>
<td></td>
</tr>
<tr>
<td>Interdisciplinary Studies--Occupational</td>
<td>MSIS (T,N)</td>
<td></td>
</tr>
<tr>
<td>Management of Vocational/Technical Education</td>
<td>MED (N)</td>
<td></td>
</tr>
<tr>
<td>Public Administration</td>
<td>MPA (N)</td>
<td></td>
</tr>
<tr>
<td>Public Personnel Administration</td>
<td>MED (N)</td>
<td></td>
</tr>
</tbody>
</table>

**CAREER SUPPORT AREAS FOR PUBLIC ADMINISTRATION ONLY:**

- Administration of Allied Health Services
- Administration of Criminal Justice Systems
- General Public Administration
- Government Information Systems
- Human Resources Administration
- International Relations
- Legal & Judicial Administration
- Public Finance Administration
- Public Personnel Administration
- Urban Planning

**MINOR ONLY CHOICES:**

- Integrated Agriculture (Required minor for Agricultural Education)
- Composite Program (minor option for Reading Education)
- Composite Minor (may be used with Secondary Education)
- Developmental Education (minor option with Reading Education, English or Mathematics)
- Methods and Materials (option for Elementary Education)
- Psychology
- Aquatic Biology (minor option for Biology majors only)
- Marine Biology (minor option for Biology majors only)
- Biochemistry (minor option for science majors only)

**KEY**

- T - indicates thesis option.
- N - indicates non-thesis option.
- Reference MINOR ONLY CHOICES.
- Has no minor.
- Must choose either a minor in the sciences or a no minor option.
- Must have a GRE on file before the application will be processed.
- Must have a GMAT on file before the application will be processed.
- Must choose a minor from Health Professions or the Health Professions spilt minor.
- Must choose a minor from the Career Support Area.